START

9613424.0521

B00ZQ4-DAT-162

0043733

DATA CHEM LABORATORIES

A SORENSON COMPANY

APR 1996 RECEIVED EDMC

September 26, 1991

OCT 1991 RECEIVED DAN BRIGHT

REPORT INTRODUCTION
ANALYTICAL COMMENTARY

SUBMITTED TO: Mike Stankovich

SUBMITTED BY: Joseph A. Gress

REFERENCE DATA:

Analysis of: 24 soil samples plus two matrix spikes and two matrix spike duplicates

Method of Analysis: EPA 8240 with modifications

Identification No.: S91-0719-CC

DataChem Laboratory No.: EK 4368 through EK 4395

The above-numbered samples were analyzed for volatile organics using EPA Method 8240 with modifications (SW-846; third edition; September 1986; U.S. Environmental Protection Agency, Office of Solid Waste and Emergency Response).

For the soil samples, five grams of sample was weighed and mixed with five milliliters of water. The water/soil mixture was heated and directly purged onto a Tekmar 2-phase trap then desorbed at 180 degrees centigrade under reverse helium flow. The desorbed organics were separated by a 2m x 2mm I.D. glass column packed with 1% SP-1000 on 60/80 mesh Carbopack B. The column oven was programmed from 45 degrees centigrade (held isothermal for 3 minutes) to 220 degrees centigrade at 8 degrees centigrade per minute. The resulting ions were scanned on a Finnigan 5100 GC/MS/DS from 35 amu to 300 amu every three seconds.

An internal standard method of quantitation was used. Internal standards were added to each sample and standard prior to analysis. Five standards were analyzed as prescribed by the method at 20, 50, 100, 150 and 200 micrograms/kilogram. System Performance Check Compounds were checked for a minimum response factor of 0.300, these compounds are chloromethane, bromoform (can be 0.250), 1,1-dichloroethane, chlorobenzene and 1,1,2,2-tetrachloroethane. Response factors from the initial calibration curve are used to calculate percent relative standard deviation (%RSD) for Calibration Check Compounds. These are toluene, 1,1-dichloroethene, chloroform, 1,2-dichloropropane, ethylbenzene, and

SALT LAKE OFFICE

CINCINNATI OFFICE
4368 GLENDALE-MILFORD ROAD

vinyl chloride, the %RSD must be less than 30%. These Q.C. criteria were met for the initial calibration curve.

Quantitation of each target compound is based on response factors from a 50 ug/KG continuing calibration standard. Before sample analysis can begin, standardization requirements must be met. The response factors of System Performance Check Compounds must meet the minimum criteria of 0.300, except bromoform at 0.250, and the Calibration Check Compounds must be less than 25% difference with the average response from the initial calibration curve. These Q.C. criteria were met for the daily calibration standard.

Tuning and calibration checks were made prior to sample analysis. A reagent blank was also analyzed prior to sample analysis to certify cleanliness of reagents. Before analysis, blanks were analyzed in each sparging unit to verify the cleanliness of the instrument sampling apparatus.

In addition, the following quality assurance procedures were routine; monitoring of internal standard absolute areas and retention times and measurement of surrogate standard recoveries.

DataChem will maintain a complete record of your data on magnetic tape including the ion chromatograms, mass spectra, and verification of compliance with EPA tuning (BFB).

The matrix spike and matrix spike duplicate analyses were performed using samples EK4383 (B00ZR9) and EK4384 (B00ZS0). The spike analytes 1,1-dichloroethene, trichloroethene, benzene, toluene and chlorobenzene were spiked in a 50 ug/KG.

The surrogate recovery for toluene-d8 and the internal standard area for chlorobenzene-d5 in sample EK4383 (B00ZR9) did not meet EPA/CLP acceptance criteria. The matrix spike analysis of this sample serves as reanalysis. All quality control limits for the matrix spike analysis met EPA/CLP acceptance criteria. The three internal standard areas in the matrix spike duplicate analysis were all below EPA/CLP acceptance criteria.

Due to the inconsistency of the analyte recoveries in sample EK4383 (B00ZR9), matrix spike and matrix spike duplicate, it appears that the sample is not a homogeneous soil.

The internal standard areas for 1,4-difluorobenzene and chlorobenzene-d5 in sample EK4384 (B00ZS0) did not meet EPA/CLP acceptance criteria. The matrix spike and matrix spike duplicate analyses serve as reanalysis for this sample.

Joseph A. Gress

9613424.0523

Sample Number
BOOZQ4

VOLATILE ORGANICS ANALYSIS DATA SHEET

(Page 1)

Laboratory Name: DATACHEM LABS
Case No: 0719
Lab Sample ID No: EK4368
QC Report No:
Sample Matrix: SOIL
Contract No: 3534C
Data Release Authorized By:
Date Sample Received: 09/13/91

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared:
Date Analyzed: 09/18/91
Conc/Dil Factor: 1. pH
Percent Moisture: (Not Decanted) 0.0

CAS Number		UG/KG		CAS Number		UG/KG	
74-87-3	Chloromethane	3	U	10061-01-5	cis-1,3-Dichloropropene	2	U
74-83-9	Bromomethane	2	U	79-01-6	Trichloroethene	1	U
75-01-4	Vinyl Chloride	3	U	124-48-1	Dibromochloromethane	1	U
75-00-3	Chloroethane	3	U	79-00-5	1,1,2-Trichloroethane	2	U
75-09-2	Methylene Chloride	3	U	71-43-2	Benzene	1	U
67-64-1	Acetone	16		10061-02-6	Trans-1,3-Dichloroproene	2	U
75-15-0	Carbon Disulfide	2	U	110-75-8	2-Chloroethylvinylether	2	U
75-69-4	Trichlorofluoromethane	2	U	75-25-2	Bromoform	1	U
75-35-4	1,1-Dichloroethene	2	U	74-95-3	Dibromomethane	0.8	U
75-35-3	1,1-Dichloroethane	2	U	764-41-0	Trans-1,4-dichloro-2-butene	1	U
540-59-0	1,2-Dichloroethene (total)	2	U	108-10-1	4-Methyl-2-Pentanone	2	U
67-66-3	Chloroform	2	U	96-18-4	1,2,3-Trichloropropane	1	U
107-06-2	1,2-Dichloroethane	1	U	591-78-6	2-Hexanone	2	U
74-88-4	Iodomethane	2	U	127-18-4	Tetrachloroethene	1	U
107-02-8	Acrolein	2	U	79-34-5	1,1,2,2-Tetrachloroethane	1	U
107-13-1	Acrylonitrile	2	U	97-63-2	Ethyl methacrylate	1	U
78-93-3	2-Butanone	2	U	108-88-3	Toluene	1	U
71-55-6	1,1,1-Trichloroethane	1	U	108-90-7	Chlorobenzene	1	U
56-23-5	Carbon Tetrachloride	1	U	100-41-4	Ethylbenzene	1	U
108-05-4	Vinyl Acetate	3	U	100-42-5	Styrene	2	U
75-27-4	Bromodichloromethane	1	U	1330-20-7	Total Xylenes	0.9	U
78-87-5	1,2-Dichloropropane	1	U				

< - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BOOZQ4

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: 0719 SAS No.: _____ SDG No.: EK4368

Matrix: (soil/water) SOIL Lab Sample ID: EK4368

Sample wt/vol: _____ (g/mL) G Lab File ID: KU09EK4368

Level: (low/med) LOW Date Received: 09/13/91

% Moisture: not dec. 0 Date Analyzed: 09/18/91

Column (pack/cap) PACK Dilution Factor: 1

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

9613424.0525

Sample Number
BOOZQ5

VOLATILE ORGANICS ANALYSIS DATA SHEET
(Page 1)

Laboratory Name: DATACHEM LABS
Lab Sample ID No: EK4369
Sample Matrix: SOIL
Data Release Authorized By:

Case No: 0719
QC Report No:
Contract No: 3534C
Date Sample Received: 09/13/91

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared:
Date Analyzed: 09/19/91
Conc/Dil Factor: 1. pH
Percent Moisture: (Not Decanted) 1.0

CAS Number		UG/KG		CAS Number		UG/KG	
74-87-3	Chloromethane	3	U	10061-01-5	cis-1,3-Dichloropropene	2	U
74-83-9	Bromomethane	2	U	79-01-6	Trichloroethene	1	U
75-01-4	Vinyl Chloride	3	U	124-48-1	Dibromochloromethane	1	U
75-00-3	Chloroethane	3	U	79-00-5	1,1,2-Trichloroethane	2	U
75-09-2	Methylene Chloride	3	U	71-43-2	Benzene	1	U
67-64-1	Acetone	20		10061-02-6	Trans-1,3-Dichloroproene	2	U
75-15-0	Carbon Disulfide	2	U	110-75-8	2-Chloroethylvinylether	2	U
75-69-4	Trichlorofluoromethane	2	U	75-25-2	Bromoform	1	U
75-35-4	1,1-Dichloroethene	2	U	74-95-3	Dibromomethane	0.8	U
75-35-3	1,1-Dichloroethane	2	U	764-41-0	Trans-1,4-dichloro-2-butene	1	U
540-59-0	1,2-Dichloroethene (total)	2	U	108-10-1	4-Methyl-2-Pentanone	3	U
67-66-3	Chloroform	2	U	96-18-4	1,2,3-Trichloropropane	1	U
107-06-2	1,2-Dichloroethane	1	U	591-78-6	2-Hexanone	2	U
74-88-4	Iodomethane	2	U	127-18-4	Tetrachloroethene	1	U
107-02-8	Acrolein	2	U	79-34-5	1,1,2,2-Tetrachloroethane	1	U
107-13-1	Acrylonitrile	2	U	97-63-2	Ethyl methacrylate	1	U
78-93-3	2-Butanone	2	U	108-88-3	Toluene	1	U
71-55-6	1,1,1-Trichloroethane	1	U	108-90-7	Chlorobenzene	1	U
56-23-5	Carbon Tetrachloride	1	U	100-41-4	Ethylbenzene	1	U
108-05-4	Vinyl Acetate	3	U	100-42-5	Styrene	2	U
75-27-4	Bromodichloromethane	1	U	1330-20-7	Total Xylenes	0.9	U
78-87-5	1,2-Dichloropropane	1	U				

< - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

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EPA SAMPLE NO.

BOOZQ5

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: 0719 SAS No.: _____ SDG No.: EK4368

Matrix: (soil/water) SOIL Lab Sample ID: EK4369

Sample wt/vol: _____ (g/mL) G Lab File ID: KU10EK4369

Level: (low/med) LOW Date Received: 09/13/91

% Moisture: not dec. 1 Date Analyzed: 09/19/91

Column (pack/cap) PACK Dilution Factor: 1

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

31

9613424.0527

Sample Number
BOOZQ6

VOLATILE ORGANICS ANALYSIS DATA SHEET

(Page 1)

Laboratory Name: DATACHEM LABS
Case No: 0719
Lab Sample ID No: EK4370
QC Report No:
Sample Matrix: SOIL
Contract No: 3534C
Data Release Authorized By:
Date Sample Received: 09/13/91

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared:
Date Analyzed: 09/20/91
Conc/Dil Factor: 1. pH
Percent Moisture: (Not Decanted) 1.0

CAS Number		UG/KG		CAS Number		UG/KG	
74-87-3	Chloromethane	3	U	10061-01-5	cis-1,3-Dichloropropene	2	U
74-83-9	Bromomethane	2	U	79-01-6	Trichloroethene	1	U
75-01-4	Vinyl Chloride	3	U	124-48-1	Dibromochloromethane	1	U
75-00-3	Chloroethane	3	U	79-00-5	1,1,2-Trichloroethane	2	U
75-09-2	Methylene Chloride	3	U	71-43-2	Benzene	1	U
67-64-1	Acetone	3	B	10061-02-6	Trans-1,3-Dichloroproene	2	U
75-15-0	Carbon Disulfide	2	U	110-75-8	2-Chloroethylvinylether	2	U
75-69-4	Trichlorofluoromethane	2	U	75-25-2	Bromoform	1	U
75-35-4	1,1-Dichloroethene	2	U	74-95-3	Dibromomethane	0.8	U
75-35-3	1,1-Dichloroethane	2	U	764-41-0	Trans-1,4-dichloro-2-butene	1	U
540-59-0	1,2-Dichloroethene (total)	2	U	108-10-1	4-Methyl-2-Pentanone	3	U
67-66-3	Chloroform	2	U	96-18-4	1,2,3-Trichloropropane	1	U
107-06-2	1,2-Dichloroethane	1	U	591-78-6	2-Hexanone	2	U
74-88-4	Iodomethane	2	U	127-18-4	Tetrachloroethene	1	U
107-02-8	Acrolein	2	U	79-34-5	1,1,2,2-Tetrachloroethane	1	U
107-13-1	Acrylonitrile	2	U	97-63-2	Ethyl methacrylate	1	U
78-93-3	2-Butanone	2	U	108-88-3	Toluene	1	U
71-55-6	1,1,1-Trichloroethane	1	U	108-90-7	Chlorobenzene	1	U
56-23-5	Carbon Tetrachloride	1	U	100-41-4	Ethylbenzene	1	U
108-05-4	Vinyl Acetate	3	U	100-42-5	Styrene	2	U
75-27-4	Bromodichloromethane	1	U	1330-20-7	Total Xylenes	0.9	U
78-87-5	1,2-Dichloropropane	1	U				

B - Compound was detected in the QC blank.
< - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

9613424.0528
1E

EPA SAMPLE NO.

BOOZQ6

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: 0719 SAS No.: _____ SDG No.: EK4368

Matrix: (soil/water) SOIL Lab Sample ID: EK4370

Sample wt/vol: _____ (g/mL) G Lab File ID: KU35EK4370

Level: (low/med) LOW Date Received: 09/13/91

% Moisture: not dec. 1 Date Analyzed: 09/20/91

Column (pack/cap) PACK Dilution Factor: 1

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

9613424.0529

Sample Number
B00ZQ7

VOLATILE ORGANICS ANALYSIS DATA SHEET

(Page 1)

Laboratory Name: DATACHEM LABS
Case No: 0719
Lab Sample ID No: EK4371
QC Report No:
Sample Matrix: SOIL
Contract No: 3534C
Data Release Authorized By:
Date Sample Received: 09/13/91

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared:
Date Analyzed: 09/20/91
Conc/Dil Factor: 1. pH
Percent Moisture: (Not Decanted) 1.0

CAS Number		UG/KG		CAS Number		UG/KG	
74-87-3	Chloromethane	3	U	10061-01-5	cis-1,3-Dichloropropene	2	U
74-83-9	Bromomethane	2	U	79-01-6	Trichloroethene	1	U
75-01-4	Vinyl Chloride	3	U	124-48-1	Dibromochloromethane	1	U
75-00-3	Chloroethane	3	U	79-00-5	1,1,2-Trichloroethane	2	U
75-09-2	Methylene Chloride	3	U	71-43-2	Benzene	1	U
67-64-1	Acetone	11	B	10061-02-6	Trans-1,3-Dichloropropene	2	U
75-15-0	Carbon Disulfide	2	U	110-75-8	2-Chloroethylvinylether	2	U
75-69-4	Trichlorofluoromethane	2	U	75-25-2	Bromoform	1	U
75-35-4	1,1-Dichloroethene	2	U	74-95-3	Dibromomethane	0.8	U
75-35-3	1,1-Dichloroethane	2	U	764-41-0	Trans-1,4-dichloro-2-butene	1	U
540-59-0	1,2-Dichloroethene (total)	2	U	108-10-1	4-Methyl-2-Pentanone	3	U
67-66-3	Chloroform	2	U	96-18-4	1,2,3-Trichloropropane	1	U
107-06-2	1,2-Dichloroethane	1	U	591-78-6	2-Hexanone	2	U
74-88-4	Iodomethane	2	U	127-18-4	Tetrachloroethene	1	U
107-02-8	Acrolein	2	U	79-34-5	1,1,2,2-Tetrachloroethane	1	U
107-13-1	Acrylonitrile	2	U	97-63-2	Ethyl methacrylate	1	U
78-93-3	2-Butanone	2	U	108-88-3	Toluene	1	U
71-55-6	1,1,1-Trichloroethane	1	U	108-90-7	Chlorobenzene	1	U
56-23-5	Carbon Tetrachloride	1	U	100-41-4	Ethylbenzene	1	U
108-05-4	Vinyl Acetate	3	U	100-42-5	Styrene	2	U
75-27-4	Bromodichloromethane	1	U	1330-20-7	Total Xylenes	0.9	U
78-87-5	1,2-Dichloropropane	1	U				

B - Compound was detected in the QC blank.
< - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

9613424.0530

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BOOZQ7

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: 0719 SAS No.: _____ SDG No.: EK4368

Matrix: (soil/water) SOIL Lab Sample ID: EK4371

Sample wt/vol: _____ (g/mL) G Lab File ID: KU36EK4371

Level: (low/med) LOW Date Received: 09/13/91

% Moisture: not dec. 1 Date Analyzed: 09/20/91

Column (pack/cap) PACK Dilution Factor: 1

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

9613424.0531

Sample Number
BOOZQ8

VOLATILE ORGANICS ANALYSIS DATA SHEET

(Page 1)

Laboratory Name: DATACHEM LABS
Case No: 0719
Lab Sample ID No: EK4372
QC Report No:
Sample Matrix: SOIL
Contract No: 3534C
Data Release Authorized By:
Date Sample Received: 09/13/91

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared:
Date Analyzed: 09/20/91
Conc/Dil Factor: 1. pH
Percent Moisture: (Not Decanted) 1.0

CAS Number		UG/KG		CAS Number		UG/KG	
74-87-3	Chloromethane	3	U	10061-01-5	cis-1,3-Dichloropropene	2	U
74-83-9	Bromomethane	2	U	79-01-6	Trichloroethene	1	U
75-01-4	Vinyl Chloride	3	U	124-48-1	Dibromochloromethane	1	U
75-00-3	Chloroethane	3	U	79-00-5	1,1,2-Trichloroethane	2	U
75-09-2	Methylene Chloride	3	U	71-43-2	Benzene	1	U
67-64-1	Acetone	37	B	10061-02-6	Trans-1,3-Dichloroproene	2	U
75-15-0	Carbon Disulfide	2	U	110-75-8	2-Chloroethylvinylether	2	U
75-69-4	Trichlorofluoromethane	2	U	75-25-2	Bromoform	1	U
75-35-4	1,1-Dichloroethene	2	U	74-95-3	Dibromomethane	0.8	U
75-35-3	1,1-Dichloroethane	2	U	764-41-0	Trans-1,4-dichloro-2-butene	1	U
540-59-0	1,2-Dichloroethene (total)	2	U	108-10-1	4-Methyl-2-Pentanone	3	U
67-66-3	Chloroform	2	U	96-18-4	1,2,3-Trichloropropane	1	U
107-06-2	1,2-Dichloroethane	1	U	591-78-6	2-Hexanone	2	U
74-88-4	Iodomethane	2	U	127-18-4	Tetrachloroethene	1	U
107-02-8	Acrolein	2	U	79-34-5	1,1,2,2-Tetrachloroethane	1	U
107-13-1	Acrylonitrile	2	U	97-63-2	Ethyl methacrylate	1	U
78-93-3	2-Butanone	2	U	108-88-3	Toluene	1	J
71-55-6	1,1,1-Trichloroethane	1	U	108-90-7	Chlorobenzene	1	U
56-23-5	Carbon Tetrachloride	1	U	100-41-4	Ethylbenzene	1	U
108-05-4	Vinyl Acetate	3	U	100-42-5	Styrene	2	U
75-27-4	Bromodichloromethane	1	U	1330-20-7	Total Xylenes	0.9	U
78-87-5	1,2-Dichloropropane	1	U				

B - Compound was detected in the QC blank.
= - Reported value is less than the detection limit.
< - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

9613424.0532

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BOOZQ8

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: 0719 SAS No.: _____ SDG No.: EK4368

Matrix: (soil/water) SOIL Lab Sample ID: EK4372

Sample wt/vol: _____ (g/mL) G Lab File ID: KU37EK4372

Level: (low/med) LOW Date Received: 09/13/91

% Moisture: not dec. 1 Date Analyzed: 09/20/91

Column (pack/cap) PACK Dilution Factor: 1

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

9613424.0533

Sample Number
BOOZQ9

VOLATILE ORGANICS ANALYSIS DATA SHEET
(Page 1)

Laboratory Name: DATACHEM LABS
Case No: 0719
Lab Sample ID No: EK4373
QC Report No:
Sample Matrix: SOIL
Contract No: 3534C
Data Release Authorized By:
Date Sample Received: 09/13/91

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared:
Date Analyzed: 09/20/91
Conc/Dil Factor: 1. pH
Percent Moisture: (Not Decanted) 1.0

CAS Number		UG/KG		CAS Number		UG/KG	
74-87-3	Chloromethane	3	U	10061-01-5	cis-1,3-Dichloropropene	2	U
74-83-9	Bromomethane	2	U	79-01-6	Trichloroethene	1	U
75-01-4	Vinyl Chloride	3	U	124-48-1	Dibromochloromethane	1	U
75-00-3	Chloroethane	3	U	79-00-5	1,1,2-Trichloroethane	2	U
75-09-2	Methylene Chloride	3	U	71-43-2	Benzene	1	U
67-64-1	Acetone	13	B	10061-02-6	Trans-1,3-Dichloroproene	2	U
75-15-0	Carbon Disulfide	2	U	110-75-8	2-Chloroethylvinylether	2	U
75-69-4	Trichlorofluoromethane	2	U	75-25-2	Bromoform	1	U
75-35-4	1,1-Dichloroethene	2	U	74-95-3	Dibromomethane	0.8	U
75-35-3	1,1-Dichloroethane	2	U	764-41-0	Trans-1,4-dichloro-2-butene	1	U
540-59-0	1,2-Dichloroethene (total)	2	U	108-10-1	4-Methyl-2-Pentanone	3	U
67-66-3	Chloroform	2	U	96-18-4	1,2,3-Trichloropropane	1	U
107-06-2	1,2-Dichloroethane	1	U	591-78-6	2-Hexanone	2	U
74-88-4	Iodomethane	2	U	127-18-4	Tetrachloroethene	1	U
107-02-8	Acrolein	2	U	79-34-5	1,1,2,2-Tetrachloroethane	1	U
107-13-1	Acrylonitrile	2	U	97-63-2	Ethyl methacrylate	1	U
78-93-3	2-Butanone	2	U	108-88-3	Toluene	1	U
71-55-6	1,1,1-Trichloroethane	1	U	108-90-7	Chlorobenzene	1	U
56-23-5	Carbon Tetrachloride	1	U	100-41-4	Ethylbenzene	1	U
108-05-4	Vinyl Acetate	3	U	100-42-5	Styrene	2	U
75-27-4	Bromodichloromethane	1	U	1330-20-7	Total Xylenes	0.9	U
78-87-5	1,2-Dichloropropane	1	U				

B - Compound was detected in the QC blank.
< - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

9613424.0534
1E

EPA SAMPLE NO.

BOOZQ9

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: 0719 SAS No.: _____ SDG No.: EK4368

Matrix: (soil/water) SOIL Lab Sample ID: EK4373

Sample wt/vol: _____ (g/mL) G Lab File ID: KU38EK4373

Level: (low/med) LOW Date Received: 09/13/91

% Moisture: not dec. 1 Date Analyzed: 09/20/91

Column (pack/cap) PACK Dilution Factor: 1

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

9613424.0535

Sample Number
BOOZR0

VOLATILE ORGANICS ANALYSIS DATA SHEET
(Page 1)

Laboratory Name: DATACHEM LABS
Lab Sample ID No: EK4374
Sample Matrix: SOIL
Data Release Authorized By: _____

Case No: 0719
QC Report No: _____
Contract No: 3534C
Date Sample Received: 09/13/91

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: _____
Date Analyzed: 09/20/91
Conc/Dil Factor: 1. pH _____
Percent Moisture: (Not Decanted) 0.0

CAS Number		UG/KG		CAS Number		UG/KG	
74-87-3	Chloromethane	3	U	10061-01-5	cis-1,3-Dichloropropene	2	U
74-83-9	Bromomethane	2	U	79-01-6	Trichloroethene	1	U
75-01-4	Vinyl Chloride	3	U	124-48-1	Dibromochloromethane	1	U
75-00-3	Chloroethane	3	U	79-00-5	1,1,2-Trichloroethane	2	U
75-09-2	Methylene Chloride	3	U	71-43-2	Benzene	1	U
67-64-1	Acetone	8	B	10061-02-6	Trans-1,3-Dichloroproene	2	U
75-15-0	Carbon Disulfide	2	U	110-75-8	2-Chloroethylvinylether	2	U
75-69-4	Trichlorofluoromethane	2	U	75-25-2	Bromoform	1	U
75-35-4	1,1-Dichloroethene	2	U	74-95-3	Dibromomethane	0.8	U
75-35-3	1,1-Dichloroethane	2	U	764-41-0	Trans-1,4-dichloro-2-butene	1	U
540-59-0	1,2-Dichloroethene (total)	2	U	108-10-1	4-Methyl-2-Pentanone	2	U
67-66-3	Chloroform	2	U	96-18-4	1,2,3-Trichloropropane	1	U
107-06-2	1,2-Dichloroethane	1	U	591-78-6	2-Hexanone	2	U
74-88-4	Iodomethane	2	U	127-18-4	Tetrachloroethene	1	U
107-02-8	Acrolein	2	U	79-34-5	1,1,2,2-Tetrachloroethane	1	U
107-13-1	Acrylonitrile	2	U	97-63-2	Ethyl methacrylate	1	U
78-93-3	2-Butanone	2	U	108-88-3	Toluene	1	J
71-55-6	1,1,1-Trichloroethane	1	U	108-90-7	Chlorobenzene	1	U
56-23-5	Carbon Tetrachloride	1	U	100-41-4	Ethylbenzene	1	U
108-05-4	Vinyl Acetate	3	U	100-42-5	Styrene	2	U
75-27-4	Bromodichloromethane	1	U	1330-20-7	Total Xylenes	0.9	U
78-87-5	1,2-Dichloropropane	1	U				

B - Compound was detected in the QC blank.
= - Reported value is less than the detection limit.
< - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

9613424.0536
1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BOOZR0

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: 0719 SAS No.: _____ SDG No.: EK4368

Matrix: (soil/water) SOIL Lab Sample ID: EK4374

Sample wt/vol: _____ (g/mL) G Lab File ID: KU39EK4374

Level: (low/med) LOW Date Received: 09/13/91

% Moisture: not dec. 0 Date Analyzed: 09/20/91

Column (pack/cap) PACK Dilution Factor: 1

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

9613424.0537

Sample Number
BOOZR1

VOLATILE ORGANICS ANALYSIS DATA SHEET
(Page 1)

Laboratory Name: DATACHEM LABS
Lab Sample ID No: EK4375
Sample Matrix: SOIL
Data Release Authorized By: _____

Case No: 0719
QC Report No: _____
Contract No: 3534C
Date Sample Received: 09/13/91

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: _____
Date Analyzed: 09/19/91
Conc/Dil Factor: 1. pH _____
Percent Moisture: (Not Decanted) 1.0

CAS Number		UG/KG		CAS Number		UG/KG	
74-87-3	Chloromethane	3	U	10061-01-5	cis-1,3-Dichloropropene	2	U
74-83-9	Bromomethane	2	U	79-01-6	Trichloroethene	1	U
75-01-4	Vinyl Chloride	3	U	124-48-1	Dibromochloromethane	1	U
75-00-3	Chloroethane	3	U	79-00-5	1,1,2-Trichloroethane	2	U
75-09-2	Methylene Chloride	3	U	71-43-2	Benzene	1	U
67-64-1	Acetone	11	B	10061-02-6	Trans-1,3-Dichloroproene	2	U
75-15-0	Carbon Disulfide	2	U	110-75-8	2-Chloroethylvinylether	2	U
75-69-4	Trichlorofluoromethane	2	U	75-25-2	Bromoform	1	U
75-35-4	1,1-Dichloroethene	2	U	74-95-3	Dibromomethane	0.8	U
75-35-3	1,1-Dichloroethane	2	U	764-41-0	Trans-1,4-dichloro-2-butene	1	U
540-59-0	1,2-Dichloroethene (total)	2	U	108-10-1	4-Methyl-2-Pentanone	3	U
67-66-3	Chloroform	2	U	96-18-4	1,2,3-Trichloropropane	1	U
107-06-2	1,2-Dichloroethane	1	U	591-78-6	2-Hexanone	2	U
74-88-4	Iodomethane	2	U	127-18-4	Tetrachloroethene	1	U
107-02-8	Acrolein	2	U	79-34-5	1,1,2,2-Tetrachloroethane	1	U
107-13-1	Acrylonitrile	2	U	97-63-2	Ethyl methacrylate	1	U
78-93-3	2-Butanone	2	U	108-88-3	Toluene	1	U
71-55-6	1,1,1-Trichloroethane	1	U	108-90-7	Chlorobenzene	1	U
56-23-5	Carbon Tetrachloride	1	U	100-41-4	Ethylbenzene	1	U
108-05-4	Vinyl Acetate	3	U	100-42-5	Styrene	2	U
75-27-4	Bromodichloromethane	1	U	1330-20-7	Total Xylenes	0.9	U
78-87-5	1,2-Dichloropropane	1	U				

B - Compound was detected in the QC blank.
< - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

9613424.0538

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BOOZR1

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: 0719 SAS No.: _____ SDG No.: EK4368

Matrix: (soil/water) SOIL Lab Sample ID: EK4375

Sample wt/vol: _____ (g/mL) G Lab File ID: KU14EK4375

Level: (low/med) LOW Date Received: 09/13/91

% Moisture: not dec. 1 Date Analyzed: 09/19/91

Column (pack/cap) PACK Dilution Factor: 1

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.

9613424.0539

Sample Number
BOOZR2

VOLATILE ORGANICS ANALYSIS DATA SHEET
(Page 1)

Laboratory Name: DATACHEM LABS
Case No: 0719
Lab Sample ID No: EK4376
QC Report No:
Sample Matrix: SOIL
Contract No: 3534C
Data Release Authorized By:
Date Sample Received: 09/13/91

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared:
Date Analyzed: 09/19/91
Conc/Dil Factor: 1. pH
Percent Moisture: (Not Decanted) 1.0

CAS Number		UG/KG		CAS Number		UG/KG	
74-87-3	Chloromethane	3	U	10061-01-5	cis-1,3-Dichloropropene	2	U
74-83-9	Bromomethane	2	U	79-01-6	Trichloroethene	1	U
75-01-4	Vinyl Chloride	3	U	124-48-1	Dibromochloromethane	1	U
75-00-3	Chloroethane	3	U	79-00-5	1,1,2-Trichloroethane	2	U
75-09-2	Methylene Chloride	3	U	71-43-2	Benzene	1	U
67-64-1	Acetone	15	B	10061-02-6	Trans-1,3-Dichloroproene	2	U
75-15-0	Carbon Disulfide	2	U	110-75-8	2-Chloroethylvinylether	2	U
75-69-4	Trichlorofluoromethane	2	U	75-25-2	Bromoform	1	U
75-35-4	1,1-Dichloroethene	2	U	74-95-3	Dibromomethane	0.8	U
75-35-3	1,1-Dichloroethane	2	U	764-41-0	Trans-1,4-dichloro-2-butene	1	U
540-59-0	1,2-Dichloroethene (total)	2	U	108-10-1	4-Methyl-2-Pentanone	3	U
67-66-3	Chloroform	2	U	96-18-4	1,2,3-Trichloropropane	1	U
107-06-2	1,2-Dichloroethane	1	U	591-78-6	2-Hexanone	7	
74-88-4	Iodomethane	2	U	127-18-4	Tetrachloroethene	1	U
107-02-8	Acrolein	2	U	79-34-5	1,1,2,2-Tetrachloroethane	1	U
107-13-1	Acrylonitrile	2	U	97-63-2	Ethyl methacrylate	1	U
78-93-3	2-Butanone	2	U	108-88-3	Toluene	1	U
71-55-6	1,1,1-Trichloroethane	1	U	108-90-7	Chlorobenzene	1	U
56-23-5	Carbon Tetrachloride	1	U	100-41-4	Ethylbenzene	1	U
108-05-4	Vinyl Acetate	3	U	100-42-5	Styrene	2	U
75-27-4	Bromodichloromethane	1	U	1330-20-7	Total Xylenes	0.9	U
78-87-5	1,2-Dichloropropane	1	U				

B - Compound was detected in the QC blank.
< - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

9613424.0540

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BOOZR2

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: 0719 SAS No.: _____ SDG No.: EK4368

Matrix: (soil/water) SOIL Lab Sample ID: EK4376

Sample wt/vol: _____ (g/mL) G Lab File ID: KU15EK4376

Level: (low/med) LOW Date Received: 09/13/91

% Moisture: not dec. 1 Date Analyzed: 09/19/91

Column (pack/cap) PACK Dilution Factor: 1

Number TICs found: 1

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 928-68-7	2-HEPTANONE, 6-METHYL	26.91	13	J

9613424.0541

Sample Number
BOOZR3

VOLATILE ORGANICS ANALYSIS DATA SHEET
(Page 1)

Laboratory Name: DATACHEM LABS
Lab Sample ID No: EK4377
Sample Matrix: SOIL
Data Release Authorized By: _____

Case No: 0719
QC Report No: _____
Contract No: 3534C
Date Sample Received: 09/13/91

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: _____
Date Analyzed: 09/20/91
Conc/Dil Factor: 1. pH _____
Percent Moisture: (Not Decanted) 1.0

CAS Number		UG/KG		CAS Number		UG/KG	
74-87-3	Chloromethane	3	U	10061-01-5	cis-1,3-Dichloropropene	2	U
74-83-9	Bromomethane	2	U	79-01-6	Trichloroethene	1	U
75-01-4	Vinyl Chloride	3	U	124-48-1	Dibromochloromethane	1	U
75-00-3	Chloroethane	3	U	79-00-5	1,1,2-Trichloroethane	2	U
75-09-2	Methylene Chloride	3	U	71-43-2	Benzene	1	U
67-64-1	Acetone	10	B	10061-02-6	Trans-1,3-Dichloroproene	2	U
75-15-0	Carbon Disulfide	2	U	110-75-8	2-Chloroethylvinylether	2	U
75-69-4	Trichlorofluoromethane	2	U	75-25-2	Bromoform	1	U
75-35-4	1,1-Dichloroethene	2	U	74-95-3	Dibromomethane	0.8	U
75-35-3	1,1-Dichloroethane	2	U	764-41-0	Trans-1,4-dichloro-2-butene	1	U
540-59-0	1,2-Dichloroethene (total)	2	U	108-10-1	4-Methyl-2-Pentanone	3	U
67-66-3	Chloroform	2	U	96-18-4	1,2,3-Trichloropropane	1	U
107-06-2	1,2-Dichloroethane	1	U	591-78-6	2-Hexanone	2	U
74-88-4	Iodomethane	2	U	127-18-4	Tetrachloroethene	1	U
107-02-8	Acrolein	2	U	79-34-5	1,1,2,2-Tetrachloroethane	1	U
107-13-1	Acrylonitrile	2	U	97-63-2	Ethyl methacrylate	1	U
78-93-3	2-Butanone	2	U	108-88-3	Toluene	0.9	J
71-55-6	1,1,1-Trichloroethane	1	U	108-90-7	Chlorobenzene	1	U
56-23-5	Carbon Tetrachloride	1	U	100-41-4	Ethylbenzene	1	U
108-05-4	Vinyl Acetate	3	U	100-42-5	Styrene	2	U
75-27-4	Bromodichloromethane	1	U	1330-20-7	Total Xylenes	0.9	U
78-87-5	1,2-Dichloropropane	1	U				

B - Compound was detected in the QC blank.
= - Reported value is less than the detection limit.
< - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

9613424.0542
1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B00ZR3

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: 0719 SAS No.: _____ SDG No.: EK4368

Matrix: (soil/water) SOIL Lab Sample ID: EK4377

Sample wt/vol: _____ (g/mL) G Lab File ID: KU40EK4377

Level: (low/med) LOW Date Received: 09/13/91

% Moisture: not dec. 1 Date Analyzed: 09/20/91

Column (pack/cap) PACK Dilution Factor: 1

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

9613424.0543

Sample Number
B0OZR4

VOLATILE ORGANICS ANALYSIS DATA SHEET
(Page 1)

Laboratory Name: DATACHEM LABS
Lab Sample ID No: EK4378
Sample Matrix: SOIL
Data Release Authorized By: _____

Case No: 0719
QC Report No: _____
Contract No: 3534C
Date Sample Received: 09/13/91

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: _____
Date Analyzed: 09/19/91
Conc/Dil Factor: 1. pH _____
Percent Moisture: (Not Decanted) 1.0

CAS Number		UG/KG		CAS Number		UG/KG	
74-87-3	Chloromethane	3	U	10061-01-5	cis-1,3-Dichloropropene	2	U
74-83-9	Bromomethane	2	U	79-01-6	Trichloroethene	1	U
75-01-4	Vinyl Chloride	3	U	124-48-1	Dibromochloromethane	1	U
75-00-3	Chloroethane	3	U	79-00-5	1,1,2-Trichloroethane	2	U
75-09-2	Methylene Chloride	3	U	71-43-2	Benzene	1	U
67-64-1	Acetone	15	B	10061-02-6	Trans-1,3-Dichloroproene	2	U
75-15-0	Carbon Disulfide	2	U	110-75-8	2-Chloroethylvinylether	2	U
75-69-4	Trichlorofluoromethane	2	U	75-25-2	Bromoform	1	U
75-35-4	1,1-Dichloroethene	2	U	74-95-3	Dibromomethane	0.8	U
75-35-3	1,1-Dichloroethane	2	U	764-41-0	Trans-1,4-dichloro-2-butene	1	U
540-59-0	1,2-Dichloroethene (total)	2	U	108-10-1	4-Methyl-2-Pentanone	3	U
67-66-3	Chloroform	2	U	96-18-4	1,2,3-Trichloropropane	1	U
107-06-2	1,2-Dichloroethane	1	U	591-78-6	2-Hexanone	2	U
74-88-4	Iodomethane	2	U	127-18-4	Tetrachloroethene	1	U
107-02-8	Acrolein	2	U	79-34-5	1,1,2,2-Tetrachloroethane	1	U
107-13-1	Acrylonitrile	2	U	97-63-2	Ethyl methacrylate	1	U
78-93-3	2-Butanone	2	U	108-88-3	Toluene	1	U
71-55-6	1,1,1-Trichloroethane	1	U	108-90-7	Chlorobenzene	1	U
56-23-5	Carbon Tetrachloride	1	U	100-41-4	Ethylbenzene	1	U
108-05-4	Vinyl Acetate	3	U	100-42-5	Styrene	2	U
75-27-4	Bromodichloromethane	1	U	1330-20-7	Total Xylenes	0.9	U
78-87-5	1,2-Dichloropropane	1	U				

B - Compound was detected in the QC blank.
< - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

9613424 0544
1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BOOZR4

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: 0719 SAS No.: _____ SDG No.: EK4368

Matrix: (soil/water) SOIL Lab Sample ID: EK4378

Sample wt/vol: _____ (g/mL) G Lab File ID: KU17EK4378

Level: (low/med) LOW Date Received: 09/13/91

% Moisture: not dec. 1 Date Analyzed: 09/19/91

Column (pack/cap) PACK Dilution Factor: 1

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

9613424.0545

Sample Number
BOOZR5

VOLATILE ORGANICS ANALYSIS DATA SHEET

(Page 1)

Laboratory Name: DATACHEM LABS
Case No: 0719
Lab Sample ID No: EK4379
QC Report No:
Sample Matrix: SOIL
Contract No: 3534C
Data Release Authorized By:
Date Sample Received: 09/13/91

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared:
Date Analyzed: 09/20/91
Conc/Dil Factor: 1. pH
Percent Moisture: (Not Decanted) 1.0

CAS Number		UG/KG		CAS Number		UG/KG	
74-87-3	Chloromethane	3	U	10061-01-5	cis-1,3-Dichloropropene	2	U
74-83-9	Bromomethane	2	U	79-01-6	Trichloroethene	1	U
75-01-4	Vinyl Chloride	3	U	124-48-1	Dibromochloromethane	1	U
75-00-3	Chloroethane	3	U	79-00-5	1,1,2-Trichloroethane	2	U
75-09-2	Methylene Chloride	3	U	71-43-2	Benzene	1	U
67-64-1	Acetone	9	B	10061-02-6	Trans-1,3-Dichloroproene	2	U
75-15-0	Carbon Disulfide	2	U	110-75-8	2-Chloroethylvinylether	2	U
75-69-4	Trichlorofluoromethane	2	U	75-25-2	Bromoform	1	U
75-35-4	1,1-Dichloroethene	2	U	74-95-3	Dibromomethane	0.8	U
75-35-3	1,1-Dichloroethane	2	U	764-41-0	Trans-1,4-dichloro-2-butene	1	U
540-59-0	1,2-Dichloroethene (total)	2	U	108-10-1	4-Methyl-2-Pentanone	3	U
67-66-3	Chloroform	2	U	96-18-4	1,2,3-Trichloropropane	1	U
107-06-2	1,2-Dichloroethane	1	U	591-78-6	2-Hexanone	2	U
74-88-4	Iodomethane	2	U	127-18-4	Tetrachloroethene	1	U
107-02-8	Acrolein	2	U	79-34-5	1,1,2,2-Tetrachloroethane	1	U
107-13-1	Acrylonitrile	2	U	97-63-2	Ethyl methacrylate	1	U
78-93-3	2-Butanone	2	U	108-88-3	Toluene	1	J
71-55-6	1,1,1-Trichloroethane	1	U	108-90-7	Chlorobenzene	1	U
56-23-5	Carbon Tetrachloride	1	U	100-41-4	Ethylbenzene	1	U
108-05-4	Vinyl Acetate	3	U	100-42-5	Styrene	2	U
75-27-4	Bromodichloromethane	1	U	1330-20-7	Total Xylenes	0.9	U
78-87-5	1,2-Dichloropropane	1	U				

B - Compound was detected in the QC blank.
= - Reported value is less than the detection limit.
< - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

9613424.0546
1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BOOZR5

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: 0719 SAS No.: _____ SDG No.: EK4368

Matrix: (soil/water) SOIL Lab Sample ID: EK4379

Sample wt/vol: _____ (g/mL) G Lab File ID: KU41EK4379

Level: (low/med) LOW Date Received: 09/13/91

% Moisture: not dec. 1 Date Analyzed: 09/20/91

Column (pack/cap) PACK Dilution Factor: 1

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

9613424.0547

Sample Number
BOOZR6

VOLATILE ORGANICS ANALYSIS DATA SHEET

(Page 1)

Laboratory Name: DATACHEM LABS
Case No: 0719
Lab Sample ID No: EK4380
QC Report No:
Sample Matrix: SOIL
Contract No: 3534C
Data Release Authorized By:
Date Sample Received: 09/13/91

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared:
Date Analyzed: 09/19/91
Conc/Dil Factor: 1. pH
Percent Moisture: (Not Decanted) 0.0

CAS Number		UG/KG		CAS Number		UG/KG	
74-87-3	Chloromethane	3	U	10061-01-5	cis-1,3-Dichloropropene	2	U
74-83-9	Bromomethane	2	U	79-01-6	Trichloroethene	1	U
75-01-4	Vinyl Chloride	3	U	124-48-1	Dibromochloromethane	1	U
75-00-3	Chloroethane	3	U	79-00-5	1,1,2-Trichloroethane	2	U
75-09-2	Methylene Chloride	3	U	71-43-2	Benzene	1	U
67-64-1	Acetone	11	B	10061-02-6	Trans-1,3-Dichloroproene	2	U
75-15-0	Carbon Disulfide	2	U	110-75-8	2-Chloroethylvinylether	2	U
75-69-4	Trichlorofluoromethane	2	U	75-25-2	Bromoform	1	U
75-35-4	1,1-Dichloroethene	2	U	74-95-3	Dibromomethane	0.8	U
75-35-3	1,1-Dichloroethane	2	U	764-41-0	Trans-1,4-dichloro-2-butene	1	U
540-59-0	1,2-Dichloroethene (total)	2	U	108-10-1	4-Methyl-2-Pentanone	2	U
67-66-3	Chloroform	2	U	96-18-4	1,2,3-Trichloropropane	1	U
107-06-2	1,2-Dichloroethane	1	U	591-78-6	2-Hexanone	2	U
74-88-4	Iodomethane	2	U	127-18-4	Tetrachloroethene	1	U
107-02-8	Acrolein	2	U	79-34-5	1,1,2,2-Tetrachloroethane	1	U
107-13-1	Acrylonitrile	2	U	97-63-2	Ethyl methacrylate	1	U
78-93-3	2-Butanone	2	U	108-88-3	Toluene	1	U
71-55-6	1,1,1-Trichloroethane	1	U	108-90-7	Chlorobenzene	1	U
56-23-5	Carbon Tetrachloride	1	U	100-41-4	Ethylbenzene	1	U
108-05-4	Vinyl Acetate	3	U	100-42-5	Styrene	2	U
75-27-4	Bromodichloromethane	1	U	1330-20-7	Total Xylenes	0.9	U
78-87-5	1,2-Dichloropropane	1	U				

B - Compound was detected in the QC blank.
< - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

9613424_0548

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BOOZR6

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: 0719 SAS No.: _____ SDG No.: EK4368

Matrix: (soil/water) SOIL Lab Sample ID: EK4380

Sample wt/vol: _____ (g/mL) G Lab File ID: KU19EK4380

Level: (low/med) LOW Date Received: 09/13/91

% Moisture: not dec. 0 Date Analyzed: 09/19/91

Column (pack/cap) PACK Dilution Factor: 1

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

9613424.0549

Sample Number
BOOZR7

VOLATILE ORGANICS ANALYSIS DATA SHEET

(Page 1)

Laboratory Name: DATACHEM LABS
Case No: 0719
Lab Sample ID No: EK4381
QC Report No:
Sample Matrix: SOIL
Contract No: 3534C
Data Release Authorized By:
Date Sample Received: 09/13/91

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared:
Date Analyzed: 09/19/91
Conc/Dil Factor: 1. pH
Percent Moisture: (Not Decanted) 1.0

CAS Number		UG/KG		CAS Number		UG/KG	
74-87-3	Chloromethane	3	U	10061-01-5	cis-1,3-Dichloropropene	2	U
74-83-9	Bromomethane	2	U	79-01-6	Trichloroethene	1	U
75-01-4	Vinyl Chloride	3	U	124-48-1	Dibromochloromethane	1	U
75-00-3	Chloroethane	3	U	79-00-5	1,1,2-Trichloroethane	2	U
75-09-2	Methylene Chloride	3	U	71-43-2	Benzene	1	U
67-64-1	Acetone	30	B	10061-02-6	Trans-1,3-Dichloroproene	2	U
75-15-0	Carbon Disulfide	2	U	110-75-8	2-Chloroethylvinylether	2	U
75-69-4	Trichlorofluoromethane	2	U	75-25-2	Bromoform	1	U
75-35-4	1,1-Dichloroethene	2	U	74-95-3	Dibromomethane	0.8	U
75-35-3	1,1-Dichloroethane	2	U	764-41-0	Trans-1,4-dichloro-2-butene	1	U
540-59-0	1,2-Dichloroethene (total)	2	U	108-10-1	4-Methyl-2-Pentanone	3	U
67-66-3	Chloroform	2	U	96-18-4	1,2,3-Trichloropropane	1	U
107-06-2	1,2-Dichloroethane	1	U	591-78-6	2-Hexanone	2	U
74-88-4	Iodomethane	2	U	127-18-4	Tetrachloroethene	1	U
107-02-8	Acrolein	2	U	79-34-5	1,1,2,2-Tetrachloroethane	1	U
107-13-1	Acrylonitrile	2	U	97-63-2	Ethyl methacrylate	1	U
78-93-3	2-Butanone	2	U	108-88-3	Toluene	1	U
71-55-6	1,1,1-Trichloroethane	1	U	108-90-7	Chlorobenzene	1	U
56-23-5	Carbon Tetrachloride	1	U	100-41-4	Ethylbenzene	1	U
108-05-4	Vinyl Acetate	3	U	100-42-5	Styrene	2	U
75-27-4	Bromodichloromethane	1	U	1330-20-7	Total Xylenes	0.9	U
78-87-5	1,2-Dichloropropane	1	U				

B - Compound was detected in the QC blank.
< - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

9613424.0550

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BOOZR7

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: 0719 SAS No.: _____ SDG No.: EK4368

Matrix: (soil/water) SOIL Lab Sample ID: EK4381

Sample wt/vol: _____ (g/mL) G Lab File ID: KU20EK4381

Level: (low/med) LOW Date Received: 09/13/91

% Moisture: not dec. 1 Date Analyzed: 09/19/91

Column (pack/cap) PACK Dilution Factor: 1

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

150

9613424.0551

Sample Number
BOOZR8

VOLATILE ORGANICS ANALYSIS DATA SHEET

(Page 1)

Laboratory Name: DATACHEM LABS
Case No: 0719
Lab Sample ID No: EK4382
QC Report No:
Sample Matrix: SOIL
Contract No: 3534C
Data Release Authorized By:
Date Sample Received: 09/13/91

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared:
Date Analyzed: 09/19/91
Conc/Dil Factor: 1. pH
Percent Moisture: (Not Decanted) 1.0

CAS Number		UG/KG		CAS Number		UG/KG	
74-87-3	Chloromethane	3	U	10061-01-5	cis-1,3-Dichloropropene	2	U
74-83-9	Bromomethane	2	U	79-01-6	Trichloroethene	1	U
75-01-4	Vinyl Chloride	3	U	124-48-1	Dibromochloromethane	1	U
75-00-3	Chloroethane	3	U	79-00-5	1,1,2-Trichloroethane	2	U
75-09-2	Methylene Chloride	3	U	71-43-2	Benzene	1	U
67-64-1	Acetone	18	B	10061-02-6	Trans-1,3-Dichloroproene	2	U
75-15-0	Carbon Disulfide	2	U	110-75-8	2-Chloroethylvinylether	2	U
75-69-4	Trichlorofluoromethane	2	U	75-25-2	Bromoform	1	U
75-35-4	1,1-Dichloroethene	2	U	74-95-3	Dibromomethane	0.8	U
75-35-3	1,1-Dichloroethane	2	U	764-41-0	Trans-1,4-dichloro-2-butene	1	U
540-59-0	1,2-Dichloroethene (total)	2	U	108-10-1	4-Methyl-2-Pentanone	3	U
67-66-3	Chloroform	2	U	96-18-4	1,2,3-Trichloropropane	1	U
107-06-2	1,2-Dichloroethane	1	U	591-78-6	2-Hexanone	2	U
74-88-4	Iodomethane	2	U	127-18-4	Tetrachloroethene	1	U
107-02-8	Acrolein	2	U	79-34-5	1,1,2,2-Tetrachloroethane	1	U
107-13-1	Acrylonitrile	2	U	97-63-2	Ethyl methacrylate	1	U
78-93-3	2-Butanone	2	U	108-88-3	Toluene	1	J
71-55-6	1,1,1-Trichloroethane	1	U	108-90-7	Chlorobenzene	1	U
56-23-5	Carbon Tetrachloride	1	U	100-41-4	Ethylbenzene	1	U
108-05-4	Vinyl Acetate	3	U	100-42-5	Styrene	2	U
75-27-4	Bromodichloromethane	1	U	1330-20-7	Total Xylenes	0.9	U
78-87-5	1,2-Dichloropropane	1	U				

B - Compound was detected in the QC blank.
= - Reported value is less than the detection limit.
< - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

9613424.0552

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BOOZR8

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: 0719 SAS No.: _____ SDG No.: EK4368

Matrix: (soil/water) SOIL Lab Sample ID: EK4382

Sample wt/vol: _____ (g/mL) G Lab File ID: KU21EK4382

Level: (low/med) LOW Date Received: 09/13/91

% Moisture: not dec. 1 Date Analyzed: 09/19/91

Column (pack/cap) PACK Dilution Factor: 1

Number TICs found: 1

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	C10 BICYCLIC HYDROCARBON	23.35	6.7	J

9613424.0553

Sample Number
BOOZR9

VOLATILE ORGANICS ANALYSIS DATA SHEET
(Page 1)

Laboratory Name: DATACHEM LABS
Case No: 0719
Lab Sample ID No: EK4383
QC Report No:
Sample Matrix: SOIL
Contract No: 3534C
Data Release Authorized By:
Date Sample Received: 09/13/91

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared:
Date Analyzed: 09/19/91
Conc/Dil Factor: 1. pH
Percent Moisture: (Not Decanted) 1.0

CAS Number		UG/KG		CAS Number		UG/KG	
74-87-3	Chloromethane	3	U	10061-01-5	cis-1,3-Dichloropropene	2	U
74-83-9	Bromomethane	2	U	79-01-6	Trichloroethene	1	U
75-01-4	Vinyl Chloride	3	U	124-48-1	Dibromochloromethane	1	U
75-00-3	Chloroethane	3	U	79-00-5	1,1,2-Trichloroethane	2	U
75-09-2	Methylene Chloride	3	U	71-43-2	Benzene	1	U
67-64-1	Acetone	63	B	10061-02-6	Trans-1,3-Dichloroproene	2	U
75-15-0	Carbon Disulfide	2	U	110-75-8	2-Chloroethylvinylether	2	U
75-69-4	Trichlorofluoromethane	2	U	75-25-2	Bromoform	1	U
75-35-4	1,1-Dichloroethene	2	U	74-95-3	Dibromomethane	0.8	U
75-35-3	1,1-Dichloroethane	2	U	764-41-0	Trans-1,4-dichloro-2-butene	1	U
540-59-0	1,2-Dichloroethene (total)	2	U	108-10-1	4-Methyl-2-Pentanone	3	U
67-66-3	Chloroform	2	U	96-18-4	1,2,3-Trichloropropane	1	U
107-06-2	1,2-Dichloroethane	1	U	591-78-6	2-Hexanone	9	
74-88-4	Iodomethane	2	U	127-18-4	Tetrachloroethene	1	U
107-02-8	Acrolein	2	U	79-34-5	1,1,2,2-Tetrachloroethane	1	U
107-13-1	Acrylonitrile	2	U	97-63-2	Ethyl methacrylate	1	U
78-93-3	2-Butanone	17		108-88-3	Toluene	1	U
71-55-6	1,1,1-Trichloroethane	1	U	108-90-7	Chlorobenzene	1	U
56-23-5	Carbon Tetrachloride	1	U	100-41-4	Ethylbenzene	1	U
108-05-4	Vinyl Acetate	3	U	100-42-5	Styrene	2	U
75-27-4	Bromodichloromethane	1	U	1330-20-7	Total Xylenes	0.9	U
78-87-5	1,2-Dichloropropane	1	U				

B - Compound was detected in the QC blank.
< - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

9613424.0554
1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B00ZR9

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: 0719 SAS No.: _____ SDG No.: EK4368

Matrix: (soil/water) SOIL Lab Sample ID: EK4383

Sample wt/vol: _____ (g/mL) G Lab File ID: KU22EK4383

Level: (low/med) LOW Date Received: 09/13/91

% Moisture: not dec. 1 Date Analyzed: 09/19/91

Column (pack/cap) PACK Dilution Factor: 1

Number TICs found: 1

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 928-68-7	2-HEPTANONE, 6-METHYL	26.86	17	J

9613424.0555

Sample Number
BOOZS0

VOLATILE ORGANICS ANALYSIS DATA SHEET

(Page 1)

Laboratory Name: DATACHEM LABS
Case No: 0719
Lab Sample ID No: EK4384
QC Report No:
Sample Matrix: SOIL
Contract No: 3534C
Data Release Authorized By:
Date Sample Received: 09/13/91

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared:
Date Analyzed: 09/19/91
Conc/Dil Factor: 1. pH
Percent Moisture: (Not Decanted) 2.0

CAS Number		UG/KG		CAS Number		UG/KG	
74-87-3	Chloromethane	3	U	10061-01-5	cis-1,3-Dichloropropene	2	U
74-83-9	Bromomethane	2	U	79-01-6	Trichloroethene	1	U
75-01-4	Vinyl Chloride	3	U	124-48-1	Dibromochloromethane	1	U
75-00-3	Chloroethane	3	U	79-00-5	1,1,2-Trichloroethane	2	U
75-09-2	Methylene Chloride	3	U	71-43-2	Benzene	1	U
67-64-1	Acetone	31	B	10061-02-6	Trans-1,3-Dichloroproene	2	U
75-15-0	Carbon Disulfide	2	U	110-75-8	2-Chloroethylvinylether	2	U
75-69-4	Trichlorofluoromethane	2	U	75-25-2	Bromoform	1	U
75-35-4	1,1-Dichloroethene	2	U	74-95-3	Dibromomethane	0.8	U
75-35-3	1,1-Dichloroethane	2	U	764-41-0	Trans-1,4-dichloro-2-butene	1	U
540-59-0	1,2-Dichloroethene (total)	2	U	108-10-1	4-Methyl-2-Pentanone	3	U
67-66-3	Chloroform	2	U	96-18-4	1,2,3-Trichloropropane	1	U
107-06-2	1,2-Dichloroethane	1	U	591-78-6	2-Hexanone	2	U
74-88-4	Iodomethane	2	U	127-18-4	Tetrachloroethene	1	U
107-02-8	Acrolein	2	U	79-34-5	1,1,2,2-Tetrachloroethane	1	U
107-13-1	Acrylonitrile	2	U	97-63-2	Ethyl methacrylate	1	U
78-93-3	2-Butanone	2	U	108-88-3	Toluene	1	U
71-55-6	1,1,1-Trichloroethane	1	U	108-90-7	Chlorobenzene	1	U
56-23-5	Carbon Tetrachloride	1	U	100-41-4	Ethylbenzene	1	U
108-05-4	Vinyl Acetate	3	U	100-42-5	Styrene	2	U
75-27-4	Bromodichloromethane	1	U	1330-20-7	Total Xylenes	0.9	U
78-87-5	1,2-Dichloropropane	1	U				

B - Compound was detected in the QC blank.
< - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

9613424.0556

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BOOZS0

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: 0719 SAS No.: _____ SDG No.: EK4368

Matrix: (soil/water) SOIL Lab Sample ID: EK4384

Sample wt/vol: _____ (g/mL) G Lab File ID: KU23EK4384

Level: (low/med) LOW Date Received: 09/13/91

% Moisture: not dec. 2 Date Analyzed: 09/19/91

Column (pack/cap) PACK Dilution Factor: 1

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

9613424.0557

Sample Number
BOOZS1

VOLATILE ORGANICS ANALYSIS DATA SHEET
(Page 1)

Laboratory Name: DATACHEM LABS
Case No: 0719
Lab Sample ID No: EK4385
QC Report No:
Sample Matrix: SOIL
Contract No: 3534C
Data Release Authorized By:
Date Sample Received: 09/13/91

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared:
Date Analyzed: 09/19/91
Conc/Dil Factor: 1. pH
Percent Moisture: (Not Decanted) 1.0

CAS Number		UG/KG		CAS Number		UG/KG	
74-87-3	Chloromethane	3	U	10061-01-5	cis-1,3-Dichloropropene	2	U
74-83-9	Bromomethane	2	U	79-01-6	Trichloroethene	1	U
75-01-4	Vinyl Chloride	3	U	124-48-1	Dibromochloromethane	1	U
75-00-3	Chloroethane	3	U	79-00-5	1,1,2-Trichloroethane	2	U
75-09-2	Methylene Chloride	3	U	71-43-2	Benzene	1	U
67-64-1	Acetone	26	B	10061-02-6	Trans-1,3-Dichloroproene	2	U
75-15-0	Carbon Disulfide	2	U	110-75-8	2-Chloroethylvinylether	2	U
75-69-4	Trichlorofluoromethane	2	U	75-25-2	Bromoform	1	U
75-35-4	1,1-Dichloroethene	2	U	74-95-3	Dibromomethane	0.8	U
75-35-3	1,1-Dichloroethane	2	U	764-41-0	Trans-1,4-dichloro-2-butene	1	U
540-59-0	1,2-Dichloroethene (total)	2	U	108-10-1	4-Methyl-2-Pentanone	3	U
67-66-3	Chloroform	2	U	96-18-4	1,2,3-Trichloropropane	1	U
107-06-2	1,2-Dichloroethane	1	U	591-78-6	2-Hexanone	6	
74-88-4	Iodomethane	2	U	127-18-4	Tetrachloroethene	1	U
107-02-8	Acrolein	2	U	79-34-5	1,1,2,2-Tetrachloroethane	1	U
107-13-1	Acrylonitrile	2	U	97-63-2	Ethyl methacrylate	1	U
78-93-3	2-Butanone	13		108-88-3	Toluene	1	U
71-55-6	1,1,1-Trichloroethane	1	U	108-90-7	Chlorobenzene	1	U
56-23-5	Carbon Tetrachloride	1	U	100-41-4	Ethylbenzene	1	U
108-05-4	Vinyl Acetate	3	U	100-42-5	Styrene	2	U
75-27-4	Bromodichloromethane	1	U	1330-20-7	Total Xylenes	0.9	U
78-87-5	1,2-Dichloropropane	1	U				

B - Compound was detected in the QC blank.
< - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

9613424.0558

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BOOZS1

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: 0719 SAS No.: _____ SDG No.: EK4368

Matrix: (soil/water) SOIL Lab Sample ID: EK4385

Sample wt/vol: _____ (g/mL) G Lab File ID: KU24EK4385

Level: (low/med) LOW Date Received: 09/13/91

% Moisture: not dec. 1 Date Analyzed: 09/19/91

Column (pack/cap) PACK Dilution Factor: 1

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

9613424.0559

Sample Number
BOOZS2

VOLATILE ORGANICS ANALYSIS DATA SHEET
(Page 1)

Laboratory Name: DATACHEM LABS
Case No: 0719
Lab Sample ID No: EK4386
QC Report No:
Sample Matrix: SOIL
Contract No: 3534C
Data Release Authorized By:
Date Sample Received: 09/13/91

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared:
Date Analyzed: 09/19/91
Conc/Dil Factor: 1. pH
Percent Moisture: (Not Decanted) 1.0

CAS Number		UG/KG		CAS Number		UG/KG	
74-87-3	Chloromethane	3	U	10061-01-5	cis-1,3-Dichloropropene	2	U
74-83-9	Bromomethane	2	U	79-01-6	Trichloroethene	1	U
75-01-4	Vinyl Chloride	3	U	124-48-1	Dibromochloromethane	1	U
75-00-3	Chloroethane	3	U	79-00-5	1,1,2-Trichloroethane	2	U
75-09-2	Methylene Chloride	3	U	71-43-2	Benzene	1	U
67-64-1	Acetone	32	B	10061-02-6	Trans-1,3-Dichloroproene	2	U
75-15-0	Carbon Disulfide	2	U	110-75-8	2-Chloroethylvinylether	2	U
75-69-4	Trichlorofluoromethane	2	U	75-25-2	Bromoform	1	U
75-35-4	1,1-Dichloroethene	2	U	74-95-3	Dibromomethane	0.8	U
75-35-3	1,1-Dichloroethane	2	U	764-41-0	Trans-1,4-dichloro-2-butene	1	U
540-59-0	1,2-Dichloroethene (total)	2	U	108-10-1	4-Methyl-2-Pentanone	3	U
67-66-3	Chloroform	2	U	96-18-4	1,2,3-Trichloropropane	1	U
107-06-2	1,2-Dichloroethane	1	U	591-78-6	2-Hexanone	11	
74-88-4	Iodomethane	2	U	127-18-4	Tetrachloroethene	1	U
107-02-8	Acrolein	2	U	79-34-5	1,1,2,2-Tetrachloroethane	1	U
107-13-1	Acrylonitrile	2	U	97-63-2	Ethyl methacrylate	1	U
78-93-3	2-Butanone	18		108-88-3	Toluene	1	U
71-55-6	1,1,1-Trichloroethane	1	U	108-90-7	Chlorobenzene	1	U
56-23-5	Carbon Tetrachloride	1	U	100-41-4	Ethylbenzene	1	U
108-05-4	Vinyl Acetate	3	U	100-42-5	Styrene	2	U
75-27-4	Bromodichloromethane	1	U	1330-20-7	Total Xylenes	0.9	U
78-87-5	1,2-Dichloropropane	1	U				

B - Compound was detected in the QC blank.
< - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

9613424.0560
1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BOOZS2

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: 0719 SAS No.: _____ SDG No.: EK4368

Matrix: (soil/water) SOIL Lab Sample ID: EK4386

Sample wt/vol: _____ (g/mL) G Lab File ID: KU25EK4386

Level: (low/med) LOW Date Received: 09/13/91

% Moisture: not dec. 1 Date Analyzed: 09/19/91

Column (pack/cap) PACK Dilution Factor: 1

Number TICs found: 2

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	C7 KETONE	23.65	12	J
2. 928-68-7	2-HEPTANONE, 6-METHYL-	26.81	39	J

9613424.0561

Sample Number
BOOZS3

VOLATILE ORGANICS ANALYSIS DATA SHEET

(Page 1)

Laboratory Name: DATACHEM LABS
Case No: 0719
Lab Sample ID No: EK4387
QC Report No:
Sample Matrix: SOIL
Contract No: 3534C
Data Release Authorized By:
Date Sample Received: 09/13/91

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared:
Date Analyzed: 09/19/91
Conc/Dil Factor: 1. pH
Percent Moisture: (Not Decanted) 1.0

CAS Number		UG/KG		CAS Number		UG/KG	
74-87-3	Chloromethane	3	U	10061-01-5	cis-1,3-Dichloropropene	2	U
74-83-9	Bromomethane	2	U	79-01-6	Trichloroethene	1	U
75-01-4	Vinyl Chloride	3	U	124-48-1	Dibromochloromethane	1	U
75-00-3	Chloroethane	3	U	79-00-5	1,1,2-Trichloroethane	2	U
75-09-2	Methylene Chloride	3	U	71-43-2	Benzene	1	U
67-64-1	Acetone	6	B	10061-02-6	Trans-1,3-Dichloroproene	2	U
75-15-0	Carbon Disulfide	2	U	110-75-8	2-Chloroethylvinylether	2	U
75-69-4	Trichlorofluoromethane	2	U	75-25-2	Bromoform	1	U
75-35-4	1,1-Dichloroethene	2	U	74-95-3	Dibromomethane	0.8	U
75-35-3	1,1-Dichloroethane	2	U	764-41-0	Trans-1,4-dichloro-2-butene	1	U
540-59-0	1,2-Dichloroethene (total)	2	U	108-10-1	4-Methyl-2-Pentanone	3	U
67-66-3	Chloroform	2	U	96-18-4	1,2,3-Trichloropropane	1	U
107-06-2	1,2-Dichloroethane	1	U	591-78-6	2-Hexanone	2	U
74-88-4	Iodomethane	2	U	127-18-4	Tetrachloroethene	1	U
107-02-8	Acrolein	2	U	79-34-5	1,1,2,2-Tetrachloroethane	1	U
107-13-1	Acrylonitrile	2	U	97-63-2	Ethyl methacrylate	1	U
78-93-3	2-Butanone	2	U	108-88-3	Toluene	1	U
71-55-6	1,1,1-Trichloroethane	1	U	108-90-7	Chlorobenzene	1	U
56-23-5	Carbon Tetrachloride	1	U	100-41-4	Ethylbenzene	1	U
108-05-4	Vinyl Acetate	3	U	100-42-5	Styrene	2	U
75-27-4	Bromodichloromethane	1	U	1330-20-7	Total Xylenes	0.9	U
78-87-5	1,2-Dichloropropane	1	U				

B - Compound was detected in the QC blank.
< - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

9613424.0562

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BOOZS3

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: 0719 SAS No.: _____ SDG No.: EK4368

Matrix: (soil/water) SOIL Lab Sample ID: EK4387

Sample wt/vol: _____ (g/mL) G Lab File ID: KU26EK4387

Level: (low/med) LOW Date Received: 09/13/91

% Moisture: not dec. 1 Date Analyzed: 09/19/91

Column (pack/cap) PACK Dilution Factor: 1

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

9613424.0563

Sample Number
BOOZS4

VOLATILE ORGANICS ANALYSIS DATA SHEET

(Page 1)

Laboratory Name: DATACHEM LABS
Case No: 0719
Lab Sample ID No: EK4388
QC Report No:
Sample Matrix: SOIL
Contract No: 3534C
Data Release Authorized By:
Date Sample Received: 09/13/91

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared:
Date Analyzed: 09/19/91
Conc/Dil Factor: 1. pH
Percent Moisture: (Not Decanted) 0.0

CAS Number		UG/KG		CAS Number		UG/KG	
74-87-3	Chloromethane	3	U	10061-01-5	cis-1,3-Dichloropropene	2	U
74-83-9	Bromomethane	2	U	79-01-6	Trichloroethene	1	U
75-01-4	Vinyl Chloride	3	U	124-48-1	Dibromochloromethane	1	U
75-00-3	Chloroethane	3	U	79-00-5	1,1,2-Trichloroethane	2	U
75-09-2	Methylene Chloride	3	U	71-43-2	Benzene	1	U
67-64-1	Acetone	11	B	10061-02-6	Trans-1,3-Dichloroproene	2	U
75-15-0	Carbon Disulfide	2	U	110-75-8	2-Chloroethylvinylether	2	U
75-69-4	Trichlorofluoromethane	2	U	75-25-2	Bromoform	1	U
75-35-4	1,1-Dichloroethene	2	U	74-95-3	Dibromomethane	0.8	U
75-35-3	1,1-Dichloroethane	2	U	764-41-0	Trans-1,4-dichloro-2-butene	1	U
540-59-0	1,2-Dichloroethene (total)	2	U	108-10-1	4-Methyl-2-Pentanone	2	U
67-66-3	Chloroform	2	U	96-18-4	1,2,3-Trichloropropane	1	U
107-06-2	1,2-Dichloroethane	1	U	591-78-6	2-Hexanone	2	U
74-88-4	Iodomethane	2	U	127-18-4	Tetrachloroethene	1	U
107-02-8	Acrolein	2	U	79-34-5	1,1,2,2-Tetrachloroethane	1	U
107-13-1	Acrylonitrile	2	U	97-63-2	Ethyl methacrylate	1	U
78-93-3	2-Butanone	10		108-88-3	Toluene	1	U
71-55-6	1,1,1-Trichloroethane	1	U	108-90-7	Chlorobenzene	1	U
56-23-5	Carbon Tetrachloride	1	U	100-41-4	Ethylbenzene	1	U
108-05-4	Vinyl Acetate	3	U	100-42-5	Styrene	2	U
75-27-4	Bromodichloromethane	1	U	1330-20-7	Total Xylenes	0.9	U
78-87-5	1,2-Dichloropropane	1	U				

B - Compound was detected in the QC blank.
< - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

9613424_0564
1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BOOZS4

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: 0719 SAS No.: _____ SDG No.: EK4368

Matrix: (soil/water) SOIL Lab Sample ID: EK4388

Sample wt/vol: _____ (g/mL) G Lab File ID: KU27EK4388

Level: (low/med) LOW Date Received: 09/13/91

% Moisture: not dec. 0 Date Analyzed: 09/19/91

Column (pack/cap) PACK Dilution Factor: 1

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

9613424.0565

Sample Number
BOOZS5

VOLATILE ORGANICS ANALYSIS DATA SHEET

(Page 1)

Laboratory Name: DATACHEM LABS
Case No: 0719
Lab Sample ID No: EK4389
QC Report No:
Sample Matrix: SOIL
Contract No: 3534C
Data Release Authorized By:
Date Sample Received: 09/13/91

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared:
Date Analyzed: 09/19/91
Conc/Dil Factor: 1. pH
Percent Moisture: (Not Decanted) 0.0

CAS Number		UG/KG		CAS Number		UG/KG	
74-87-3	Chloromethane	3	U	10061-01-5	cis-1,3-Dichloropropene	2	U
74-83-9	Bromomethane	2	U	79-01-6	Trichloroethene	1	U
75-01-4	Vinyl Chloride	3	U	124-48-1	Dibromochloromethane	1	U
75-00-3	Chloroethane	3	U	79-00-5	1,1,2-Trichloroethane	2	U
75-09-2	Methylene Chloride	3	U	71-43-2	Benzene	1	U
67-64-1	Acetone	6	B	10061-02-6	Trans-1,3-Dichloroproene	2	U
75-15-0	Carbon Disulfide	2	U	110-75-8	2-Chloroethylvinylether	2	U
75-69-4	Trichlorofluoromethane	2	U	75-25-2	Bromoform	1	U
75-35-4	1,1-Dichloroethene	2	U	74-95-3	Dibromomethane	0.8	U
75-35-3	1,1-Dichloroethane	2	U	764-41-0	Trans-1,4-dichloro-2-butene	1	U
540-59-0	1,2-Dichloroethene (total)	2	U	108-10-1	4-Methyl-2-Pentanone	2	U
67-66-3	Chloroform	2	U	96-18-4	1,2,3-Trichloropropane	1	U
107-06-2	1,2-Dichloroethane	1	U	591-78-6	2-Hexanone	2	U
74-88-4	Iodomethane	2	U	127-18-4	Tetrachloroethene	1	U
107-02-8	Acrolein	2	U	79-34-5	1,1,2,2-Tetrachloroethane	1	U
107-13-1	Acrylonitrile	2	U	97-63-2	Ethyl methacrylate	1	U
78-93-3	2-Butanone	2	U	108-88-3	Toluene	0.9	J
71-55-6	1,1,1-Trichloroethane	1	U	108-90-7	Chlorobenzene	1	U
56-23-5	Carbon Tetrachloride	1	U	100-41-4	Ethylbenzene	1	U
108-05-4	Vinyl Acetate	3	U	100-42-5	Styrene	2	U
75-27-4	Bromodichloromethane	1	U	1330-20-7	Total Xylenes	0.9	U
78-87-5	1,2-Dichloropropane	1	U				

B - Compound was detected in the QC blank.
= - Reported value is less than the detection limit.
< - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

9613424.0566

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BOOZS5

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: 0719 SAS No.: _____ SDG No.: EK4368

Matrix: (soil/water) SOIL Lab Sample ID: EK4389

Sample wt/vol: _____ (g/mL) G Lab File ID: KU28EK4389

Level: (low/med) LOW Date Received: 09/13/91

% Moisture: not dec. 0 Date Analyzed: 09/19/91

Column (pack/cap) PACK Dilution Factor: 1

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

9613424.0567

Sample Number
BOOZS7

VOLATILE ORGANICS ANALYSIS DATA SHEET
(Page 1)

Laboratory Name: DATACHEM LABS
Case No: 0719
Lab Sample ID No: EK4390
QC Report No:
Sample Matrix: SOIL
Contract No: 3534C
Data Release Authorized By:
Date Sample Received: 09/13/91

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared:
Date Analyzed: 09/20/91
Conc/Dil Factor: 1. pH
Percent Moisture: (Not Decanted) 0.0

CAS Number		UG/KG		CAS Number		UG/KG	
74-87-3	Chloromethane	3	U	10061-01-5	cis-1,3-Dichloropropene	2	U
74-83-9	Bromomethane	2	U	79-01-6	Trichloroethene	1	U
75-01-4	Vinyl Chloride	3	U	124-48-1	Dibromochloromethane	1	U
75-00-3	Chloroethane	3	U	79-00-5	1,1,2-Trichloroethane	2	U
75-09-2	Methylene Chloride	3	U	71-43-2	Benzene	1	U
67-64-1	Acetone	4	B	10061-02-6	Trans-1,3-Dichloroproene	2	U
75-15-0	Carbon Disulfide	2	U	110-75-8	2-Chloroethylvinylether	2	U
75-69-4	Trichlorofluoromethane	2	U	75-25-2	Bromoform	1	U
75-35-4	1,1-Dichloroethene	2	U	74-95-3	Dibromomethane	0.8	U
75-35-3	1,1-Dichloroethane	2	U	764-41-0	Trans-1,4-dichloro-2-butene	1	U
540-59-0	1,2-Dichloroethene (total)	2	U	108-10-1	4-Methyl-2-Pentanone	2	U
67-66-3	Chloroform	2	U	96-18-4	1,2,3-Trichloropropane	1	U
107-06-2	1,2-Dichloroethane	1	U	591-78-6	2-Hexanone	2	U
74-88-4	Iodomethane	2	U	127-18-4	Tetrachloroethene	1	U
107-02-8	Acrolein	2	U	79-34-5	1,1,2,2-Tetrachloroethane	1	U
107-13-1	Acrylonitrile	2	U	97-63-2	Ethyl methacrylate	1	U
78-93-3	2-Butanone	2	U	108-88-3	Toluene	1	U
71-55-6	1,1,1-Trichloroethane	1	U	108-90-7	Chlorobenzene	1	U
56-23-5	Carbon Tetrachloride	1	U	100-41-4	Ethylbenzene	1	U
108-05-4	Vinyl Acetate	3	U	100-42-5	Styrene	2	U
75-27-4	Bromodichloromethane	1	U	1330-20-7	Total Xylenes	0.9	U
78-87-5	1,2-Dichloropropane	1	U				

B - Compound was detected in the QC blank.
< - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

9613424.0568

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BOOZS7

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: 0719 SAS No.: _____ SDG No.: EK4368

Matrix: (soil/water) SOIL Lab Sample ID: EK4390

Sample wt/vol: _____ (g/mL) G Lab File ID: KU33EK4390

Level: (low/med) LOW Date Received: 09/13/91

% Moisture: not dec. 0 Date Analyzed: 09/20/91

Column (pack/cap) PACK Dilution Factor: 1

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

251

9613424.0569

Sample Number
BOOZS8

VOLATILE ORGANICS ANALYSIS DATA SHEET
(Page 1)

Laboratory Name: DATACHEM LABS
Case No: 0719
Lab Sample ID No: EK4391
QC Report No:
Sample Matrix: SOIL
Contract No: 3534C
Data Release Authorized By:
Date Sample Received: 09/13/91

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared:
Date Analyzed: 09/20/91
Conc/Dil Factor: 1. pH
Percent Moisture: (Not Decanted) 0.0

CAS Number		UG/KG		CAS Number		UG/KG	
74-87-3	Chloromethane	3	U	10061-01-5	cis-1,3-Dichloropropene	2	U
74-83-9	Bromomethane	2	U	79-01-6	Trichloroethene	1	U
75-01-4	Vinyl Chloride	3	U	124-48-1	Dibromochloromethane	1	U
75-00-3	Chloroethane	3	U	79-00-5	1,1,2-Trichloroethane	2	U
75-09-2	Methylene Chloride	3	U	71-43-2	Benzene	1	U
67-64-1	Acetone	23	B	10061-02-6	Trans-1,3-Dichloroproene	2	U
75-15-0	Carbon Disulfide	2	U	110-75-8	2-Chloroethylvinylether	2	U
75-69-4	Trichlorofluoromethane	2	U	75-25-2	Bromoform	1	U
75-35-4	1,1-Dichloroethene	2	U	74-95-3	Dibromomethane	0.8	U
75-35-3	1,1-Dichloroethane	2	U	764-41-0	Trans-1,4-dichloro-2-butene	1	U
540-59-0	1,2-Dichloroethene (total)	2	U	108-10-1	4-Methyl-2-Pentanone	2	U
67-66-3	Chloroform	2	U	96-18-4	1,2,3-Trichloropropane	1	U
107-06-2	1,2-Dichloroethane	1	U	591-78-6	2-Hexanone	2	U
74-88-4	Iodomethane	2	U	127-18-4	Tetrachloroethene	1	U
107-02-8	Acrolein	2	U	79-34-5	1,1,2,2-Tetrachloroethane	1	U
107-13-1	Acrylonitrile	2	U	97-63-2	Ethyl methacrylate	1	U
78-93-3	2-Butanone	2	U	108-88-3	Toluene	1	U
71-55-6	1,1,1-Trichloroethane	1	U	108-90-7	Chlorobenzene	1	U
56-23-5	Carbon Tetrachloride	1	U	100-41-4	Ethylbenzene	1	U
108-05-4	Vinyl Acetate	3	U	100-42-5	Styrene	2	U
75-27-4	Bromodichloromethane	1	U	1330-20-7	Total Xylenes	0.9	U
78-87-5	1,2-Dichloropropane	1	U				

B - Compound was detected in the QC blank.
< - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

9613424.0570

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BOOZS8

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: 0719 SAS No.: _____ SDG No.: EK4368

Matrix: (soil/water) SOIL Lab Sample ID: EK4391

Sample wt/vol: _____ (g/mL) G Lab File ID: KU34EK4391

Level: (low/med) LOW Date Received: 09/13/91

% Moisture: not dec. 0 Date Analyzed: 09/20/91

Column (pack/cap) PACK Dilution Factor: 1

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

9613424.0571

Semi-VOA

DATA CHEM LABORATORIES

A SORENSON COMPANY

November 07, 1991

REPORT INTRODUCTION
ANALYTICAL COMMENTARY

SUBMITTED TO: Jeanette Duncan

SUBMITTED BY: Craig L. Willis

REFERENCE DATA:

Analysis of: 28 soil samples, including two matrix spikes and two matrix spike duplicates

Method of Analysis: EPA 8270 with modifications

Identification No: S91-0719-BC

DataChem Laboratory No: EK4368 through EK4391, EK4392(MS1), EK4393(MSD1), EK4394(MS2), EK4395(MSD2)

The above numbered samples were analyzed for base-neutral and acid compounds by gas chromatography/mass spectrometry. EPA Test Method 8270 was followed with modifications. (United States Environmental Protection Agency; Office of Solid Waste and Emergency Response, SW-846 November 1986).

EPA Method 3550 was used for preparation of the samples prior to analysis. Thirty grams of each soil sample were extracted with methylene chloride using sonication. Surrogate standards were added prior to the extraction as prescribed. The total volume of most of the samples after extraction and concentration was one milliliter. However, samples EK4372, EK4385, EK4392, and EK4393 had a final volume of two milliliters and EK4383 had a final volume of five milliliters. Internal standards were added to the samples and standard mixtures prior to analysis.

Separation of the compounds of interest were obtained with a 30 m, 0.32 mm internal diameter, DB-5 fused silica capillary column. Oven temperature was programmed from 40 degrees centigrade (held isothermal for 4 minutes) to 300 degrees centigrade at 10 degrees centigrade per minute. A 40 second splitless injection interval was used. Analysis was performed using a Finnigan 5100 GC/MS/DS system, scanning a mass range of 35 to 500 amu each second.

The initial calibration of the instrument was performed at concentrations of 160, 120, 80, 50 and 20 ug/mL. Calibration check compounds (CCC's) specified by the method are acenaphthene, 1,4-dichlorobenzene, hexachlorobutadiene, N-nitroso-di-n-phenylamine, di-n-octylphthalate, fluoranthene, benzo(a)pyrene, 4-chloro-3-methylphenol, 2,4-dichlorophenol, 2-nitrophenol, phenol, pentachlorophenol, and 2,4,6-trichlorophenol. The relative standard deviations for the CCC's in the initial standards were less than the 30% criteria required by the method. System performance check compounds (SPCC's) specified in the method are N-nitroso-di-n-propylamine, hexachlorocyclopentadiene, 2,4-dinitrophenol, and 4-nitrophenol. The response factors (RF) for the SPCC's were greater than the minimum 0.050 required in the method.

The continuing calibration of the instrument was performed at a concentration of 50 ug/mL for all compounds. The response factors for all CCC's were less than the maximum percent difference of 25% compared to the initial curve and SPCC's response factors were greater than the minimum RF of 0.050. DFTPP performance criteria was met for all sample and standard analyses.

Due to high concentrations of target analytes and other contaminants, most of the samples required dilutions. Samples EK 4369 through EK 4378, EK 4383 through EK 4386, and EK 4392 through EK 4395 required dilutions by a factor of ten. Sample EK 4380 required a 1 in 100 dilution. The total dilution factors for samples that had a final extraction volume of two and five milliliters are 20 and 50 respectively. Sample EK 4373 shows a hit on the target analyte fluoranthene that is slightly greater than 160 ug, but was not diluted because it rounds to 160 ug. Many of the samples have unresolved hydrocarbon peaks in the mg/Kg range and cannot be quantitated. All reported values are from the dilutions unless otherwise noted.

Some values were so large that they did not readily fit on the summary report forms. These numbers were abbreviated using scientific notation with the number following the E being the exponent of 10.

Toxaphene and PCBs are possibly present in some of the samples. These samples are noted with the footnotes T and P respectively. For better identification of these analytes refer to the GC/ECD analysis. Chlordane was positively identified in some of the samples and a 100 ug/ml standard was run to quantitate it. The amount of chlordane was quantitated from the samples run on the same clock as the standard. These samples were not diluted, therefore the limit of detection (LOD) for chlordane should be 10,000 ug/Kg, not 100,000 ug/Kg as it appears on the analytical report form for sample EK 4378.

DataChem Laboratories will maintain a complete record of this data on magnetic tape along with hard copies of the ion chromatograms, mass spectra, surrogate recovery summary, and verification of compliance with EPA tuning (DFTPP) and chromatography criteria.

Surrogate recoveries were monitored and are reported at the end of the report package. All samples met surrogate recovery criteria. Surrogate 2,4,6-tribromophenol was diluted out in the sample EK 4380 and is noted with the footnote D.

Matrix spike and matrix spike duplicate analysis was performed using samples EK 4376 and EK 4387. These were reported as samples EK 4392 and EK 4393, and EK 4394 and EK 4395 respectively. Matrix spike recoveries were good, although due to a 1 in 10 dilution 4-nirtophenol was found only in EK 4395. The footnote, S, is used throughout the report to designate matrix spike compounds.

The results for the samples are reported twice in the report; first on the Target Analyte Summary Report and again on the Analytical Report (results by sample). The report follows.

Craig L. Willis
Analyst

Reviewer

Data Release

ANALYTICAL REPORT FOR SAMPLE No. EK4368

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZQ4 Sponsor WESTINGHOUSE HANFORD CO.

File ID ZL4EK4368 Date Extracted 09/17/91 Date of Analysis 09/30/91

DataChem ID S91-0719BC

Cas. No	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
62-75-9	N-nitroso-dimethylamine	U	1000
108-95-2	phenol	U	330
111-44-4	bis(2-chloroethyl)ether	U	330
95-57-8	2-chlorophenol	U	330
541-73-1	1,3-dichlorobenzene	U	330
106-46-7	1,4-dichlorobenzene	U	330
100-51-6	benzyl alcohol	U	1000
95-50-1	1,2-dichlorobenzene	U	330
95-48-7	2-methylphenol	U	330
39638-329	bis(2-chloroisopropyl)ether	U	330
106-44-5	4-methylphenol	U	330
621-64-7	N-nitroso-di-n-propylamine	U	330
67-72-1	hexachloroethane	U	330
98-95-3	nitrobenzene	U	330
78-59-1	isophorone	U	330
88-75-5	2-nitrophenol	U	330
105-67-9	2,4-dimethylphenol	U	330
111-91-1	bis(2-chloroethoxy)methane	U	330
65-85-0	benzoic acid	U	1000
120-83-2	2,4-dichlorophenol	U	330
120-82-1	1,2,4-trichlorobenzene	U	330
91-20-3	naphthalene	U	330
106-47-8	4-chloroaniline	U	330
87-68-3	hexachlorobutadiene	U	330
59-50-7	4-chloro-3-methylphenol	U	330
91-57-6	2-methylnaphthalene	U	330
77-47-4	hexachlorocyclopentadiene	U	330
88-06-2	2,4,6-trichlorophenol	U	330
95-95-4	2,4,5-trichlorophenol	U	800
91-58-7	2-chloronaphthalene	U	330
88-74-4	2-nitroaniline	U	800
131-11-3	dimethyl phthalate	U	330
606-20-2	2,6-dinitrotoluene	U	330
208-96-8	acenaphthylene	U	330
99-09-2	3-nitroaniline	U	800
83-32-9	acenaphthene	U	330
51-28-5	2,4-dinitrophenol	U	800
100-02-7	4-nitrophenol	U	800
132-64-9	dibenzofuran	U	330

See footnotes on page 4.

ANALYTICAL REPORT FOR SAMPLE No. EK4368

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZQ4 Sponsor WESTINGHOUSE HANFORD CO.

Cas. No.	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
121-14-2	2,4-dinitrotoluene	U	330
84-66-2	diethyl phthalate	370.	330
7005-72-3	4-chlorophenyl-phenylether	U	330
86-73-7	fluorene	U	330
100-01-6	4-nitroaniline	U	800
534-52-1	2-methyl-4,6-dinitrophenol	U	800
86-30-6	N-nitroso-diphenylamine	U	330
122-66-7	1,2-diphenylhydrazine	U	1000
101-55-3	4-bromophenyl-phenylether	U	330
319-84-6	.alpha.-BHC	U	1000
319-85-7	beta-BHC	U	5000
118-74-1	hexachlorobenzene	U	330
87-86-5	pentachlorophenol	U	800
58-89-9	.gamma.-BHC	U	1000
85-01-8	phenanthrene	U	330
120-12-7	anthracene	U	330
319-86-8	delta-BHC	U	5000
76-44-8	heptachlor	U	5000
84-74-2	di-n-butyl phthalate	U	330
309-00-2	aldrin	U	5000
1024-57-3	heptachlor epoxide	U	5000
206-44-0	fluoranthene	U	330
129-00-0	pyrene	U	330
959-98-8	endosulfan I	U	5000
72-55-9	4,4'DDE	U	5000
60-57-1	dieldrin	U	5000
7421-93-4	endrin aldehyde	U	5000
72-20-8	endrin	U	5000
72-54-8	4,4'DDD	U	5000
33213-65-9	endosulfan II	U	5000
85-68-7	butylbenzylphthalate	U	330
50-29-3	4,4'DDT	U	5000
1031-07-8	endosulfan sulfate	U	5000
72-43-5	p,p'-methoxychlor	U	1000
91-94-1	3,3'-dichlorobenzidine	U	1000
56-55-3	benzo(a)anthracene	U	330
117-81-7	bis(2-ethylhexyl)phthalate	U	330
218-01-9	chrysene	U	330
117-84-0	di-n-octylphthalate	U	330

See footnotes on Page 4.

ANALYTICAL REPORT FOR SAMPLE No. EK4368

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZO4 Sponsor WESTINGHOUSE HANFORD CO.

Cas. No.	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
205-99-2	benzo(b)fluoranthene	U	330
207-08-9	benzo(k)fluoranthene	U	330
50-32-8	benzo(a)pyrene	U	330
193-39-5	indeno(1,2,3-cd)pyrene	U	330
53-70-3	dibenzo(a,h)anthracene	U	330
191-24-2	benzo(g,h,i)perylene	U	330
53494-70-5	endrin ketone	U	1000
109-06-8	2-picoline	U	1000
62-50-0	ethyl methanesulfonate	U	1000
66-27-3	methyl methanesulfonate	U	1000
62-53-3	aniline	U	1000
98-86-2	acetophenone	U	1000
100-75-4	N-nitroso-piperidine	U	1000
122-09-8	a,a-dimethylphenethylamine	U	1000
87-65-0	2,6-dichlorophenol	U	1000
924-16-3	N-nitroso-di-n-butylamine	U	1000
95-94-3	1,2,4,5-tetrachlorobenzene	U	1000
90-13-1	1-chloronaphthalene	U	1000
608-93-5	pentachlorobenzene	U	1000
134-32-7	1-naphthylamine	U	1000
58-90-2	2,3,4,6-tetrachlorophenol	U	1000
91-59-8	2-naphthylamine	U	1000
62-44-2	phenacetin	U	1000
92-67-1	4-aminobiphenyl	U	1000
23950-58-5	pronamide (propyzamide)	U	1000
82-68-8	pentachloronitrobenzene	U	1000
92-87-5	benzidine	U	1000
60-11-7	p-dimethylaminoazobenzene	U	1000
57-97-6	7,12-dimethbenz(a)anthracene	U	1000
56-49-5	3-methylchloranthrene	U	1000
57-74-9	chlordane	U	10000
8001-35-2	toxaphene	U	10000
12674-11-2	PCB-1016	U	10000
11104-28-2	PCB-1221	U	10000
11141-16-5	PCB-1232	U	10000
53469-21-9	PCB-1242	U	10000
12672-29-6	PCB-1248	U	10000
11097-69-1	PCB-1254	U	10000
11096-82-5	PCB-1260	U	10000

See footnotes on Page 4.

ANALYTICAL REPORT FOR SAMPLE No. EK4368

NON-TARGET ANALYTE RESULTS
Additional Semi-Volatiles

Field Sample ID B00Z04

Cas. No	COMPOUND	Scan Number	Results ug/Kg	Footnotes
	ALDOL CONDENSATION PRODUCT	554	360	NEWB
	ALDOL CONDENSATION PRODUCT	597	900	NEWB
	BROMODIFLUORO H.C.	830	130	NEW
	HEXANEDIOIC ACID, C8 ESTER	1747	240	NEW

FOOTNOTES

B The analyte was found in the method blank. The reported results have been adjusted for the quantity found in the blank.

E The reported concentration is an estimate only. The response factor was assumed to be 1.000 relative to an internal standard.

J Indicates an estimated concentration below the Method Detection Limit.

K The isomer is unknown.

N Analytical standards were not analyzed for this compound.

U Not detected.

W The identification is tentative or closely related to the compound.

ANALYTICAL REPORT FOR SAMPLE No. EK4369

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID B00Z05 Sponsor WESTINGHOUSE HANFORD CO.

File ID ZM12EK4369D Date Extracted 09/17/91 Date of Analysis 10/01/91

DataChem ID S91-0719BC

Cas. No	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
62-75-9	N-nitroso-dimethylamine	U	10000
108-95-2	phenol	U	3300
111-44-4	bis(2-chloroethyl)ether	U	3300
95-57-8	2-chlorophenol	U	3300
541-73-1	1,3-dichlorobenzene	U	3300
106-46-7	1,4-dichlorobenzene	U	3300
100-51-6	benzyl alcohol	U	10000
95-50-1	1,2-dichlorobenzene	U	3300
95-48-7	2-methylphenol	U	3300
39638-329	bis(2-chloroisopropyl)ether	U	3300
106-44-5	4-methylphenol	U	3300
621-64-7	N-nitroso-di-n-propylamine	U	3300
67-72-1	hexachloroethane	U	3300
98-95-3	nitrobenzene	U	3300
78-59-1	isophorone	U	3300
88-75-5	2-nitrophenol	U	3300
105-67-9	2,4-dimethylphenol	U	3300
111-91-1	bis(2-chloroethoxy)methane	U	3300
65-85-0	benzoic acid	U	10000
120-83-2	2,4-dichlorophenol	U	3300
120-82-1	1,2,4-trichlorobenzene	U	3300
91-20-3	naphthalene	U	3300
106-47-8	4-chloroaniline	U	3300
87-68-3	hexachlorobutadiene	U	3300
59-50-7	4-chloro-3-methylphenol	U	3300
91-57-6	2-methylnaphthalene	U	3300
77-47-4	hexachlorocyclopentadiene	U	3300
88-06-2	2,4,6-trichlorophenol	U	3300
95-95-4	2,4,5-trichlorophenol	U	8000
91-58-7	2-chloronaphthalene	U	3300
88-74-4	2-nitroaniline	U	8000
131-11-3	dimethyl phthalate	U	3300
606-20-2	2,6-dinitrotoluene	U	3300
208-96-8	acenaphthylene	U	3300
99-09-2	3-nitroaniline	U	8000
83-32-9	acenaphthene	U	3300
51-28-5	2,4-dinitrophenol	U	8000
100-02-7	4-nitrophenol	U	8000
132-64-9	dibenzofuran	U	3300

See footnotes on page 4.

ANALYTICAL REPORT FOR SAMPLE No. EK4369

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID B00Z05 Sponsor WESTINGHOUSE HANFORD CO.

Cas. No.	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
121-14-2	2,4-dinitrotoluene	U	3300
84-66-2	diethyl phthalate	U	3300
7005-72-3	4-chlorophenyl-phenylether	U	3300
86-73-7	fluorene	U	3300
100-01-6	4-nitroaniline	U	8000
534-52-1	2-methyl-4,6-dinitrophenol	U	8000
86-30-6	N-nitroso-diphenylamine	U	3300
122-66-7	1,2-diphenylhydrazine	U	10000
101-55-3	4-bromophenyl-phenylether	U	3300
319-84-6	.alpha.-BHC	U	10000
319-85-7	beta-BHC	U	50000
118-74-1	hexachlorobenzene	U	3300
87-86-5	pentachlorophenol	U	8000
58-89-9	.gamma.-BHC	U	10000
85-01-8	phenanthrene	U	3300
120-12-7	anthracene	U	3300
319-86-8	delta-BHC	U	50000
76-44-8	heptachlor	U	50000
84-74-2	di-n-butyl phthalate	U	3300
309-00-2	aldrin	U	50000
1024-57-3	heptachlor epoxide	U	50000
206-44-0	fluoranthene	610.J	3300
129-00-0	pyrene	460.J	3300
959-98-8	endosulfan I	U	50000
72-55-9	4,4'DDE	U	50000
60-57-1	dieldrin	U	50000
7421-93-4	endrin aldehyde	U	50000
72-20-8	endrin	U	50000
72-54-8	4,4'DDD	U	50000
33213-65-9	endosulfan II	U	50000
85-68-7	butylbenzylphthalate	U	3300
50-29-3	4,4'DDT	U	50000
1031-07-8	endosulfan sulfate	U	50000
72-43-5	p,p'-methoxychlor	U	10000
91-94-1	3,3'-dichlorobenzidine	U	10000
56-55-3	benzo(a)anthracene	360.J	3300
117-81-7	bis(2-ethylhexyl)phthalate	U	3300
218-01-9	chrysene	650.J	3300
117-84-0	di-n-octylphthalate	U	3300

See footnotes on Page 4.

ANALYTICAL REPORT FOR SAMPLE No. EK4369

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZQ5 Sponsor WESTINGHOUSE HANFORD CO.

Cas. No.	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
205-99-2	benzo(b)fluoranthene	U	3300
207-08-9	benzo(k)fluoranthene	U	3300
50-32-8	benzo(a)pyrene	U	3300
193-39-5	indeno(1,2,3-cd)pyrene	U	3300
53-70-3	dibenzo(a,h)anthracene	U	3300
191-24-2	benzo(g,h,i)perylene	U	3300
53494-70-5	endrin ketone	U	10000
109-06-8	2-picoline	U	10000
62-50-0	ethyl methanesulfonate	U	10000
66-27-3	methyl methanesulfonate	U	10000
62-53-3	aniline	U	10000
98-86-2	acetophenone	U	10000
100-75-4	N-nitroso-piperidine	U	10000
122-09-8	a,a-dimethylphenethylamine	U	10000
87-65-0	2,6-dichlorophenol	U	10000
924-16-3	N-nitroso-di-n-butylamine	U	10000
95-94-3	1,2,4,5-tetrachlorobenzene	U	10000
90-13-1	1-chloronaphthalene	U	10000
608-93-5	pentachlorobenzene	U	10000
134-32-7	1-naphthylamine	U	10000
58-90-2	2,3,4,6-tetrachlorophenol	U	10000
91-59-8	2-naphthylamine	U	10000
62-44-2	phenacetin	U	10000
92-67-1	4-aminobiphenyl	U	10000
23950-58-5	pronamide (propyzamide)	U	10000
82-68-8	pentachloronitrobenzene	U	10000
92-87-5	benzidine	U	10000
60-11-7	p-dimethylaminoazobenzene	U	10000
57-97-6	7,12-dimethbenz(a)anthracene	U	10000
56-49-5	3-methylchloranthrene	U	10000
57-74-9	chlordane	U	100000
8001-35-2	toxaphene	U	100000
12674-11-2	PCB-1016	P	100000
11104-28-2	PCB-1221	P	100000
11141-16-5	PCB-1232	P	100000
53469-21-9	PCB-1242	P	100000
12672-29-6	PCB-1248	P	100000
11097-69-1	PCB-1254	P	100000
11096-82-5	PCB-1260	P	100000

See footnotes on Page 4.

ANALYTICAL REPORT FOR SAMPLE No. EK4369

NON-TARGET ANALYTE RESULTS
Additional Semi-Volatiles

Field Sample ID B00Z05

Cas. No	COMPOUND	Scan Number	Results ug/Kg	Footnotes
	UNK OXY H.C.	1392	16000	NEW
	UNK OXY H.C.	1446	25000	NEW
	UNK CYCLIC H.C.	1487	36000	NEW
	UNK POLYCYCLIC H.C.	1503	22000	NEW
	UNK POLYCYCLIC H.C.	1535	11000	NEW
	UNK POLYCYCLIC H.C.	1540	14000	NEW
	UNK POLYCYCLIC H.C.	1551	15000	NEW
	UNK POLYCYCLIC H.C.	1560	11000	NEW
	UNK POLYCYCLIC H.C.	1575	15000	NEW
	SILICON CONTAINING H.C.	1887	14000	NEW

FOOTNOTES

B The analyte was found in the method blank. The reported results have been adjusted for the quantity found in the blank.

E The reported concentration is an estimate only. The response factor was assumed to be 1.000 relative to an internal standard.

J Indicates an estimated concentration below the Method Detection Limit.

K The isomer is unknown.

N Analytical standards were not analyzed for this compound.

U Not detected.

W The identification is tentative or closely related to the compound.

ANALYTICAL REPORT FOR SAMPLE No. EK4370

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID B00Z06 Sponsor WESTINGHOUSE HANFORD CO.

File ID ZM11EK4370D Date Extracted 09/17/91 Date of Analysis 10/01/91

DataChem ID S91-0719BC

Cas. No	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
62-75-9	N-nitroso-dimethylamine	U	10000
108-95-2	phenol	U	3300
111-44-4	bis(2-chloroethyl)ether	U	3300
95-57-8	2-chlorophenol	U	3300
541-73-1	1,3-dichlorobenzene	U	3300
106-46-7	1,4-dichlorobenzene	U	3300
100-51-6	benzyl alcohol	U	10000
95-50-1	1,2-dichlorobenzene	U	3300
95-48-7	2-methylphenol	U	3300
39638-329	bis(2-chloroisopropyl)ether	U	3300
106-44-5	4-methylphenol	U	3300
621-64-7	N-nitroso-di-n-propylamine	U	3300
67-72-1	hexachloroethane	U	3300
98-95-3	nitrobenzene	U	3300
78-59-1	isophorone	U	3300
88-75-5	2-nitrophenol	U	3300
105-67-9	2,4-dimethylphenol	U	3300
111-91-1	bis(2-chloroethoxy)methane	U	3300
65-85-0	benzoic acid	U	10000
120-83-2	2,4-dichlorophenol	U	3300
120-82-1	1,2,4-trichlorobenzene	U	3300
91-20-3	naphthalene	220.J	3300
106-47-8	4-chloroaniline	U	3300
87-68-3	hexachlorobutadiene	U	3300
59-50-7	4-chloro-3-methylphenol	U	3300
91-57-6	2-methylnaphthalene	U	3300
77-47-4	hexachlorocyclopentadiene	U	3300
88-06-2	2,4,6-trichlorophenol	U	3300
95-95-4	2,4,5-trichlorophenol	U	8000
91-58-7	2-chloronaphthalene	U	3300
88-74-4	2-nitroaniline	U	8000
131-11-3	dimethyl phthalate	U	3300
606-20-2	2,6-dinitrotoluene	U	3300
208-96-8	acenaphthylene	U	3300
99-09-2	3-nitroaniline	U	8000
83-32-9	acenaphthene	270.J	3300
51-28-5	2,4-dinitrophenol	U	8000
100-02-7	4-nitrophenol	U	8000
132-64-9	dibenzofuran	U	3300

See footnotes on page 4.

ANALYTICAL REPORT FOR SAMPLE No. EK4370

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZQ6 Sponsor WESTINGHOUSE HANFORD CO.

Cas. No.	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
121-14-2	2,4-dinitrotoluene	U	3300
84-66-2	diethyl phthalate	U	3300
7005-72-3	4-chlorophenyl-phenylether	U	3300
86-73-7	fluorene	U	3300
100-01-6	4-nitroaniline	U	8000
534-52-1	2-methyl-4,6-dinitrophenol	U	8000
86-30-6	N-nitroso-diphenylamine	U	3300
122-66-7	1,2-diphenylhydrazine	U	10000
101-55-3	4-bromophenyl-phenylether	U	3300
319-84-6	.alpha.-BHC	U	10000
319-85-7	beta-BHC	U	50000
118-74-1	hexachlorobenzene	U	3300
87-86-5	pentachlorophenol	U	8000
58-89-9	.gamma.-BHC	U	10000
85-01-8	phenanthrene	4300.	3300
120-12-7	anthracene	490.J	3300
319-86-8	delta-BHC	U	50000
76-44-8	heptachlor	U	50000
84-74-2	di-n-butyl phthalate	U	3300
309-00-2	aldrin	U	50000
1024-57-3	heptachlor epoxide	U	50000
206-44-0	fluoranthene	6600.	3300
129-00-0	pyrene	5300.	3300
959-98-8	endosulfan I	U	50000
72-55-9	4,4'DDE	U	50000
60-57-1	dieldrin	U	50000
7421-93-4	endrin aldehyde	U	50000
72-20-8	endrin	U	50000
72-54-8	4,4'DDD	U	50000
33213-65-9	endosulfan II	U	50000
85-68-7	butylbenzylphthalate	U	3300
50-29-3	4,4'DDT	U	50000
1031-07-8	endosulfan sulfate	U	50000
72-43-5	p,p'-methoxychlor	U	10000
91-94-1	3,3'-dichlorobenzidine	U	10000
56-55-3	benzo(a)anthracene	2200.J	3300
117-81-7	bis(2-ethylhexyl)phthalate	U	3300
218-01-9	chrysene	3500.	3300
117-84-0	di-n-octylphthalate	U	3300

See footnotes on Page 4.

ANALYTICAL REPORT FOR SAMPLE No. EK4370

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID B00ZQ6 Sponsor WESTINGHOUSE HANFORD CO.

Cas. No.	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
205-99-2	benzo(b)fluoranthene	2100.J	3300
207-08-9	benzo(k)fluoranthene	2600.J	3300
50-32-8	benzo(a)pyrene	2200.J	3300
193-39-5	indeno(1,2,3-cd)pyrene	1600.J	3300
53-70-3	dibenzo(a,h)anthracene	U	3300
191-24-2	benzo(g,h,i)perylene	U	3300
53494-70-5	endrin ketone	U	10000
109-06-8	2-picoline	U	10000
62-50-0	ethyl methanesulfonate	U	10000
66-27-3	methyl methanesulfonate	U	10000
62-53-3	aniline	U	10000
98-86-2	acetophenone	U	10000
100-75-4	N-nitroso-piperidine	U	10000
122-09-8	a,a-dimethylphenethylamine	U	10000
87-65-0	2,6-dichlorophenol	U	10000
924-16-3	N-nitroso-di-n-butylamine	U	10000
95-94-3	1,2,4,5-tetrachlorobenzene	U	10000
90-13-1	1-chloronaphthalene	U	10000
608-93-5	pentachlorobenzene	U	10000
134-32-7	1-naphthylamine	U	10000
58-90-2	2,3,4,6-tetrachlorophenol	U	10000
91-59-8	2-naphthylamine	U	10000
62-44-2	phenacetin	U	10000
92-67-1	4-aminobiphenyl	U	10000
23950-58-5	pronamide (propyzamide)	U	10000
82-68-8	pentachloronitrobenzene	U	10000
92-87-5	benzidine	U	10000
60-11-7	p-dimethylaminoazobenzene	U	10000
57-97-6	7,12-dimethbenz(a)anthracene	U	10000
56-49-5	3-methylchloranthrene	U	10000
57-74-9	chlordane	U	100000
8001-35-2	toxaphene	U	100000
12674-11-2	PCB-1016	U	100000
11104-28-2	PCB-1221	U	100000
11141-16-5	PCB-1232	U	100000
53469-21-9	PCB-1242	U	100000
12672-29-6	PCB-1248	U	100000
11097-69-1	PCB-1254	U	100000
11096-82-5	PCB-1260	U	100000

See footnotes on Page 4.

ANALYTICAL REPORT FOR SAMPLE No. EK4370

NON-TARGET ANALYTE RESULTS
Additional Semi-Volatiles

Field Sample ID B00ZQ6

Cas. No	COMPOUND	Scan Number	Results ug/Kg	Footnotes
	********NO UNKNOWNS FOUND**********			

FOOTNOTES

B The analyte was found in the method blank. The reported results have been adjusted for the quantity found in the blank.

E The reported concentration is an estimate only. The response factor was assumed to be 1.000 relative to an internal standard.

J Indicates an estimated concentration below the Method Detection Limit.

K The isomer is unknown.

N Analytical standards were not analyzed for this compound.

U Not detected.

W The identification is tentative or closely related to the compound.

ANALYTICAL REPORT FOR SAMPLE No. EK4371

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID B00ZQ7 Sponsor WESTINGHOUSE HANFORD CO.

File ID ZM13EK4371D Date Extracted 09/17/91 Date of Analysis 10/01/91

DataChem ID S91-0719BC

Cas. No	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
62-75-9	N-nitroso-dimethylamine	U	10000
108-95-2	phenol	U	3300
111-44-4	bis(2-chloroethyl)ether	U	3300
95-57-8	2-chlorophenol	U	3300
541-73-1	1,3-dichlorobenzene	U	3300
106-46-7	1,4-dichlorobenzene	U	3300
100-51-6	benzyl alcohol	U	10000
95-50-1	1,2-dichlorobenzene	U	3300
95-48-7	2-methylphenol	U	3300
39638-329	bis(2-chloroisopropyl)ether	U	3300
106-44-5	4-methylphenol	U	3300
621-64-7	N-nitroso-di-n-propylamine	U	3300
67-72-1	hexachloroethane	U	3300
98-95-3	nitrobenzene	U	3300
78-59-1	isophorone	U	3300
88-75-5	2-nitrophenol	U	3300
105-67-9	2,4-dimethylphenol	U	3300
111-91-1	bis(2-chloroethoxy)methane	U	3300
65-85-0	benzoic acid	U	10000
120-83-2	2,4-dichlorophenol	U	3300
120-82-1	1,2,4-trichlorobenzene	U	3300
91-20-3	naphthalene	1400.J	3300
106-47-8	4-chloroaniline	U	3300
87-68-3	hexachlorobutadiene	U	3300
59-50-7	4-chloro-3-methylphenol	U	3300
91-57-6	2-methylnaphthalene	U	3300
77-47-4	hexachlorocyclopentadiene	U	3300
88-06-2	2,4,6-trichlorophenol	U	3300
95-95-4	2,4,5-trichlorophenol	U	8000
91-58-7	2-chloronaphthalene	U	3300
88-74-4	2-nitroaniline	U	8000
131-11-3	dimethyl phthalate	U	3300
606-20-2	2,6-dinitrotoluene	U	3300
208-96-8	acenaphthylene	U	3300
99-09-2	3-nitroaniline	U	8000
83-32-9	acenaphthene	1600.J	3300
51-28-5	2,4-dinitrophenol	U	8000
100-02-7	4-nitrophenol	U	8000
132-64-9	dibenzofuran	970.J	3300

See footnotes on page 4.

ANALYTICAL REPORT FOR SAMPLE No. EK4371

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID B00ZQ7 Sponsor WESTINGHOUSE HANFORD CO.

Cas. No.	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
121-14-2	2,4-dinitrotoluene	U	3300
84-66-2	diethyl phthalate	U	3300
7005-72-3	4-chlorophenyl-phenylether	U	3300
86-73-7	fluorene	1700.J	3300
100-01-6	4-nitroaniline	U	8000
534-52-1	2-methyl-4,6-dinitrophenol	U	8000
86-30-6	N-nitroso-diphenylamine	U	3300
122-66-7	1,2-diphenylhydrazine	U	10000
101-55-3	4-bromophenyl-phenylether	U	3300
319-84-6	.alpha.-BHC	U	10000
319-85-7	beta-BHC	U	50000
118-74-1	hexachlorobenzene	U	3300
87-86-5	pentachlorophenol	U	8000
58-89-9	.gamma.-BHC	U	10000
85-01-8	phenanthrene	18000.	3300
120-12-7	anthracene	2500.J	3300
319-86-8	delta-BHC	U	50000
76-44-8	heptachlor	U	50000
84-74-2	di-n-butyl phthalate	U	3300
309-00-2	aldrin	U	50000
1024-57-3	heptachlor epoxide	U	50000
206-44-0	fluoranthene	24000.	3300
129-00-0	pyrene	18000.	3300
959-98-8	endosulfan I	U	50000
72-55-9	4,4'DDE	U	50000
60-57-1	dieldrin	U	50000
7421-93-4	endrin aldehyde	U	50000
72-20-8	endrin	U	50000
72-54-8	4,4'DDD	U	50000
33213-65-9	endosulfan II	U	50000
85-68-7	butylbenzylphthalate	U	3300
50-29-3	4,4'DDT	U	50000
1031-07-8	endosulfan sulfate	U	50000
72-43-5	p,p'-methoxychlor	U	10000
91-94-1	3,3'-dichlorobenzidine	U	10000
56-55-3	benzo(a)anthracene	7800.	3300
117-81-7	bis(2-ethylhexyl)phthalate	U	3300
218-01-9	chrysene	11000.	3300
117-84-0	di-n-octylphthalate	U	3300

See footnotes on Page 4.

ANALYTICAL REPORT FOR SAMPLE No. EK4371

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID B00ZQ7 Sponsor WESTINGHOUSE HANFORD CO.

Cas. No.	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
205-99-2	benzo(b)fluoranthene	5800.	3300
207-08-9	benzo(k)fluoranthene	7900.	3300
50-32-8	benzo(a)pyrene	6300.	3300
193-39-5	indeno(1,2,3-cd)pyrene	5300.	3300
53-70-3	dibenzo(a,h)anthracene	U	3300
191-24-2	benzo(g,h,i)perylene	6100.	3300
53494-70-5	endrin ketone	U	10000
109-06-8	2-picoline	U	10000
62-50-0	ethyl methanesulfonate	U	10000
66-27-3	methyl methanesulfonate	U	10000
62-53-3	aniline	U	10000
98-86-2	acetophenone	U	10000
100-75-4	N-nitroso-piperidine	U	10000
122-09-8	a,a-dimethylphenethylamine	U	10000
87-65-0	2,6-dichlorophenol	U	10000
924-16-3	N-nitroso-di-n-butylamine	U	10000
95-94-3	1,2,4,5-tetrachlorobenzene	U	10000
90-13-1	1-chloronaphthalene	U	10000
608-93-5	pentachlorobenzene	U	10000
134-32-7	1-naphthylamine	U	10000
58-90-2	2,3,4,6-tetrachlorophenol	U	10000
91-59-8	2-naphthylamine	U	10000
62-44-2	phenacetin	U	10000
92-67-1	4-aminobiphenyl	U	10000
23950-58-5	pronamide (propyzamide)	U	10000
82-68-8	pentachloronitrobenzene	U	10000
92-87-5	benzidine	U	10000
60-11-7	p-dimethylaminoazobenzene	U	10000
57-97-6	7,12-dimethbenz(a)anthracene	U	10000
56-49-5	3-methylchloranthrene	U	10000
57-74-9	chlordane	U	100000
8001-35-2	toxaphene	T	100000
12674-11-2	PCB-1016	U	100000
11104-28-2	PCB-1221	U	100000
11141-16-5	PCB-1232	U	100000
53469-21-9	PCB-1242	U	100000
12672-29-6	PCB-1248	U	100000
11097-69-1	PCB-1254	U	100000
11096-82-5	PCB-1260	U	100000

See footnotes on Page 4.

ANALYTICAL REPORT FOR SAMPLE No. EK4371

NON-TARGET ANALYTE RESULTS
Additional Semi-Volatiles

Field Sample ID B00ZQ7

Cas. No	COMPOUND	Scan Number	Results ug/Kg	Footnotes
	NITROGEN CONTAINING PNA MW=167	1433	2700	NEW
	PNA, MW=192	1478	1800	NEW
	PNA, MW=192	1482	2400	NEW
	PNA, MW=190	1497	4600	NEW
	PNA KETONE, MW=208	1529	4300	NEW
	PNA, MW=216	1682	2800	NEW
	PNA KETONE, MW=230	1764	2400	NEW
	PNA, MW=234	1782	2200	NEW
	PNA KETONE, MW=230	1797	2400	NEW
	PNA, MW=252	2111	4400	NEW

FOOTNOTES

B The analyte was found in the method blank. The reported results have been adjusted for the quantity found in the blank.

E The reported concentration is an estimate only. The response factor was assumed to be 1.000 relative to an internal standard.

J Indicates an estimated concentration below the Method Detection Limit.

K The isomer is unknown.

N Analytical standards were not analyzed for this compound.

U Not detected.

W The identification is tentative or closely related to the compound.

ANALYTICAL REPORT FOR SAMPLE No. EK4372

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID B00ZQ8 Sponsor WESTINGHOUSE HANFORD CO.

File ID ZR6EK4372D Date Extracted 09/17/91 Date of Analysis 10/03/91

DataChem ID S91-0719BC

Cas. No	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
62-75-9	N-nitroso-dimethylamine	U	20000
108-95-2	phenol	U	6600
111-44-4	bis(2-chloroethyl)ether	U	6600
95-57-8	2-chlorophenol	U	6600
541-73-1	1,3-dichlorobenzene	U	6600
106-46-7	1,4-dichlorobenzene	U	6600
100-51-6	benzyl alcohol	U	20000
95-50-1	1,2-dichlorobenzene	U	6600
95-48-7	2-methylphenol	U	6600
39638-329	bis(2-chloroisopropyl)ether	U	6600
106-44-5	4-methylphenol	U	6600
621-64-7	N-nitroso-di-n-propylamine	U	6600
67-72-1	hexachloroethane	U	6600
98-95-3	nitrobenzene	U	6600
78-59-1	isophorone	U	6600
88-75-5	2-nitrophenol	U	6600
105-67-9	2,4-dimethylphenol	U	6600
111-91-1	bis(2-chloroethoxy)methane	U	6600
65-85-0	benzoic acid	U	20000
120-83-2	2,4-dichlorophenol	U	6600
120-82-1	1,2,4-trichlorobenzene	U	6600
91-20-3	naphthalene	1200.J	6600
106-47-8	4-chloroaniline	U	6600
87-68-3	hexachlorobutadiene	U	6600
59-50-7	4-chloro-3-methylphenol	U	6600
91-57-6	2-methylnaphthalene	U	6600
77-47-4	hexachlorocyclopentadiene	U	6600
88-06-2	2,4,6-trichlorophenol	U	6600
95-95-4	2,4,5-trichlorophenol	U	1600
91-58-7	2-chloronaphthalene	U	6600
88-74-4	2-nitroaniline	U	1600
131-11-3	dimethyl phthalate	U	6600
606-20-2	2,6-dinitrotoluene	U	6600
208-96-8	acenaphthylene	U	6600
99-09-2	3-nitroaniline	U	1600
83-32-9	acenaphthene	990.J	6600
51-28-5	2,4-dinitrophenol	U	1600
100-02-7	4-nitrophenol	U	1600
132-64-9	dibenzofuran	U	6600

See footnotes on page 4.

ANALYTICAL REPORT FOR SAMPLE No. EK4372

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID B00ZQ8 Sponsor WESTINGHOUSE HANFORD CO.

Cas. No.	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
121-14-2	2,4-dinitrotoluene	U	6600
84-66-2	diethyl phthalate	U	6600
7005-72-3	4-chlorophenyl-phenylether	U	6600
86-73-7	fluorene	1200.J	6600
100-01-6	4-nitroaniline	U	16000
534-52-1	2-methyl-4,6-dinitrophenol	U	16000
86-30-6	N-nitroso-diphenylamine	U	6600
122-66-7	1,2-diphenylhydrazine	U	20000
101-55-3	4-bromophenyl-phenylether	U	6600
319-84-6	.alpha.-BHC	U	20000
319-85-7	beta-BHC	U	100000
118-74-1	hexachlorobenzene	U	6600
87-86-5	pentachlorophenol	U	1600
58-89-9	.gamma.-BHC	U	100000
85-01-8	phenanthrene	7800.	6600
120-12-7	anthracene	740.J	6600
319-86-8	delta-BHC	U	100000
76-44-8	heptachlor	U	100000
84-74-2	di-n-butyl phthalate	U	6600
309-00-2	aldrin	U	100000
1024-57-3	heptachlor epoxide	U	100000
206-44-0	fluoranthene	8700.	6600
129-00-0	pyrene	7000.	6600
959-98-8	endosulfan I	U	100000
72-55-9	4,4'DDE	U	100000
60-57-1	dieldrin	U	100000
7421-93-4	endrin aldehyde	U	100000
72-20-8	endrin	U	100000
72-54-8	4,4'DDD	U	100000
33213-65-9	endosulfan II	U	100000
85-68-7	butylbenzylphthalate	U	6600
50-29-3	4,4'DDT	U	100000
1031-07-8	endosulfan sulfate	U	100000
72-43-5	p,p'-methoxychlor	U	20000
91-94-1	3,3'-dichlorobenzidine	U	20000
56-55-3	benzo(a)anthracene	4100.J	6600
117-81-7	bis(2-ethylhexyl)phthalate	U	6600
218-01-9	chrysene	3900.J	6600
117-84-0	di-n-octylphthalate	U	6600

See footnotes on Page 4.

9613424.0592

ANALYTICAL REPORT FOR SAMPLE No. EK4372

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID B00ZQ8 Sponsor WESTINGHOUSE HANFORD CO.

Cas. No.	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
205-99-2	benzo(b)fluoranthene	3500.J	6600
207-08-9	benzo(k)fluoranthene	3500.J	6600
50-32-8	benzo(a)pyrene	2400.J	6600
193-39-5	indeno(1,2,3-cd)pyrene	U	6600
53-70-3	dibenzo(a,h)anthracene	U	6600
191-24-2	benzo(g,h,i)perylene	U	6600
53494-70-5	endrin ketone	U	20000
109-06-8	2-picoline	U	20000
62-50-0	ethyl methanesulfonate	U	20000
66-27-3	methyl methanesulfonate	U	20000
62-53-3	aniline	U	20000
98-86-2	acetophenone	U	20000
100-75-4	N-nitroso-piperidine	U	20000
122-09-8	a,a-dimethylphenethylamine	U	20000
87-65-0	2,6-dichlorophenol	U	20000
924-16-3	N-nitroso-di-n-butylamine	U	20000
95-94-3	1,2,4,5-tetrachlorobenzene	U	20000
90-13-1	1-chloronaphthalene	U	20000
608-93-5	pentachlorobenzene	U	20000
134-32-7	1-naphthylamine	U	20000
58-90-2	2,3,4,6-tetrachlorophenol	U	20000
91-59-8	2-naphthylamine	U	20000
62-44-2	phenacetin	U	20000
92-67-1	4-aminobiphenyl	U	20000
23950-58-5	pronamide (propyzamide)	U	20000
82-68-8	pentachloronitrobenzene	U	20000
92-87-5	benzidine	U	20000
60-11-7	p-dimethylaminoazobenzene	U	20000
57-97-6	7,12-dimethbenz(a)anthracene	U	20000
56-49-5	3-methylchloranthrene	U	20000
57-74-9	chlordane	U	200000
8001-35-2	toxaphene	U	200000
12674-11-2	PCB-1016	P	200000
11104-28-2	PCB-1221	P	200000
11141-16-5	PCB-1232	P	200000
53469-21-9	PCB-1242	P	200000
12672-29-6	PCB-1248	P	200000
11097-69-1	PCB-1254	P	200000
11096-82-5	PCB-1260	P	200000

See footnotes on Page 4.

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ANALYTICAL REPORT FOR SAMPLE No. EK4372

NON-TARGET ANALYTE RESULTS
Additional Semi-Volatiles

Field Sample ID BOOZO8

Cas. No	COMPOUND	Scan Number	Results ug/Kg	Footnotes
	UNK OXY H.C.	1416	30000	NEW
	UNK POLYCYCLIC H.C.	1422	24000	NEW
	UNK POLYCYCLIC H.C.	1444	24000	NEW
	UNK OXY H.C.	1456	49000	NEW
	UNK POLYCYCLIC H.C.	1473	26000	NEW
	UNK OXY H.C.	1500	26000	NEW
	UNK OXY H.C.	1510	23000	NEW
	UNK POLYCYCLIC H.C.	1520	26000	NEW
	UNK OXY H.C.	1530	23000	NEW
	UNK CYCLIC H.C.	1547	36000	NEW

FOOTNOTES

B The analyte was found in the method blank. The reported results have been adjusted for the quantity found in the blank.

E The reported concentration is an estimate only. The response factor was assumed to be 1.000 relative to an internal standard.

J Indicates an estimated concentration below the Method Detection Limit.

K The isomer is unknown.

N Analytical standards were not analyzed for this compound.

U Not detected.

W The identification is tentative or closely related to the compound.

9613424.0594

ANALYTICAL REPORT FOR SAMPLE No. EK4373

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID B00Z09 Sponsor WESTINGHOUSE HANFORD CO.

File ID ZM15EK4373D Date Extracted 09/17/91 Date of Analysis 10/01/91

DataChem ID S91-0719BC

Cas. No	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
62-75-9	N-nitroso-dimethylamine	U	10000
108-95-2	phenol	U	3300
111-44-4	bis(2-chloroethyl)ether	U	3300
95-57-8	2-chlorophenol	U	3300
541-73-1	1,3-dichlorobenzene	U	3300
106-46-7	1,4-dichlorobenzene	U	3300
100-51-6	benzyl alcohol	U	10000
95-50-1	1,2-dichlorobenzene	U	3300
95-48-7	2-methylphenol	U	3300
39638-329	bis(2-chloroisopropyl)ether	U	3300
106-44-5	4-methylphenol	U	3300
621-64-7	N-nitroso-di-n-propylamine	U	3300
67-72-1	hexachloroethane	U	3300
98-95-3	nitrobenzene	U	3300
78-59-1	isophorone	U	3300
88-75-5	2-nitrophenol	U	3300
105-67-9	2,4-dimethylphenol	U	3300
111-91-1	bis(2-chloroethoxy)methane	U	3300
65-85-0	benzoic acid	U	10000
120-83-2	2,4-dichlorophenol	U	3300
120-82-1	1,2,4-trichlorobenzene	U	3300
91-20-3	naphthalene	6700.	3300
106-47-8	4-chloroaniline	U	3300
87-68-3	hexachlorobutadiene	U	3300
59-50-7	4-chloro-3-methylphenol	U	3300
91-57-6	2-methylnaphthalene	1800.J	3300
77-47-4	hexachlorocyclopentadiene	U	3300
88-06-2	2,4,6-trichlorophenol	U	3300
95-95-4	2,4,5-trichlorophenol	U	8000
91-58-7	2-chloronaphthalene	U	3300
88-74-4	2-nitroaniline	U	8000
131-11-3	dimethyl phthalate	U	3300
606-20-2	2,6-dinitrotoluene	U	3300
208-96-8	acenaphthylene	280.J	3300
99-09-2	3-nitroaniline	U	8000
83-32-9	acenaphthene	5900.	3300
51-28-5	2,4-dinitrophenol	U	8000
100-02-7	4-nitrophenol	U	8000
132-64-9	dibenzofuran	4100.	3300

See footnotes on page 4.

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ANALYTICAL REPORT FOR SAMPLE No. EK4373

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZQ9 Sponsor WESTINGHOUSE HANFORD CO.

Cas. No.	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
121-14-2	2,4-dinitrotoluene	U	3300
84-66-2	diethyl phthalate	U	3300
7005-72-3	4-chlorophenyl-phenylether	U	3300
86-73-7	fluorene	6400.	3300
100-01-6	4-nitroaniline	U	8000
534-52-1	2-methyl-4,6-dinitrophenol	U	8000
86-30-6	N-nitroso-diphenylamine	U	3300
122-66-7	1,2-diphenylhydrazine	U	10000
101-55-3	4-bromophenyl-phenylether	U	3300
319-84-6	.alpha.-BHC	U	10000
319-85-7	beta-BHC	U	50000
118-74-1	hexachlorobenzene	U	3300
87-86-5	pentachlorophenol	U	8000
58-89-9	.gamma.-BHC	U	10000
85-01-8	phenanthrene	51000.	3300
120-12-7	anthracene	8700.	3300
319-86-8	delta-BHC	U	50000
76-44-8	heptachlor	U	50000
84-74-2	di-n-butyl phthalate	U	3300
309-00-2	aldrin	U	50000
1024-57-3	heptachlor epoxide	U	50000
206-44-0	fluoranthene	55000.	3300
129-00-0	pyrene	47000.	3300
959-98-8	endosulfan I	U	50000
72-55-9	4,4'DDE	U	50000
60-57-1	dieldrin	U	50000
7421-93-4	endrin aldehyde	U	50000
72-20-8	endrin	U	50000
72-54-8	4,4'DDD	U	50000
33213-65-9	endosulfan II	U	50000
85-68-7	butylbenzylphthalate	U	3300
50-29-3	4,4'DDT	U	50000
1031-07-8	endosulfan sulfate	U	50000
72-43-5	p,p'-methoxychlor	U	10000
91-94-1	3,3'-dichlorobenzidine	U	10000
56-55-3	benzo(a)anthracene	23000.	3300
117-81-7	bis(2-ethylhexyl)phthalate	U	3300
218-01-9	chrysene	27000.	3300
117-84-0	di-n-octylphthalate	U	3300

See footnotes on Page 4.

ANALYTICAL REPORT FOR SAMPLE No. EK4373

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZQ9 Sponsor WESTINGHOUSE HANFORD CO.

Cas. No.	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
205-99-2	benzo(b)fluoranthene	19000.	3300
207-08-9	benzo(k)fluoranthene	18000.	3300
50-32-8	benzo(a)pyrene	19000.	3300
193-39-5	indeno(1,2,3-cd)pyrene	14000.	3300
53-70-3	dibenzo(a,h)anthracene	4800.	3300
191-24-2	benzo(g,h,i)perylene	17000.	3300
53494-70-5	endrin ketone	U	10000
109-06-8	2-picoline	U	10000
62-50-0	ethyl methanesulfonate	U	10000
66-27-3	methyl methanesulfonate	U	10000
62-53-3	aniline	U	10000
98-86-2	acetophenone	U	10000
100-75-4	N-nitroso-piperidine	U	10000
122-09-8	a,a-dimethylphenethylamine	U	10000
87-65-0	2,6-dichlorophenol	U	10000
924-16-3	N-nitroso-di-n-butylamine	U	10000
95-94-3	1,2,4,5-tetrachlorobenzene	U	10000
90-13-1	1-chloronaphthalene	U	10000
608-93-5	pentachlorobenzene	U	10000
134-32-7	1-naphthylamine	U	10000
58-90-2	2,3,4,6-tetrachlorophenol	U	10000
91-59-8	2-naphthylamine	U	10000
62-44-2	phenacetin	U	10000
92-67-1	4-aminobiphenyl	U	10000
23950-58-5	pronamide (propyzamide)	U	10000
82-68-8	pentachloronitrobenzene	U	10000
92-87-5	benzidine	U	10000
60-11-7	p-dimethylaminoazobenzene	U	10000
57-97-6	7,12-dimethbenz(a)anthracene	U	10000
56-49-5	3-methylchloranthrene	U	10000
57-74-9	chlordane	U	100000
8001-35-2	toxaphene	T	100000
12674-11-2	PCB-1016	U	100000
11104-28-2	PCB-1221	U	100000
11141-16-5	PCB-1232	U	100000
53469-21-9	PCB-1242	U	100000
12672-29-6	PCB-1248	U	100000
11097-69-1	PCB-1254	U	100000
11096-82-5	PCB-1260	U	100000

See footnotes on Page 4.

ANALYTICAL REPORT FOR SAMPLE No. EK4373

NON-TARGET ANALYTE RESULTS
Additional Semi-Volatiles

Field Sample ID B00Z09

Cas. No	COMPOUND	Scan Number	Results ug/Kg	Footnotes
	NITROGEN CONTAINING PNA, MW=167	1434	11000	NEW
	UNK BICYCLIC H.C.	1445	16000	NEW
	PNA, MW=192	1478	8200	NEW
	PNA, MW=192 PLUS MIXED SPECTRA	1483	24000	NEW
	PNA, MW=190	1498	28000	NEW
	UNK POLYCYCLIC H.C.	1531	17000	NEW
	UNK POLYCYCLIC H.C.	1549	9500	NEW
	UNK POLYCYCLIC H.C.	1560	10000	NEW
	UNK POLYCYCLIC H.C.	1644	10000	NEW
	PNA, MW=216	1683	13000	NEW

FOOTNOTES

B The analyte was found in the method blank. The reported results have been adjusted for the quantity found in the blank.
E The reported concentration is an estimate only. The response factor was assumed to be 1.000 relative to an internal standard.
J Indicates an estimated concentration below the Method Detection Limit.
K The isomer is unknown.
N Analytical standards were not analyzed for this compound.
U Not detected.
W The identification is tentative or closely related to the compound.

ANALYTICAL REPORT FOR SAMPLE No. EK4374

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZR0 Sponsor WESTINGHOUSE HANFORD CO.

File ID ZS13EK4374D Date Extracted 09/17/91 Date of Analysis 10/04/91

DataChem ID S91-0719BC

Cas. No	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
62-75-9	N-nitroso-dimethylamine	U	10000
108-95-2	phenol	U	3300
111-44-4	bis(2-chloroethyl)ether	U	3300
95-57-8	2-chlorophenol	U	3300
541-73-1	1,3-dichlorobenzene	U	3300
106-46-7	1,4-dichlorobenzene	U	3300
100-51-6	benzyl alcohol	U	10000
95-50-1	1,2-dichlorobenzene	U	3300
95-48-7	2-methylphenol	U	3300
39638-329	bis(2-chloroisopropyl)ether	U	3300
106-44-5	4-methylphenol	U	3300
621-64-7	N-nitroso-di-n-propylamine	U	3300
67-72-1	hexachloroethane	U	3300
98-95-3	nitrobenzene	U	3300
78-59-1	isophorone	U	3300
88-75-5	2-nitrophenol	U	3300
105-67-9	2,4-dimethylphenol	U	3300
111-91-1	bis(2-chloroethoxy)methane	U	3300
65-85-0	benzoic acid	U	10000
120-83-2	2,4-dichlorophenol	U	3300
120-82-1	1,2,4-trichlorobenzene	U	3300
91-20-3	naphthalene	2200.J	3300
106-47-8	4-chloroaniline	U	3300
87-68-3	hexachlorobutadiene	U	3300
59-50-7	4-chloro-3-methylphenol	U	3300
91-57-6	2-methylnaphthalene	U	3300
77-47-4	hexachlorocyclopentadiene	U	3300
88-06-2	2,4,6-trichlorophenol	U	3300
95-95-4	2,4,5-trichlorophenol	U	8000
91-58-7	2-chloronaphthalene	U	3300
88-74-4	2-nitroaniline	U	8000
131-11-3	dimethyl phthalate	U	3300
606-20-2	2,6-dinitrotoluene	U	3300
208-96-8	acenaphthylene	U	3300
99-09-2	3-nitroaniline	U	8000
83-32-9	acenaphthene	2900.J	3300
51-28-5	2,4-dinitrophenol	U	8000
100-02-7	4-nitrophenol	U	8000
132-64-9	dibenzofuran	1800.J	3300

See footnotes on page 4.

ANALYTICAL REPORT FOR SAMPLE No. EK4374

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZR0 Sponsor WESTINGHOUSE HANFORD CO.

Cas. No.	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
121-14-2	2,4-dinitrotoluene	U	3300
84-66-2	diethyl phthalate	U	3300
7005-72-3	4-chlorophenyl-phenylether	U	3300
86-73-7	fluorene	2300.J	3300
100-01-6	4-nitroaniline	U	8000
534-52-1	2-methyl-4,6-dinitrophenol	U	8000
86-30-6	N-nitroso-diphenylamine	U	3300
122-66-7	1,2-diphenylhydrazine	U	10000
101-55-3	4-bromophenyl-phenylether	U	3300
319-84-6	.alpha.-BHC	U	10000
319-85-7	beta-BHC	U	50000
118-74-1	hexachlorobenzene	U	3300
87-86-5	pentachlorophenol	U	8000
58-89-9	.gamma.-BHC	U	10000
85-01-8	phenanthrene	31000.	3300
120-12-7	anthracene	4100.	3300
319-86-8	delta-BHC	U	50000
76-44-8	heptachlor	U	50000
84-74-2	di-n-butyl phthalate	U	3300
309-00-2	aldrin	U	50000
1024-57-3	heptachlor epoxide	U	50000
206-44-0	fluoranthene	32000.	3300
129-00-0	pyrene	29000.	3300
959-98-8	endosulfan I	U	50000
72-55-9	4,4'DDE	U	50000
60-57-1	dieldrin	U	50000
7421-93-4	endrin aldehyde	U	50000
72-20-8	endrin	U	50000
72-54-8	4,4'DDD	U	50000
33213-65-9	endosulfan II	U	50000
85-68-7	butylbenzylphthalate	U	3300
50-29-3	4,4'DDT	U	50000
1031-07-8	endosulfan sulfate	U	50000
72-43-5	p,p'-methoxychlor	U	10000
91-94-1	3,3'-dichlorobenzidine	U	10000
56-55-3	benzo(a)anthracene	12000.	3300
117-81-7	bis(2-ethylhexyl)phthalate	U	3300
218-01-9	chrysene	16000.	3300
117-84-0	di-n-octylphthalate	U	3300

See footnotes on Page 4.

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ANALYTICAL REPORT FOR SAMPLE No. EK4374

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZR0 Sponsor WESTINGHOUSE HANFORD CO.

Cas. No.	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
205-99-2	benzo(b)fluoranthene	11000.	3300
207-08-9	benzo(k)fluoranthene	10000.	3300
50-32-8	benzo(a)pyrene	10000.	3300
193-39-5	indeno(1,2,3-cd)pyrene	7500.	3300
53-70-3	dibenzo(a,h)anthracene	2600.J	3300
191-24-2	benzo(g,h,i)perylene	9100.	3300
53494-70-5	endrin ketone	U	10000
109-06-8	2-picoline	U	10000
62-50-0	ethyl methanesulfonate	U	10000
66-27-3	methyl methanesulfonate	U	10000
62-53-3	aniline	U	10000
98-86-2	acetophenone	U	10000
100-75-4	N-nitroso-piperidine	U	10000
122-09-8	a,a-dimethylphenethylamine	U	10000
87-65-0	2,6-dichlorophenol	U	10000
924-16-3	N-nitroso-di-n-butylamine	U	10000
95-94-3	1,2,4,5-tetrachlorobenzene	U	10000
90-13-1	1-chloronaphthalene	U	10000
608-93-5	pentachlorobenzene	U	10000
134-32-7	1-naphthylamine	U	10000
58-90-2	2,3,4,6-tetrachlorophenol	U	10000
91-59-8	2-naphthylamine	U	10000
62-44-2	phenacetin	U	10000
92-67-1	4-aminobiphenyl	U	10000
23950-58-5	pronamide (propyzamide)	U	10000
82-68-8	pentachloronitrobenzene	U	10000
92-87-5	benzidine	U	10000
60-11-7	p-dimethylaminoazobenzene	U	10000
57-97-6	7,12-dimethbenz(a)anthracene	U	10000
56-49-5	3-methylchloranthrene	U	10000
57-74-9	chlordane	U	100000
8001-35-2	toxaphene	U	100000
12674-11-2	PCB-1016	U	100000
11104-28-2	PCB-1221	U	100000
11141-16-5	PCB-1232	U	100000
53469-21-9	PCB-1242	U	100000
12672-29-6	PCB-1248	U	100000
11097-69-1	PCB-1254	U	100000
11096-82-5	PCB-1260	U	100000

See footnotes on Page 4.

ANALYTICAL REPORT FOR SAMPLE No. EK4374

NON-TARGET ANALYTE RESULTS
Additional Semi-Volatiles

Field Sample ID BOOZR0

Cas. No	COMPOUND	Scan Number	Results ug/Kg	Footnotes
	NITROGEN CONTAINING PNA, MW=167	1395	4200	NEW
	C1 PNA, MW=192	1437	3100	NEW
	C1 PNA, MW=192	1442	4200	NEW
	DI OXY PNA, MW=208	1489	6800	NEW
	PNA, MW=204	1540	2500	NEW
	PNA, MW=216	1640	5500	NEW
	OXY PNA, MW=230	1723	4300	NEW
	OXY PNA, MW=230	1755	4100	NEW
	PNA, MW=228	1796	3000	NEW
	PNA, MW=252	2032	12000	NEW

FOOTNOTES

B The analyte was found in the method blank. The reported results have been adjusted for the quantity found in the blank.

E The reported concentration is an estimate only. The response factor was assumed to be 1.000 relative to an internal standard.

J Indicates an estimated concentration below the Method Detection Limit.

K The isomer is unknown.

N Analytical standards were not analyzed for this compound.

U Not detected.

W The identification is tentative or closely related to the compound.

9613424.0602

ANALYTICAL REPORT FOR SAMPLE No. EK4375

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZR1 Sponsor WESTINGHOUSE HANFORD CO.

File ID ZR11EK75D Date Extracted 09/17/91 Date of Analysis 10/04/91

DataChem ID S91-0719BC

Cas. No	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
62-75-9	N-nitroso-dimethylamine	U	10000
108-95-2	phenol	U	3300
111-44-4	bis(2-chloroethyl)ether	U	3300
95-57-8	2-chlorophenol	U	3300
541-73-1	1,3-dichlorobenzene	U	3300
106-46-7	1,4-dichlorobenzene	U	3300
100-51-6	benzyl alcohol	U	10000
95-50-1	1,2-dichlorobenzene	U	3300
95-48-7	2-methylphenol	U	3300
39638-329	bis(2-chloroisopropyl)ether	U	3300
106-44-5	4-methylphenol	U	3300
621-64-7	N-nitroso-di-n-propylamine	U	3300
67-72-1	hexachloroethane	U	3300
98-95-3	nitrobenzene	U	3300
78-59-1	isophorone	U	3300
88-75-5	2-nitrophenol	U	3300
105-67-9	2,4-dimethylphenol	U	3300
111-91-1	bis(2-chloroethoxy)methane	U	3300
65-85-0	benzoic acid	U	10000
120-83-2	2,4-dichlorophenol	U	3300
120-82-1	1,2,4-trichlorobenzene	U	3300
91-20-3	naphthalene	690.J	3300
106-47-8	4-chloroaniline	U	3300
87-68-3	hexachlorobutadiene	U	3300
59-50-7	4-chloro-3-methylphenol	U	3300
91-57-6	2-methylnaphthalene	U	3300
77-47-4	hexachlorocyclopentadiene	U	3300
88-06-2	2,4,6-trichlorophenol	U	3300
95-95-4	2,4,5-trichlorophenol	U	8000
91-58-7	2-chloronaphthalene	U	3300
88-74-4	2-nitroaniline	U	8000
131-11-3	dimethyl phthalate	U	3300
606-20-2	2,6-dinitrotoluene	U	3300
208-96-8	acenaphthylene	U	3300
99-09-2	3-nitroaniline	U	8000
83-32-9	acenaphthene	U	3300
51-28-5	2,4-dinitrophenol	U	8000
100-02-7	4-nitrophenol	U	8000
132-64-9	dibenzofuran	U	3300

See footnotes on page 4.

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9613424.0603

ANALYTICAL REPORT FOR SAMPLE No. EK4375

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZR1 Sponsor WESTINGHOUSE HANFORD CO.

Cas. No.	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
121-14-2	2,4-dinitrotoluene	U	3300
84-66-2	diethyl phthalate	11000.	3300
7005-72-3	4-chlorophenyl-phenylether	U	3300
86-73-7	fluorene	U	3300
100-01-6	4-nitroaniline	U	8000
534-52-1	2-methyl-4,6-dinitrophenol	U	8000
86-30-6	N-nitroso-diphenylamine	U	3300
122-66-7	1,2-diphenylhydrazine	U	10000
101-55-3	4-bromophenyl-phenylether	U	3300
319-84-6	.alpha.-BHC	U	10000
319-85-7	beta-BHC	U	50000
118-74-1	hexachlorobenzene	U	3300
87-86-5	pentachlorophenol	U	8000
58-89-9	.gamma.-BHC	U	10000
85-01-8	phenanthrene	2100.J	3300
120-12-7	anthracene	400.J	3300
319-86-8	delta-BHC	U	50000
76-44-8	heptachlor	U	50000
84-74-2	di-n-butyl phthalate	U	3300
309-00-2	aldrin	U	50000
1024-57-3	heptachlor epoxide	U	50000
206-44-0	fluoranthene	2100.J	3300
129-00-0	pyrene	1800.J	3300
959-98-8	endosulfan I	U	50000
72-55-9	4,4'DDE	U	50000
60-57-1	dieldrin	U	50000
7421-93-4	endrin aldehyde	U	50000
72-20-8	endrin	U	50000
72-54-8	4,4'DDD	U	50000
33213-65-9	endosulfan II	U	50000
85-68-7	butylbenzylphthalate	U	3300
50-29-3	4,4'DDT	U	50000
1031-07-8	endosulfan sulfate	U	50000
72-43-5	p,p'-methoxychlor	U	10000
91-94-1	3,3'-dichlorobenzidine	U	10000
56-55-3	benzo(a)anthracene	830.J	3300
117-81-7	bis(2-ethylhexyl)phthalate	380.J	3300
218-01-9	chrysene	1900.J	3300
117-84-0	di-n-octylphthalate	U	3300

See footnotes on Page 4.

9613424.0604

ANALYTICAL REPORT FOR SAMPLE No. EK4375

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZR1 Sponsor WESTINGHOUSE HANFORD CO.

Cas. No.	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
205-99-2	benzo(b)fluoranthene	640.J	3300
207-08-9	benzo(k)fluoranthene	880.J	3300
50-32-8	benzo(a)pyrene	770.J	3300
193-39-5	indeno(1,2,3-cd)pyrene	U	3300
53-70-3	dibenzo(a,h)anthracene	U	3300
191-24-2	benzo(g,h,i)perylene	U	3300
53494-70-5	endrin ketone	U	10000
109-06-8	2-picoline	U	10000
62-50-0	ethyl methanesulfonate	U	10000
66-27-3	methyl methanesulfonate	U	10000
62-53-3	aniline	U	10000
98-86-2	acetophenone	U	10000
100-75-4	N-nitroso-piperidine	U	10000
122-09-8	a,a-dimethylphenethylamine	U	10000
87-65-0	2,6-dichlorophenol	U	10000
924-16-3	N-nitroso-di-n-butylamine	U	10000
95-94-3	1,2,4,5-tetrachlorobenzene	U	10000
90-13-1	1-chloronaphthalene	U	10000
608-93-5	pentachlorobenzene	U	10000
134-32-7	1-naphthylamine	U	10000
58-90-2	2,3,4,6-tetrachlorophenol	U	10000
91-59-8	2-naphthylamine	U	10000
62-44-2	phenacetin	U	10000
92-67-1	4-aminobiphenyl	U	10000
23950-58-5	pronamide (propyzamide)	U	10000
82-68-8	pentachloronitrobenzene	U	10000
92-87-5	benzidine	U	10000
60-11-7	p-dimethylaminoazobenzene	U	10000
57-97-6	7,12-dimethbenz(a)anthracene	U	10000
56-49-5	3-methylchloranthrene	U	10000
57-74-9	chlordane	U	100000
8001-35-2	toxaphene	T	100000
12674-11-2	PCB-1016	P	100000
11104-28-2	PCB-1221	P	100000
11141-16-5	PCB-1232	P	100000
53469-21-9	PCB-1242	P	100000
12672-29-6	PCB-1248	P	100000
11097-69-1	PCB-1254	P	100000
11096-82-5	PCB-1260	P	100000

See footnotes on Page 4.

9613424.0605

ANALYTICAL REPORT FOR SAMPLE No. EK4375

NON-TARGET ANALYTE RESULTS
Additional Semi-Volatiles

Field Sample ID BOOZR1

Cas. No	COMPOUND	Scan Number	Results ug/Kg	Footnotes
	UNK CYCLIC H.C.	1436	1900	NEW
	UNK CYCLIC H.C.	1483	2200	NEW
	UNK OXY H.C.	1502	2200	NEW
	UNK OXY H.C.	1511	1600	NEW
	UNK POLYCYCLIC H.C.	1531	1700	NEW
	UNK POLYCYCLIC H.C.	1637	2200	NEW
	UNK POLYCYCLIC H.C.	1645	2200	NEW
	UNK POLYCYCLIC H.C.	1654	1600	NEW
	UNK POLYCYCLIC H.C.	1672	2000	NEW
	UNK POLYCYCLIC H.C.	1704	2300	NEW

FOOTNOTES

- B The analyte was found in the method blank. The reported results have been adjusted for the quantity found in the blank.
- E The reported concentration is an estimate only. The response factor was assumed to be 1.000 relative to an internal standard.
- J Indicates an estimated concentration below the Method Detection Limit.
- K The isomer is unknown.
- N Analytical standards were not analyzed for this compound.
- U Not detected.
- W The identification is tentative or closely related to the compound.

ANALYTICAL REPORT FOR SAMPLE No. EK4376

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZR2 Sponsor WESTINGHOUSE HANFORD CO.

File ID ZR12EK76D Date Extracted 09/17/91 Date of Analysis 10/04/91

DataChem ID S91-0719BC

Cas. No	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
62-75-9	N-nitroso-dimethylamine	U	10000
108-95-2	phenol	U	3300
111-44-4	bis(2-chloroethyl)ether	U	3300
95-57-8	2-chlorophenol	U	3300
541-73-1	1,3-dichlorobenzene	U	3300
106-46-7	1,4-dichlorobenzene	U	3300
100-51-6	benzyl alcohol	U	10000
95-50-1	1,2-dichlorobenzene	U	3300
95-48-7	2-methylphenol	U	3300
39638-329	bis(2-chloroisopropyl)ether	U	3300
106-44-5	4-methylphenol	U	3300
621-64-7	N-nitroso-di-n-propylamine	U	3300
67-72-1	hexachloroethane	U	3300
98-95-3	nitrobenzene	U	3300
78-59-1	isophorone	U	3300
88-75-5	2-nitrophenol	U	3300
105-67-9	2,4-dimethylphenol	U	3300
111-91-1	bis(2-chloroethoxy)methane	U	3300
65-85-0	benzoic acid	U	10000
120-83-2	2,4-dichlorophenol	U	3300
120-82-1	1,2,4-trichlorobenzene	U	3300
91-20-3	naphthalene	U	3300
106-47-8	4-chloroaniline	U	3300
87-68-3	hexachlorobutadiene	U	3300
59-50-7	4-chloro-3-methylphenol	U	3300
91-57-6	2-methylnaphthalene	U	3300
77-47-4	hexachlorocyclopentadiene	U	3300
88-06-2	2,4,6-trichlorophenol	U	3300
95-95-4	2,4,5-trichlorophenol	U	8000
91-58-7	2-chloronaphthalene	U	3300
88-74-4	2-nitroaniline	U	8000
131-11-3	dimethyl phthalate	U	3300
606-20-2	2,6-dinitrotoluene	U	3300
208-96-8	acenaphthylene	U	3300
99-09-2	3-nitroaniline	U	8000
83-32-9	acenaphthene	U	3300
51-28-5	2,4-dinitrophenol	U	8000
100-02-7	4-nitrophenol	U	8000
132-64-9	dibenzofuran	U	3300

See footnotes on page 4.

9613424.0607

ANALYTICAL REPORT FOR SAMPLE No. EK4376

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZR2 Sponsor WESTINGHOUSE HANFORD CO.

Cas. No.	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
121-14-2	2,4-dinitrotoluene	U	3300
84-66-2	diethyl phthalate	U	3300
7005-72-3	4-chlorophenyl-phenylether	U	3300
86-73-7	fluorene	U	3300
100-01-6	4-nitroaniline	U	8000
534-52-1	2-methyl-4,6-dinitrophenol	U	8000
86-30-6	N-nitroso-diphenylamine	U	3300
122-66-7	1,2-diphenylhydrazine	U	10000
101-55-3	4-bromophenyl-phenylether	U	3300
319-84-6	.alpha.-BHC	U	10000
319-85-7	beta-BHC	U	50000
118-74-1	hexachlorobenzene	U	3300
87-86-5	pentachlorophenol	U	8000
58-89-9	.gamma.-BHC	U	10000
85-01-8	phenanthrene	1700.J	3300
120-12-7	anthracene	U	3300
319-86-8	delta-BHC	U	50000
76-44-8	heptachlor	U	50000
84-74-2	di-n-butyl phthalate	U	3300
309-00-2	aldrin	U	50000
1024-57-3	heptachlor epoxide	U	50000
206-44-0	fluoranthene	1300.J	3300
129-00-0	pyrene	1000.J	3300
959-98-8	endosulfan I	U	50000
72-55-9	4,4'DDE	U	50000
60-57-1	dieldrin	U	50000
7421-93-4	endrin aldehyde	U	50000
72-20-8	endrin	U	50000
72-54-8	4,4'DDD	U	50000
33213-65-9	endosulfan II	U	50000
85-68-7	butylbenzylphthalate	U	3300
50-29-3	4,4'DDT	U	50000
1031-07-8	endosulfan sulfate	U	50000
72-43-5	p,p'-methoxychlor	U	10000
91-94-1	3,3'-dichlorobenzidine	U	10000
56-55-3	benzo(a)anthracene	U	3300
117-81-7	bis(2-ethylhexyl)phthalate	480.J	3300
218-01-9	chrysene	720.J	3300
117-84-0	di-n-octylphthalate	U	3300

See footnotes on Page 4.

9613424.0608

ANALYTICAL REPORT FOR SAMPLE No. EK4376

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZR2 Sponsor WESTINGHOUSE HANFORD CO.

Cas. No.	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
205-99-2	benzo(b)fluoranthene	310.J	3300
207-08-9	benzo(k)fluoranthene	510.J	3300
50-32-8	benzo(a)pyrene	U	3300
193-39-5	indeno(1,2,3-cd)pyrene	U	3300
53-70-3	dibenzo(a,h)anthracene	U	3300
191-24-2	benzo(g,h,i)perylene	U	3300
53494-70-5	endrin ketone	U	10000
109-06-8	2-picoline	U	10000
62-50-0	ethyl methanesulfonate	U	10000
66-27-3	methyl methanesulfonate	U	10000
62-53-3	aniline	U	10000
98-86-2	acetophenone	U	10000
100-75-4	N-nitroso-piperidine	U	10000
122-09-8	a,a-dimethylphenethylamine	U	10000
87-65-0	2,6-dichlorophenol	U	10000
924-16-3	N-nitroso-di-n-butylamine	U	10000
95-94-3	1,2,4,5-tetrachlorobenzene	U	10000
90-13-1	1-chloronaphthalene	U	10000
608-93-5	pentachlorobenzene	U	10000
134-32-7	1-naphthylamine	U	10000
58-90-2	2,3,4,6-tetrachlorophenol	U	10000
91-59-8	2-naphthylamine	U	10000
62-44-2	phenacetin	U	10000
92-67-1	4-aminobiphenyl	U	10000
23950-58-5	pronamide (propyzamide)	U	10000
82-68-8	pentachloronitrobenzene	U	10000
92-87-5	benzidine	U	10000
60-11-7	p-dimethylaminoazobenzene	U	10000
57-97-6	7,12-dimethbenz(a)anthracene	U	10000
56-49-5	3-methylchloranthrene	U	10000
57-74-9	chlordane	U	100000
8001-35-2	toxaphene	U	100000
12674-11-2	PCB-1016	P	100000
11104-28-2	PCB-1221	P	100000
11141-16-5	PCB-1232	P	100000
53469-21-9	PCB-1242	P	100000
12672-29-6	PCB-1248	P	100000
11097-69-1	PCB-1254	P	100000
11096-82-5	PCB-1260	P	100000

See footnotes on Page 4.

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ANALYTICAL REPORT FOR SAMPLE No. EK4376

NON-TARGET ANALYTE RESULTS
Additional Semi-Volatiles

Field Sample ID BOOZR2

Cas. No	COMPOUND	Scan Number	Results ug/KG	Footnotes
	UNK POLYCYCLIC H.C.	1106	14000	NEW
	UNK POLYCYCLIC H.C.	1174	7500	NEW
	UNK POLYCYCLIC H.C.	1185	10000	NEW
	UNK POLYCYCLIC H.C.	1343	21000	NEW
	UNK POLYCYCLIC H.C.	1362	18000	NEW
	UNK POLYCYCLIC H.C.	1381	26000	NEW
	UNK POLYCYCLIC H.C.	1389	19000	NEW
	UNK POLYCYCLIC H.C.	1400	35000	NEW
	UNK POLYCYCLIC H.C.	1475	15000	NEW
	UNK POLYCYCLIC H.C.	1503	19000	NEW

FOOTNOTES

B The analyte was found in the method blank. The reported results have been adjusted for the quantity found in the blank.

E The reported concentration is an estimate only. The response factor was assumed to be 1.000 relative to an internal standard.

J Indicates an estimated concentration below the Method Detection Limit.

K The isomer is unknown.

N Analytical standards were not analyzed for this compound.

U Not detected.

W The identification is tentative or closely related to the compound.

ANALYTICAL REPORT FOR SAMPLE No. EK4377

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZR3 Sponsor WESTINGHOUSE HANFORD CO.

File ID ZR10EK4377D Date Extracted 09/17/91 Date of Analysis 10/03/91

DataChem ID S91-0719BC

Cas. No	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
62-75-9	N-nitroso-dimethylamine	U	10000
108-95-2	phenol	U	3300
111-44-4	bis(2-chloroethyl)ether	U	3300
95-57-8	2-chlorophenol	U	3300
541-73-1	1,3-dichlorobenzene	U	3300
106-46-7	1,4-dichlorobenzene	U	3300
100-51-6	benzyl alcohol	U	10000
95-50-1	1,2-dichlorobenzene	U	3300
95-48-7	2-methylphenol	U	3300
39638-329	bis(2-chloroisopropyl)ether	U	3300
106-44-5	4-methylphenol	U	3300
621-64-7	N-nitroso-di-n-propylamine	U	3300
67-72-1	hexachloroethane	U	3300
98-95-3	nitrobenzene	U	3300
78-59-1	isophorone	U	3300
88-75-5	2-nitrophenol	U	3300
105-67-9	2,4-dimethylphenol	U	3300
111-91-1	bis(2-chloroethoxy)methane	U	3300
65-85-0	benzoic acid	U	10000
120-83-2	2,4-dichlorophenol	U	3300
120-82-1	1,2,4-trichlorobenzene	U	3300
91-20-3	naphthalene	U	3300
106-47-8	4-chloroaniline	U	3300
87-68-3	hexachlorobutadiene	U	3300
59-50-7	4-chloro-3-methylphenol	U	3300
91-57-6	2-methylnaphthalene	U	3300
77-47-4	hexachlorocyclopentadiene	U	3300
88-06-2	2,4,6-trichlorophenol	U	3300
95-95-4	2,4,5-trichlorophenol	U	8000
91-58-7	2-chloronaphthalene	U	3300
88-74-4	2-nitroaniline	U	8000
131-11-3	dimethyl phthalate	U	3300
606-20-2	2,6-dinitrotoluene	U	3300
208-96-8	acenaphthylene	U	3300
99-09-2	3-nitroaniline	U	8000
83-32-9	acenaphthene	U	3300
51-28-5	2,4-dinitrophenol	U	8000
100-02-7	4-nitrophenol	U	8000
132-64-9	dibenzofuran	U	3300

See footnotes on page 4.

9613424.0611

ANALYTICAL REPORT FOR SAMPLE No. EK4377

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZR3 Sponsor WESTINGHOUSE HANFORD CO.

Cas. No.	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
121-14-2	2,4-dinitrotoluene	U	3300
84-66-2	diethyl phthalate	U	3300
7005-72-3	4-chlorophenyl-phenylether	U	3300
86-73-7	fluorene	U	3300
100-01-6	4-nitroaniline	U	8000
534-52-1	2-methyl-4,6-dinitrophenol	U	8000
86-30-6	N-nitroso-diphenylamine	U	3300
122-66-7	1,2-diphenylhydrazine	U	10000
101-55-3	4-bromophenyl-phenylether	U	3300
319-84-6	.alpha.-BHC	U	10000
319-85-7	beta-BHC	U	50000
118-74-1	hexachlorobenzene	U	3300
87-86-5	pentachlorophenol	U	8000
58-89-9	.gamma.-BHC	U	10000
85-01-8	phenanthrene	1300.J	3300
120-12-7	anthracene	U	3300
319-86-8	delta-BHC	U	50000
76-44-8	heptachlor	U	50000
84-74-2	di-n-butyl phthalate	U	3300
309-00-2	aldrin	U	50000
1024-57-3	heptachlor epoxide	U	50000
206-44-0	fluoranthene	1300.J	3300
129-00-0	pyrene	1000.J	3300
959-98-8	endosulfan I	U	50000
72-55-9	4,4'DDE	U	50000
60-57-1	dieldrin	U	50000
7421-93-4	endrin aldehyde	U	50000
72-20-8	endrin	U	50000
72-54-8	4,4'DDD	U	50000
33213-65-9	endosulfan II	U	50000
85-68-7	butylbenzylphthalate	U	3300
50-29-3	4,4'DDT	U	50000
1031-07-8	endosulfan sulfate	U	50000
72-43-5	p,p'-methoxychlor	U	10000
91-94-1	3,3'-dichlorobenzidine	U	10000
56-55-3	benzo(a)anthracene	310.J	3300
117-81-7	bis(2-ethylhexyl)phthalate	280.J	3300
218-01-9	chrysene	860.J	3300
117-84-0	di-n-octylphthalate	U	3300

See footnotes on Page 4.

9613424.0612

ANALYTICAL REPORT FOR SAMPLE No. EK4377

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZR3 Sponsor WESTINGHOUSE HANFORD CO.

Cas. No.	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
205-99-2	benzo(b)fluoranthene	310.J	3300
207-08-9	benzo(k)fluoranthene	400.J	3300
50-32-8	benzo(a)pyrene	300.J	3300
193-39-5	indeno(1,2,3-cd)pyrene	U	3300
53-70-3	dibenzo(a,h)anthracene	U	3300
191-24-2	benzo(g,h,i)perylene	U	3300
53494-70-5	endrin ketone	U	10000
109-06-8	2-picoline	U	10000
62-50-0	ethyl methanesulfonate	U	10000
66-27-3	methyl methanesulfonate	U	10000
62-53-3	aniline	U	10000
98-86-2	acetophenone	U	10000
100-75-4	N-nitroso-piperidine	U	10000
122-09-8	a,a-dimethylphenethylamine	U	10000
87-65-0	2,6-dichlorophenol	U	10000
924-16-3	N-nitroso-di-n-butylamine	U	10000
95-94-3	1,2,4,5-tetrachlorobenzene	U	10000
90-13-1	1-chloronaphthalene	U	10000
608-93-5	pentachlorobenzene	U	10000
134-32-7	1-naphthylamine	U	10000
58-90-2	2,3,4,6-tetrachlorophenol	U	10000
91-59-8	2-naphthylamine	U	10000
62-44-2	phenacetin	U	10000
92-67-1	4-aminobiphenyl	U	10000
23950-58-5	pronamide (propyzamide)	U	10000
82-68-8	pentachloronitrobenzene	U	10000
92-87-5	benzidine	U	10000
60-11-7	p-dimethylaminoazobenzene	U	10000
57-97-6	7,12-dimethbenz(a)anthracene	U	10000
56-49-5	3-methylchloranthrene	U	10000
57-74-9	chlordane	U	100000
8001-35-2	toxaphene	U	100000
12674-11-2	PCB-1016	P	100000
11104-28-2	PCB-1221	P	100000
11141-16-5	PCB-1232	P	100000
53469-21-9	PCB-1242	P	100000
12672-29-6	PCB-1248	P	100000
11097-69-1	PCB-1254	P	100000
11096-82-5	PCB-1260	P	100000

See footnotes on Page 4.

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9613424.0613

ANALYTICAL REPORT FOR SAMPLE No. EK4377

NON-TARGET ANALYTE RESULTS
Additional Semi-Volatiles

Field Sample ID BOOZR3

Cas. No	COMPOUND	Scan Number	Results ug/KG	Footnotes
	UNK OXY H.C.	1821	1900	NEW
	UNK POLYCYCLIC H.C.	1830	1400	NEW

FOOTNOTES

B The analyte was found in the method blank. The reported results have been adjusted for the quantity found in the blank.

E The reported concentration is an estimate only. The response factor was assumed to be 1.000 relative to an internal standard.

J Indicates an estimated concentration below the Method Detection Limit.

K The isomer is unknown.

N Analytical standards were not analyzed for this compound.

U Not detected.

W The identification is tentative or closely related to the compound.

9613424.0614

ANALYTICAL REPORT FOR SAMPLE No. EK4378

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZR4 Sponsor WESTINGHOUSE HANFORD CO.

File ID Z014EK4378 Date Extracted 09/17/91 Date of Analysis 10/03/91

DataChem ID S91-0719BC

Cas. No	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
62-75-9	N-nitroso-dimethylamine	U	10000
108-95-2	phenol	U	3300
111-44-4	bis(2-chloroethyl)ether	U	3300
95-57-8	2-chlorophenol	U	3300
541-73-1	1,3-dichlorobenzene	U	3300
106-46-7	1,4-dichlorobenzene	U	3300
100-51-6	benzyl alcohol	U	10000
95-50-1	1,2-dichlorobenzene	U	3300
95-48-7	2-methylphenol	U	3300
39638-329	bis(2-chloroisopropyl)ether	U	3300
106-44-5	4-methylphenol	U	3300
621-64-7	N-nitroso-di-n-propylamine	U	3300
67-72-1	hexachloroethane	U	3300
98-95-3	nitrobenzene	U	3300
78-59-1	isophorone	U	3300
88-75-5	2-nitrophenol	U	3300
105-67-9	2,4-dimethylphenol	U	3300
111-91-1	bis(2-chloroethoxy)methane	U	3300
65-85-0	benzoic acid	U	10000
120-83-2	2,4-dichlorophenol	U	3300
120-82-1	1,2,4-trichlorobenzene	U	3300
91-20-3	naphthalene	U	3300
106-47-8	4-chloroaniline	U	3300
87-68-3	hexachlorobutadiene	U	3300
59-50-7	4-chloro-3-methylphenol	U	3300
91-57-6	2-methylnaphthalene	U	3300
77-47-4	hexachlorocyclopentadiene	U	3300
88-06-2	2,4,6-trichlorophenol	U	3300
95-95-4	2,4,5-trichlorophenol	U	8000
91-58-7	2-chloronaphthalene	U	3300
88-74-4	2-nitroaniline	U	8000
131-11-3	dimethyl phthalate	U	3300
606-20-2	2,6-dinitrotoluene	U	3300
208-96-8	acenaphthylene	U	3300
99-09-2	3-nitroaniline	U	8000
83-32-9	acenaphthene	U	3300
51-28-5	2,4-dinitrophenol	U	8000
100-02-7	4-nitrophenol	U	8000
132-64-9	dibenzofuran	U	3300

See footnotes on page 4.

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9613424.0615

ANALYTICAL REPORT FOR SAMPLE No. EK4378

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZR4 Sponsor WESTINGHOUSE HANFORD CO.

Cas. No.	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
121-14-2	2,4-dinitrotoluene	U	3300
84-66-2	diethyl phthalate	U	3300
7005-72-3	4-chlorophenyl-phenylether	U	3300
86-73-7	fluorene	U	3300
100-01-6	4-nitroaniline	U	8000
534-52-1	2-methyl-4,6-dinitrophenol	U	8000
86-30-6	N-nitroso-diphenylamine	U	3300
122-66-7	1,2-diphenylhydrazine	U	10000
101-55-3	4-bromophenyl-phenylether	U	3300
319-84-6	.alpha.-BHC	U	10000
319-85-7	beta-BHC	U	50000
118-74-1	hexachlorobenzene	U	3300
87-86-5	pentachlorophenol	4000.J	8000
58-89-9	.gamma.-BHC	U	10000
85-01-8	phenanthrene	1000.J	3300
120-12-7	anthracene	U	3300
319-86-8	delta-BHC	U	50000
76-44-8	heptachlor	U	50000
84-74-2	di-n-butyl phthalate	U	3300
309-00-2	aldrin	U	50000
1024-57-3	heptachlor epoxide	U	50000
206-44-0	fluoranthene	900.J	3300
129-00-0	pyrene	710.J	3300
959-98-8	endosulfan I	U	50000
72-55-9	4,4'DDE	U	50000
60-57-1	dieldrin	U	50000
7421-93-4	endrin aldehyde	U	50000
72-20-8	endrin	U	50000
72-54-8	4,4'DDD	U	50000
33213-65-9	endosulfan II	U	50000
85-68-7	butylbenzylphthalate	U	3300
50-29-3	4,4'DDT	U	50000
1031-07-8	endosulfan sulfate	U	50000
72-43-5	p,p'-methoxychlor	U	10000
91-94-1	3,3'-dichlorobenzidine	U	10000
56-55-3	benzo(a)anthracene	U	3300
117-81-7	bis(2-ethylhexyl)phthalate	U	3300
218-01-9	chrysene	1200.J	3300
117-84-0	di-n-octylphthalate	U	3300

See footnotes on Page 4.

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9613424.0616

ANALYTICAL REPORT FOR SAMPLE No. EK4378

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZR4 Sponsor WESTINGHOUSE HANFORD CO.

Cas. No.	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
205-99-2	benzo(b)fluoranthene	U	3300
207-08-9	benzo(k)fluoranthene	U	3300
50-32-8	benzo(a)pyrene	U	3300
193-39-5	indeno(1,2,3-cd)pyrene	U	3300
53-70-3	dibenzo(a,h)anthracene	U	3300
191-24-2	benzo(g,h,i)perylene	U	3300
53494-70-5	endrin ketone	U	10000
109-06-8	2-picoline	U	10000
62-50-0	ethyl methanesulfonate	U	10000
66-27-3	methyl methanesulfonate	U	10000
62-53-3	aniline	U	10000
98-86-2	acetophenone	U	10000
100-75-4	N-nitroso-piperidine	U	10000
122-09-8	a,a-dimethylphenethylamine	U	10000
87-65-0	2,6-dichlorophenol	U	10000
924-16-3	N-nitroso-di-n-butylamine	U	10000
95-94-3	1,2,4,5-tetrachlorobenzene	U	10000
90-13-1	1-chloronaphthalene	U	10000
608-93-5	pentachlorobenzene	U	10000
134-32-7	1-naphthylamine	U	10000
58-90-2	2,3,4,6-tetrachlorophenol	U	10000
91-59-8	2-naphthylamine	U	10000
62-44-2	phenacetin	U	10000
92-67-1	4-aminobiphenyl	U	10000
23950-58-5	pronamide (propyzamide)	U	10000
82-68-8	pentachloronitrobenzene	U	10000
92-87-5	benzidine	U	10000
60-11-7	p-dimethylaminoazobenzene	U	10000
57-97-6	7,12-dimethbenz(a)anthracene	U	10000
56-49-5	3-methylchloranthrene	U	10000
57-74-9	chlordane	15000.	100000
8001-35-2	toxaphene	U	100000
12674-11-2	PCB-1016	U	100000
11104-28-2	PCB-1221	U	100000
11141-16-5	PCB-1232	U	100000
53469-21-9	PCB-1242	U	100000
12672-29-6	PCB-1248	U	100000
11097-69-1	PCB-1254	U	100000
11096-82-5	PCB-1260	U	100000

See footnotes on Page 4.

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9613424.0617

ANALYTICAL REPORT FOR SAMPLE No. EK4378

NON-TARGET ANALYTE RESULTS
Additional Semi-Volatiles

Field Sample ID BOOZR4

Cas. No	COMPOUND	Scan Number	Results ug/KG	Footnotes
	ALDOL CONDENSATION PRODUCT	619	1400	NEWB

FOOTNOTES

B The analyte was found in the method blank. The reported results have been adjusted for the quantity found in the blank.

E The reported concentration is an estimate only. The response factor was assumed to be 1.000 relative to an internal standard.

J Indicates an estimated concentration below the Method Detection Limit.

K The isomer is unknown.

N Analytical standards were not analyzed for this compound.

U Not detected.

W The identification is tentative or closely related to the compound.

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ANALYTICAL REPORT FOR SAMPLE No. EK4379

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZR5 Sponsor WESTINGHOUSE HANFORD CO.

File ID Z013EK4379 Date Extracted 09/17/91 Date of Analysis 10/03/91

DataChem ID S91-0719BC

Cas. No	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
62-75-9	N-nitroso-dimethylamine	U	1000
108-95-2	phenol	U	330
111-44-4	bis(2-chloroethyl)ether	U	330
95-57-8	2-chlorophenol	U	330
541-73-1	1,3-dichlorobenzene	U	330
106-46-7	1,4-dichlorobenzene	U	330
100-51-6	benzyl alcohol	U	1000
95-50-1	1,2-dichlorobenzene	U	330
95-48-7	2-methylphenol	U	330
39638-329	bis(2-chloroisopropyl)ether	U	330
106-44-5	4-methylphenol	U	330
621-64-7	N-nitroso-di-n-propylamine	U	330
67-72-1	hexachloroethane	U	330
98-95-3	nitrobenzene	U	330
78-59-1	isophorone	U	330
88-75-5	2-nitrophenol	U	330
105-67-9	2,4-dimethylphenol	U	330
111-91-1	bis(2-chloroethoxy)methane	U	330
65-85-0	benzoic acid	U	1000
120-83-2	2,4-dichlorophenol	U	330
120-82-1	1,2,4-trichlorobenzene	U	330
91-20-3	naphthalene	24.J	330
106-47-8	4-chloroaniline	U	330
87-68-3	hexachlorobutadiene	U	330
59-50-7	4-chloro-3-methylphenol	U	330
91-57-6	2-methylnaphthalene	U	330
77-47-4	hexachlorocyclopentadiene	U	330
88-06-2	2,4,6-trichlorophenol	U	330
95-95-4	2,4,5-trichlorophenol	U	800
91-58-7	2-chloronaphthalene	U	330
88-74-4	2-nitroaniline	U	800
131-11-3	dimethyl phthalate	U	330
606-20-2	2,6-dinitrotoluene	U	330
208-96-8	acenaphthylene	20.J	330
99-09-2	3-nitroaniline	U	800
83-32-9	acenaphthene	U	330
51-28-5	2,4-dinitrophenol	U	800
100-02-7	4-nitrophenol	U	800
132-64-9	dibenzofuran	U	330

See footnotes on page 4.

ANALYTICAL REPORT FOR SAMPLE No. EK4379

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZR5 Sponsor WESTINGHOUSE HANFORD CO.

Cas. No.	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
121-14-2	2,4-dinitrotoluene	U	330
84-66-2	diethyl phthalate	170.J	330
7005-72-3	4-chlorophenyl-phenylether	U	330
86-73-7	fluorene	U	330
100-01-6	4-nitroaniline	U	800
534-52-1	2-methyl-4,6-dinitrophenol	U	800
86-30-6	N-nitroso-diphenylamine	U	330
122-66-7	1,2-diphenylhydrazine	U	1000
101-55-3	4-bromophenyl-phenylether	U	330
319-84-6	.alpha.-BHC	U	1000
319-85-7	beta-BHC	U	5000
118-74-1	hexachlorobenzene	U	330
87-86-5	pentachlorophenol	5100.	800
58-89-9	.gamma.-BHC	U	1000
85-01-8	phenanthrene	480.	330
120-12-7	anthracene	17.J	330
319-86-8	delta-BHC	U	5000
76-44-8	heptachlor	U	5000
84-74-2	di-n-butyl phthalate	20.J	330
309-00-2	aldrin	U	5000
1024-57-3	heptachlor epoxide	U	5000
206-44-0	fluoranthene	470.	330
129-00-0	pyrene	400.	330
959-98-8	endosulfan I	U	5000
72-55-9	4,4'DDE	U	5000
60-57-1	dieldrin	U	5000
7421-93-4	endrin aldehyde	U	5000
72-20-8	endrin	U	5000
72-54-8	4,4'DDD	U	5000
33213-65-9	endosulfan II	U	5000
85-68-7	butylbenzylphthalate	U	330
50-29-3	4,4'DDT	U	5000
1031-07-8	endosulfan sulfate	U	5000
72-43-5	p,p'-methoxychlor	U	1000
91-94-1	3,3'-dichlorobenzidine	U	1000
56-55-3	benzo(a)anthracene	81.J	330
117-81-7	bis(2-ethylhexyl)phthalate	U	330
218-01-9	chrysene	300.J	330
117-84-0	di-n-octylphthalate	U	330

See footnotes on Page 4.

9613424.0620

ANALYTICAL REPORT FOR SAMPLE No. EK4379

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZR5 Sponsor WESTINGHOUSE HANFORD CO.

Cas. No.	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
205-99-2	benzo(b)fluoranthene	160.J	330
207-08-9	benzo(k)fluoranthene	170.J	330
50-32-8	benzo(a)pyrene	86.J	330
193-39-5	indeno(1,2,3-cd)pyrene	U	330
53-70-3	dibenzo(a,h)anthracene	U	330
191-24-2	benzo(g,h,i)perylene	U	330
53494-70-5	endrin ketone	U	1000
109-06-8	2-picoline	U	1000
62-50-0	ethyl methanesulfonate	U	1000
66-27-3	methyl methanesulfonate	U	1000
62-53-3	aniline	U	1000
98-86-2	acetophenone	U	1000
100-75-4	N-nitroso-piperidine	U	1000
122-09-8	a,a-dimethylphenethylamine	U	1000
87-65-0	2,6-dichlorophenol	U	1000
924-16-3	N-nitroso-di-n-butylamine	U	1000
95-94-3	1,2,4,5-tetrachlorobenzene	U	1000
90-13-1	1-chloronaphthalene	U	1000
608-93-5	pentachlorobenzene	U	1000
134-32-7	1-naphthylamine	U	1000
58-90-2	2,3,4,6-tetrachlorophenol	120.J	1000
91-59-8	2-naphthylamine	U	1000
62-44-2	phenacetin	U	1000
92-67-1	4-aminobiphenyl	U	1000
23950-58-5	pronamide (propyzamide)	U	1000
82-68-8	pentachloronitrobenzene	U	1000
92-87-5	benzidine	U	1000
60-11-7	p-dimethylaminoazobenzene	U	1000
57-97-6	7,12-dimethbenz(a)anthracene	U	1000
56-49-5	3-methylchloranthrene	U	1000
57-74-9	chlordane	26000.	10000
8001-35-2	toxaphene	T	10000
12674-11-2	PCB-1016	U	10000
11104-28-2	PCB-1221	U	10000
11141-16-5	PCB-1232	U	10000
53469-21-9	PCB-1242	U	10000
12672-29-6	PCB-1248	U	10000
11097-69-1	PCB-1254	U	10000
11096-82-5	PCB-1260	U	10000

See footnotes on Page 4.

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9613424.0621

ANALYTICAL REPORT FOR SAMPLE No. EK4379

NON-TARGET ANALYTE RESULTS
Additional Semi-Volatiles

Field Sample ID BOOZR5

Cas. No	COMPOUND	Scan Number	Results ug/Kg	Footnotes
	DICHLORO-ISOCYANTO BENZENE	964	360	NEW
	C1 DIBENZOTHIOPHENE	1410	200	NEW
314-40-9	2,4(1H,3H)-PYRIMIDINEDIONE, 5-BROMO	1461	310	NEW
	DI-OXY PNA, MW=208	1488	320	NEW
	C2 PHENANTHRENE	1528	200	NEW
	ALKANE @ C21	1534	340	NEW
	UNK PNA, MW=339	1562	100	NEW
	NONACHLORO-METHANO-INDENE CONGENER	1595	240	NEW
	NONACHLORO-METHANO-INDENE CONGENER	1673	120	NEW
	POLYCHLORO-METHANO-INDENE CONGENER	1688	150	NEW

FOOTNOTES

- B The analyte was found in the method blank. The reported results have been adjusted for the quantity found in the blank.
- E The reported concentration is an estimate only. The response factor was assumed to be 1.000 relative to an internal standard.
- J Indicates an estimated concentration below the Method Detection Limit.
- K The isomer is unknown.
- N Analytical standards were not analyzed for this compound.
- U Not detected.
- W The identification is tentative or closely related to the compound.

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9613424.0622

ANALYTICAL REPORT FOR SAMPLE No. EK4380

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZR6 Sponsor WESTINGHOUSE HANFORD CO.

File ID AE3EK4380 Date Extracted 09/17/91 Date of Analysis 10/15/91

DataChem ID S91-0719BC

Cas. No	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
62-75-9	N-nitroso-dimethylamine	U	100000
108-95-2	phenol	U	33000
111-44-4	bis(2-chloroethyl)ether	U	33000
95-57-8	2-chlorophenol	U	33000
541-73-1	1,3-dichlorobenzene	U	33000
106-46-7	1,4-dichlorobenzene	U	33000
100-51-6	benzyl alcohol	U	100000
95-50-1	1,2-dichlorobenzene	U	33000
95-48-7	2-methylphenol	U	33000
39638-329	bis(2-chloroisopropyl)ether	U	33000
106-44-5	4-methylphenol	U	33000
621-64-7	N-nitroso-di-n-propylamine	U	33000
67-72-1	hexachloroethane	U	33000
98-95-3	nitrobenzene	U	33000
78-59-1	isophorone	U	33000
88-75-5	2-nitrophenol	U	33000
105-67-9	2,4-dimethylphenol	U	33000
111-91-1	bis(2-chloroethoxy)methane	U	33000
65-85-0	benzoic acid	U	100000
120-83-2	2,4-dichlorophenol	U	33000
120-82-1	1,2,4-trichlorobenzene	110000.	33000
91-20-3	naphthalene	U	33000
106-47-8	4-chloroaniline	U	33000
87-68-3	hexachlorobutadiene	U	33000
59-50-7	4-chloro-3-methylphenol	U	33000
91-57-6	2-methylnaphthalene	U	33000
77-47-4	hexachlorocyclopentadiene	U	33000
88-06-2	2,4,6-trichlorophenol	U	33000
95-95-4	2,4,5-trichlorophenol	U	80000
91-58-7	2-chloronaphthalene	U	33000
88-74-4	2-nitroaniline	U	80000
131-11-3	dimethyl phthalate	U	33000
606-20-2	2,6-dinitrotoluene	U	33000
208-96-8	acenaphthylene	U	33000
99-09-2	3-nitroaniline	U	80000
83-32-9	acenaphthene	U	33000
51-28-5	2,4-dinitrophenol	U	80000
100-02-7	4-nitrophenol	U	80000
132-64-9	dibenzofuran	U	33000

See footnotes on page 4.

9613424.0623

ANALYTICAL REPORT FOR SAMPLE No. EK4380

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZR6 Sponsor WESTINGHOUSE HANFORD CO.

Cas. No.	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
121-14-2	2,4-dinitrotoluene	U	33000
84-66-2	diethyl phthalate	U	33000
7005-72-3	4-chlorophenyl-phenylether	U	33000
86-73-7	fluorene	U	33000
100-01-6	4-nitroaniline	U	80000
534-52-1	2-methyl-4,6-dinitrophenol	U	80000
86-30-6	N-nitroso-diphenylamine	U	33000
122-66-7	1,2-diphenylhydrazine	U	100000
101-55-3	4-bromophenyl-phenylether	U	33000
319-84-6	.alpha.-BHC	U	100000
319-85-7	beta-BHC	U	500000
118-74-1	hexachlorobenzene	U	33000
87-86-5	pentachlorophenol	U	80000
58-89-9	.gamma.-BHC	U	100000
85-01-8	phenanthrene	U	33000
120-12-7	anthracene	U	33000
319-86-8	delta-BHC	U	500000
76-44-8	heptachlor	U	500000
84-74-2	di-n-butyl phthalate	U	33000
309-00-2	aldrin	U	500000
1024-57-3	heptachlor epoxide	U	500000
206-44-0	fluoranthene	U	33000
129-00-0	pyrene	U	33000
959-98-8	endosulfan I	U	500000
72-55-9	4,4'DDE	U	500000
60-57-1	dieldrin	U	500000
7421-93-4	endrin aldehyde	U	500000
72-20-8	endrin	U	500000
72-54-8	4,4'DDD	U	500000
33213-65-9	endosulfan II	U	500000
85-68-7	butylbenzylphthalate	U	33000
50-29-3	4,4'DDT	U	500000
1031-07-8	endosulfan sulfate	U	500000
72-43-5	p,p'-methoxychlor	U	100000
91-94-1	3,3'-dichlorobenzidine	U	100000
56-55-3	benzo(a)anthracene	U	33000
117-81-7	bis(2-ethylhexyl)phthalate	U	33000
218-01-9	chrysene	U	33000
117-84-0	di-n-octylphthalate	U	33000

See footnotes on Page 4.

ANALYTICAL REPORT FOR SAMPLE No. EK4380

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZR6 Sponsor WESTINGHOUSE HANFORD CO.

Cas. No.	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
205-99-2	benzo(b)fluoranthene	U	33000
207-08-9	benzo(k)fluoranthene	U	33000
50-32-8	benzo(a)pyrene	U	33000
193-39-5	indeno(1,2,3-cd)pyrene	U	33000
53-70-3	dibenzo(a,h)anthracene	U	33000
191-24-2	benzo(g,h,i)perylene	U	33000
53494-70-5	endrin ketone	U	100000
109-06-8	2-picoline	U	100000
62-50-0	ethyl methanesulfonate	U	100000
66-27-3	methyl methanesulfonate	U	100000
62-53-3	aniline	U	100000
98-86-2	acetophenone	U	100000
100-75-4	N-nitroso-piperidine	U	100000
122-09-8	a,a-dimethylphenethylamine	U	100000
87-65-0	2,6-dichlorophenol	U	100000
924-16-3	N-nitroso-di-n-butylamine	U	100000
95-94-3	1,2,4,5-tetrachlorobenzene	54000.J	100000
90-13-1	1-chloronaphthalene	U	100000
608-93-5	pentachlorobenzene	230000.	100000
134-32-7	1-naphthylamine	U	100000
58-90-2	2,3,4,6-tetrachlorophenol	U	100000
91-59-8	2-naphthylamine	U	100000
62-44-2	phenacetin	U	100000
92-67-1	4-aminobiphenyl	U	100000
23950-58-5	pronamide (propyzamide)	U	100000
82-68-8	pentachloronitrobenzene	U	100000
92-87-5	benzidine	U	100000
60-11-7	p-dimethylaminoazobenzene	U	100000
57-97-6	7,12-dimethbenz(a)anthracene	U	100000
56-49-5	3-methylchloranthrene	U	100000
57-74-9	chlordane	U	1000000
8001-35-2	toxaphene	T	1000000
12674-11-2	PCB-1016	P	1000000
11104-28-2	PCB-1221	P	1000000
11141-16-5	PCB-1232	P	1000000
53469-21-9	PCB-1242	P	1000000
12672-29-6	PCB-1248	P	1000000
11097-69-1	PCB-1254	P	1000000
11096-82-5	PCB-1260	P	1000000

See footnotes on Page 4.

ANALYTICAL REPORT FOR SAMPLE No. EK4380

NON-TARGET ANALYTE RESULTS
Additional Semi-Volatiles

Field Sample ID BOOZR6

Cas. No	COMPOUND	Scan Number	Results ug/Kg	Footnotes
	PENTACHLORO-BIPHENYL CONGENER	1595	4.4E5	NEW
	PENTACHLORO-BIPHENYL CONGENER	1623	5.0E5	NEW
	HEXACHLORO-BIPHENYL CONGENER	1686	4.2E5	NEW
	HEXACHLORO-BIPHENYL CONGENER	1703	7.7E5	NEW
	HEXACHLORO-BIPHENYL CONGENER	1731	7.8E5	NEW
	HEXACHLORO-BIPHENYL CONGENER	1768	7.7E5	NEW
	HEPTACHLORO-BIPHENYL CONGENER	1786	1.1E6	NEW
	HEPTACHLORO-BIPHENYL CONGENER	1815	9.8E5	NEW
	HEPTACHLORO-BIPHENYL CONGENER	1850	1.7E6	NEW
	HEPTACLORO-BIPHENYL CONGENER	1891	1.1E6	NEW

FOOTNOTES

B The analyte was found in the method blank. The reported results have been adjusted for the quantity found in the blank.

E The reported concentration is an estimate only. The response factor was assumed to be 1.000 relative to an internal standard.

J Indicates an estimated concentration below the Method Detection Limit.

K The isomer is unknown.

N Analytical standards were not analyzed for this compound.

U Not detected.

W The identification is tentative or closely related to the compound.

9613424.0626

ANALYTICAL REPORT FOR SAMPLE No. EK4381

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZR7 Sponsor WESTINGHOUSE HANFORD CO.

File ID Z011EK4381 Date Extracted 09/17/91 Date of Analysis 10/03/91

DataChem ID S91-0719BC

Cas. No	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
62-75-9	N-nitroso-dimethylamine	U	1000
108-95-2	phenol	U	330
111-44-4	bis(2-chloroethyl)ether	U	330
95-57-8	2-chlorophenol	U	330
541-73-1	1,3-dichlorobenzene	U	330
106-46-7	1,4-dichlorobenzene	U	330
100-51-6	benzyl alcohol	U	1000
95-50-1	1,2-dichlorobenzene	U	330
95-48-7	2-methylphenol	U	330
39638-329	bis(2-chloroisopropyl)ether	U	330
106-44-5	4-methylphenol	U	330
621-64-7	N-nitroso-di-n-propylamine	U	330
67-72-1	hexachloroethane	U	330
98-95-3	nitrobenzene	U	330
78-59-1	isophorone	U	330
88-75-5	2-nitrophenol	U	330
105-67-9	2,4-dimethylphenol	U	330
111-91-1	bis(2-chloroethoxy)methane	U	330
65-85-0	benzoic acid	91.J	1000
120-83-2	2,4-dichlorophenol	U	330
120-82-1	1,2,4-trichlorobenzene	U	330
91-20-3	naphthalene	U	330
106-47-8	4-chloroaniline	U	330
87-68-3	hexachlorobutadiene	U	330
59-50-7	4-chloro-3-methylphenol	U	330
91-57-6	2-methylnaphthalene	U	330
77-47-4	hexachlorocyclopentadiene	U	330
88-06-2	2,4,6-trichlorophenol	U	330
95-95-4	2,4,5-trichlorophenol	U	800
91-58-7	2-chloronaphthalene	U	330
88-74-4	2-nitroaniline	U	800
131-11-3	dimethyl phthalate	U	330
606-20-2	2,6-dinitrotoluene	U	330
208-96-8	acenaphthylene	U	330
99-09-2	3-nitroaniline	U	800
83-32-9	acenaphthene	U	330
51-28-5	2,4-dinitrophenol	U	800
100-02-7	4-nitrophenol	U	800
132-64-9	dibenzofuran	U	330

See footnotes on page 4.

ANALYTICAL REPORT FOR SAMPLE No. EK4381

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZR7 Sponsor WESTINGHOUSE HANFORD CO.

Cas. No.	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
121-14-2	2,4-dinitrotoluene	U	330
84-66-2	diethyl phthalate	U	330
7005-72-3	4-chlorophenyl-phenylether	U	330
86-73-7	fluorene	U	330
100-01-6	4-nitroaniline	U	800
534-52-1	2-methyl-4,6-dinitrophenol	U	800
86-30-6	N-nitroso-diphenylamine	U	330
122-66-7	1,2-diphenylhydrazine	U	1000
101-55-3	4-bromophenyl-phenylether	U	330
319-84-6	.alpha.-BHC	U	1000
319-85-7	beta-BHC	U	5000
118-74-1	hexachlorobenzene	U	330
87-86-5	pentachlorophenol	U	800
58-89-9	.gamma.-BHC	U	1000
85-01-8	phenanthrene	44.J	330
120-12-7	anthracene	U	330
319-86-8	delta-BHC	U	5000
76-44-8	heptachlor	U	5000
84-74-2	di-n-butyl phthalate	U	330
309-00-2	aldrin	U	5000
1024-57-3	heptachlor epoxide	U	5000
206-44-0	fluoranthene	U	330
129-00-0	pyrene	U	330
959-98-8	endosulfan I	U	5000
72-55-9	4,4'DDE	U	5000
60-57-1	dieldrin	U	5000
7421-93-4	endrin aldehyde	U	5000
72-20-8	endrin	U	5000
72-54-8	4,4'DDD	U	5000
33213-65-9	endosulfan II	U	5000
85-68-7	butylbenzylphthalate	U	330
50-29-3	4,4'DDT	U	5000
1031-07-8	endosulfan sulfate	U	5000
72-43-5	p,p'-methoxychlor	U	1000
91-94-1	3,3'-dichlorobenzidine	U	1000
56-55-3	benzo(a)anthracene	29.J	330
117-81-7	bis(2-ethylhexyl)phthalate	U	330
218-01-9	chrysene	58.J	330
117-84-0	di-n-octylphthalate	U	330

See footnotes on Page 4.

ANALYTICAL REPORT FOR SAMPLE No. EK4381

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZR7 Sponsor WESTINGHOUSE HANFORD CO.

Cas. No.	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
205-99-2	benzo(b)fluoranthene	34.J	330
207-08-9	benzo(k)fluoranthene	48.J	330
50-32-8	benzo(a)pyrene	U	330
193-39-5	indeno(1,2,3-cd)pyrene	U	330
53-70-3	dibenzo(a,h)anthracene	U	330
191-24-2	benzo(g,h,i)perylene	U	330
53494-70-5	endrin ketone	U	1000
109-06-8	2-picoline	U	1000
62-50-0	ethyl methanesulfonate	U	1000
66-27-3	methyl methanesulfonate	U	1000
62-53-3	aniline	U	1000
98-86-2	acetophenone	U	1000
100-75-4	N-nitroso-piperidine	U	1000
122-09-8	a,a-dimethylphenethylamine	U	1000
87-65-0	2,6-dichlorophenol	U	1000
924-16-3	N-nitroso-di-n-butylamine	U	1000
95-94-3	1,2,4,5-tetrachlorobenzene	U	1000
90-13-1	1-chloronaphthalene	U	1000
608-93-5	pentachlorobenzene	U	1000
134-32-7	1-naphthylamine	U	1000
58-90-2	2,3,4,6-tetrachlorophenol	U	1000
91-59-8	2-naphthylamine	U	1000
62-44-2	phenacetin	U	1000
92-67-1	4-aminobiphenyl	U	1000
23950-58-5	pronamide (propyzamide)	U	1000
82-68-8	pentachloronitrobenzene	U	1000
92-87-5	benzidine	U	1000
60-11-7	p-dimethylaminoazobenzene	U	1000
57-97-6	7,12-dimethbenz(a)anthracene	U	1000
56-49-5	3-methylchloranthrene	U	1000
57-74-9	chlordane	130000.	10000
8001-35-2	toxaphene	T	10000
12674-11-2	PCB-1016	P	10000
11104-28-2	PCB-1221	P	10000
11141-16-5	PCB-1232	P	10000
53469-21-9	PCB-1242	P	10000
12672-29-6	PCB-1248	P	10000
11097-69-1	PCB-1254	P	10000
11096-82-5	PCB-1260	P	10000

See footnotes on Page 4.

ANALYTICAL REPORT FOR SAMPLE No. EK4381

NON-TARGET ANALYTE RESULTS
Additional Semi-Volatiles

Field Sample ID BOOZR7

Cas. No	COMPOUND	Scan Number	Results ug/Kg	Footnotes
	POLYCHLORINATED POLYCYCLIC H.C.	1448	710	NEW
	POLYCHLORINATED POLYCYCLIC H.C.	1497	790	NEW
	POLYCHLORINATED POLYCYCLIC H.C.	1528	500	NEW
	UNK POLYCYCLIC	1540	540	NEW
	POLYCHLORINATED POLYCYCLIC H.C.	1563	830	NEW
	POLYCHLORINATED POLYCYCLIC H.C.	1596	1400	NEW
	UNK POLYCYCLIC	1616	410	NEW
	POLYCHLORINATED POLYCYCLIC H.C.	1635	250	NEW
	POLYCHLORINATED POLYCYCLIC H.C.	1689	780	NEW
	ALKANE @ C33	2174	790	NEW

FOOTNOTES

B The analyte was found in the method blank. The reported results have been adjusted for the quantity found in the blank.

E The reported concentration is an estimate only. The response factor was assumed to be 1.000 relative to an internal standard.

J Indicates an estimated concentration below the Method Detection Limit.

K The isomer is unknown.

N Analytical standards were not analyzed for this compound.

U Not detected.

W The identification is tentative or closely related to the compound.

9613424.0630

ANALYTICAL REPORT FOR SAMPLE No. EK4382

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID B00ZR8 Sponsor WESTINGHOUSE HANFORD CO.

File ID Z012EK4382 Date Extracted 09/17/91 Date of Analysis 10/03/91

DataChem ID S91-0719BC

Cas. No	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
62-75-9	N-nitroso-dimethylamine	U	1000
108-95-2	phenol	U	330
111-44-4	bis(2-chloroethyl)ether	U	330
95-57-8	2-chlorophenol	U	330
541-73-1	1,3-dichlorobenzene	U	330
106-46-7	1,4-dichlorobenzene	U	330
100-51-6	benzyl alcohol	U	1000
95-50-1	1,2-dichlorobenzene	U	330
95-48-7	2-methylphenol	U	330
39638-329	bis(2-chloroisopropyl)ether	U	330
106-44-5	4-methylphenol	U	330
621-64-7	N-nitroso-di-n-propylamine	U	330
67-72-1	hexachloroethane	U	330
98-95-3	nitrobenzene	U	330
78-59-1	isophorone	U	330
88-75-5	2-nitrophenol	U	330
105-67-9	2,4-dimethylphenol	U	330
111-91-1	bis(2-chloroethoxy)methane	U	330
65-85-0	benzoic acid	U	1000
120-83-2	2,4-dichlorophenol	U	330
120-82-1	1,2,4-trichlorobenzene	U	330
91-20-3	naphthalene	U	330
106-47-8	4-chloroaniline	U	330
87-68-3	hexachlorobutadiene	U	330
59-50-7	4-chloro-3-methylphenol	U	330
91-57-6	2-methylnaphthalene	U	330
77-47-4	hexachlorocyclopentadiene	U	330
88-06-2	2,4,6-trichlorophenol	U	330
95-95-4	2,4,5-trichlorophenol	U	800
91-58-7	2-chloronaphthalene	U	330
88-74-4	2-nitroaniline	U	800
131-11-3	dimethyl phthalate	U	330
606-20-2	2,6-dinitrotoluene	U	330
208-96-8	acenaphthylene	U	330
99-09-2	3-nitroaniline	U	800
83-32-9	acenaphthene	U	330
51-28-5	2,4-dinitrophenol	U	800
100-02-7	4-nitrophenol	U	800
132-64-9	dibenzofuran	U	330

See footnotes on page 4.

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9613424.0631

ANALYTICAL REPORT FOR SAMPLE No. EK4382

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZR8 Sponsor WESTINGHOUSE HANFORD CO.

Cas. No.	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
121-14-2	2,4-dinitrotoluene	U	330
84-66-2	diethyl phthalate	U	330
7005-72-3	4-chlorophenyl-phenylether	U	330
86-73-7	fluorene	U	330
100-01-6	4-nitroaniline	U	800
534-52-1	2-methyl-4,6-dinitrophenol	U	800
86-30-6	N-nitroso-diphenylamine	U	330
122-66-7	1,2-diphenylhydrazine	U	1000
101-55-3	4-bromophenyl-phenylether	U	330
319-84-6	.alpha.-BHC	U	1000
319-85-7	beta-BHC	U	5000
118-74-1	hexachlorobenzene	U	330
87-86-5	pentachlorophenol	U	800
58-89-9	.gamma.-BHC	U	1000
85-01-8	phenanthrene	56.J	330
120-12-7	anthracene	U	330
319-86-8	delta-BHC	U	5000
76-44-8	heptachlor	U	5000
84-74-2	di-n-butyl phthalate	62.J	330
309-00-2	aldrin	U	5000
1024-57-3	heptachlor epoxide	U	5000
206-44-0	fluoranthene	74.J	330
129-00-0	pyrene	66.J	330
959-98-8	endosulfan I	U	5000
72-55-9	4,4'DDE	U	5000
60-57-1	dieldrin	U	5000
7421-93-4	endrin aldehyde	U	5000
72-20-8	endrin	U	5000
72-54-8	4,4'DDD	U	5000
33213-65-9	endosulfan II	U	5000
85-68-7	butylbenzylphthalate	U	330
50-29-3	4,4'DDT	U	5000
1031-07-8	endosulfan sulfate	U	5000
72-43-5	p,p'-methoxychlor	U	1000
91-94-1	3,3'-dichlorobenzidine	U	1000
56-55-3	benzo(a)anthracene	U	330
117-81-7	bis(2-ethylhexyl)phthalate	U	330
218-01-9	chrysene	37.J	330
117-84-0	di-n-octylphthalate	U	330

See footnotes on Page 4.

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9613424.0632

ANALYTICAL REPORT FOR SAMPLE No. EK4382

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZR8 Sponsor WESTINGHOUSE HANFORD CO.

Cas. No.	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
205-99-2	benzo(b)fluoranthene	U	330
207-08-9	benzo(k)fluoranthene	U	330
50-32-8	benzo(a)pyrene	U	330
193-39-5	indeno(1,2,3-cd)pyrene	U	330
53-70-3	dibenzo(a,h)anthracene	U	330
191-24-2	benzo(g,h,i)perylene	U	330
53494-70-5	endrin ketone	U	1000
109-06-8	2-picoline	U	1000
62-50-0	ethyl methanesulfonate	U	1000
66-27-3	methyl methanesulfonate	U	1000
62-53-3	aniline	U	1000
98-86-2	acetophenone	U	1000
100-75-4	N-nitroso-piperidine	U	1000
122-09-8	a,a-dimethylphenethylamine	U	1000
87-65-0	2,6-dichlorophenol	U	1000
924-16-3	N-nitroso-di-n-butylamine	U	1000
95-94-3	1,2,4,5-tetrachlorobenzene	U	1000
90-13-1	1-chloronaphthalene	U	1000
608-93-5	pentachlorobenzene	U	1000
134-32-7	1-naphthylamine	U	1000
58-90-2	2,3,4,6-tetrachlorophenol	U	1000
91-59-8	2-naphthylamine	U	1000
62-44-2	phenacetin	U	1000
92-67-1	4-aminobiphenyl	U	1000
23950-58-5	pronamide (propyzamide)	U	1000
82-68-8	pentachloronitrobenzene	U	1000
92-87-5	benzidine	U	1000
60-11-7	p-dimethylaminoazobenzene	U	1000
57-97-6	7,12-dimethbenz(a)anthracene	U	1000
56-49-5	3-methylchloranthrene	U	1000
57-74-9	chlordane	6100.J	10000
8001-35-2	toxaphene	U	10000
12674-11-2	PCB-1016	U	10000
11104-28-2	PCB-1221	U	10000
11141-16-5	PCB-1232	U	10000
53469-21-9	PCB-1242	U	10000
12672-29-6	PCB-1248	U	10000
11097-69-1	PCB-1254	U	10000
11096-82-5	PCB-1260	U	10000

See footnotes on Page 4.

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ANALYTICAL REPORT FOR SAMPLE No. EK4382

NON-TARGET ANALYTE RESULTS
Additional Semi-Volatiles

Field Sample ID BOOZR8

Cas. No	COMPOUND	Scan Number	Results ug/Kg	Footnotes
57-10-3	HEXADECANOIC ACID	1449	220	NEW
	HEXANEDIOC ACID C8 ESTER	1706	160	NEW
	ALKANE @ C27	1857	400	NEW
	ALKANE @ C28	1917	170	NEW
	UNKNOWN	1963	1100	NEW
	ALKANE @ C29	1988	1100	NEW
	ALKANE @ C30	2073	140	NEW
	ALKANE @ C31	2176	920	NEW
	UNK POLYCYCLIC H.C.	2186	140	NEW
	UNKNOWN	2570	210	NEW

FOOTNOTES

B The analyte was found in the method blank. The reported results have been adjusted for the quantity found in the blank.
E The reported concentration is an estimate only. The response factor was assumed to be 1.000 relative to an internal standard.
J Indicates an estimated concentration below the Method Detection Limit.
K The isomer is unknown.
N Analytical standards were not analyzed for this compound.
U Not detected.
W The identification is tentative or closely related to the compound.

9613424.0634

ANALYTICAL REPORT FOR SAMPLE No. EK4383

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZR9 Sponsor WESTINGHOUSE HANFORD CO.

File ID ZR7EK4383D Date Extracted 09/17/91 Date of Analysis 10/03/91

DataChem ID S91-0719BC

Cas. No	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
62-75-9	N-nitroso-dimethylamine	U	50000
108-95-2	phenol	U	16500
111-44-4	bis(2-chloroethyl)ether	U	16500
95-57-8	2-chlorophenol	U	16500
541-73-1	1,3-dichlorobenzene	U	16500
106-46-7	1,4-dichlorobenzene	U	16500
100-51-6	benzyl alcohol	U	50000
95-50-1	1,2-dichlorobenzene	U	16500
95-48-7	2-methylphenol	U	16500
39638-329	bis(2-chloroisopropyl)ether	U	16500
106-44-5	4-methylphenol	U	16500
621-64-7	N-nitroso-di-n-propylamine	U	16500
67-72-1	hexachloroethane	U	16500
98-95-3	nitrobenzene	U	16500
78-59-1	isophorone	U	16500
88-75-5	2-nitrophenol	U	16500
105-67-9	2,4-dimethylphenol	U	16500
111-91-1	bis(2-chloroethoxy)methane	U	16500
65-85-0	benzoic acid	U	50000
120-83-2	2,4-dichlorophenol	U	16500
120-82-1	1,2,4-trichlorobenzene	U	16500
91-20-3	naphthalene	U	16500
106-47-8	4-chloroaniline	U	16500
87-68-3	hexachlorobutadiene	U	16500
59-50-7	4-chloro-3-methylphenol	U	16500
91-57-6	2-methylnaphthalene	U	16500
77-47-4	hexachlorocyclopentadiene	U	16500
88-06-2	2,4,6-trichlorophenol	U	16500
95-95-4	2,4,5-trichlorophenol	U	40000
91-58-7	2-chloronaphthalene	U	16500
88-74-4	2-nitroaniline	U	40000
131-11-3	dimethyl phthalate	U	16500
606-20-2	2,6-dinitrotoluene	U	16500
208-96-8	acenaphthylene	U	16500
99-09-2	3-nitroaniline	U	40000
83-32-9	acenaphthene	U	16500
51-28-5	2,4-dinitrophenol	U	40000
100-02-7	4-nitrophenol	U	40000
132-64-9	dibenzofuran	U	16500

See footnotes on page 4.

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ANALYTICAL REPORT FOR SAMPLE No. EK4383

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZR9 Sponsor WESTINGHOUSE HANFORD CO.

Cas. No.	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
121-14-2	2,4-dinitrotoluene	U	16500
84-66-2	diethyl phthalate	U	16500
7005-72-3	4-chlorophenyl-phenylether	U	16500
86-73-7	fluorene	U	16500
100-01-6	4-nitroaniline	U	40000
534-52-1	2-methyl-4,6-dinitrophenol	U	40000
86-30-6	N-nitroso-diphenylamine	U	16500
122-66-7	1,2-diphenylhydrazine	U	50000
101-55-3	4-bromophenyl-phenylether	U	16500
319-84-6	.alpha.-BHC	U	50000
319-85-7	beta-BHC	U	250000
118-74-1	hexachlorobenzene	U	16500
87-86-5	pentachlorophenol	U	40000
58-89-9	.gamma.-BHC	U	50000
85-01-8	phenanthrene	U	16500
120-12-7	anthracene	U	16500
319-86-8	delta-BHC	U	250000
76-44-8	heptachlor	U	250000
84-74-2	di-n-butyl phthalate	U	16500
309-00-2	aldrin	U	250000
1024-57-3	heptachlor epoxide	U	250000
206-44-0	fluoranthene	U	16500
129-00-0	pyrene	U	16500
959-98-8	endosulfan I	U	250000
72-55-9	4,4'DDE	U	250000
60-57-1	dieldrin	U	250000
7421-93-4	endrin aldehyde	U	250000
72-20-8	endrin	U	250000
72-54-8	4,4'DDD	U	250000
33213-65-9	endosulfan II	U	250000
85-68-7	butylbenzylphthalate	U	16500
50-29-3	4,4'DDT	U	250000
1031-07-8	endosulfan sulfate	U	250000
72-43-5	p,p'-methoxychlor	U	50000
91-94-1	3,3'-dichlorobenzidine	U	50000
56-55-3	benzo(a)anthracene	U	16500
117-81-7	bis(2-ethylhexyl)phthalate	U	16500
218-01-9	chrysene	U	16500
117-84-0	di-n-octylphthalate	U	16500

See footnotes on Page 4.

9613424.0636

ANALYTICAL REPORT FOR SAMPLE No. EK4383

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZR9 Sponsor WESTINGHOUSE HANFORD CO.

Cas. No.	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
205-99-2	benzo(b)fluoranthene	U	16500
207-08-9	benzo(k)fluoranthene	U	16500
50-32-8	benzo(a)pyrene	U	16500
193-39-5	indeno(1,2,3-cd)pyrene	U	16500
53-70-3	dibenzo(a,h)anthracene	U	16500
191-24-2	benzo(g,h,i)perylene	U	16500
53494-70-5	endrin ketone	U	50000
109-06-8	2-picoline	U	50000
62-50-0	ethyl methanesulfonate	U	50000
66-27-3	methyl methanesulfonate	U	50000
62-53-3	aniline	U	50000
98-86-2	acetophenone	U	50000
100-75-4	N-nitroso-piperidine	U	50000
122-09-8	a,a-dimethylphenethylamine	U	50000
87-65-0	2,6-dichlorophenol	U	50000
924-16-3	N-nitroso-di-n-butylamine	U	50000
95-94-3	1,2,4,5-tetrachlorobenzene	U	50000
90-13-1	1-chloronaphthalene	U	50000
608-93-5	pentachlorobenzene	U	50000
134-32-7	1-naphthylamine	U	50000
58-90-2	2,3,4,6-tetrachlorophenol	U	50000
91-59-8	2-naphthylamine	U	50000
62-44-2	phenacetin	U	50000
92-67-1	4-aminobiphenyl	U	50000
23950-58-5	pronamide (propyzamide)	U	50000
82-68-8	pentachloronitrobenzene	U	50000
92-87-5	benzidine	U	50000
60-11-7	p-dimethylaminoazobenzene	U	50000
57-97-6	7,12-dimethbenz(a)anthracene	U	50000
56-49-5	3-methylchloranthrene	U	50000
57-74-9	chlordane	U	500000
8001-35-2	toxaphene	U	500000
12674-11-2	PCB-1016	U	500000
11104-28-2	PCB-1221	U	500000
11141-16-5	PCB-1232	U	500000
53469-21-9	PCB-1242	U	500000
12672-29-6	PCB-1248	U	500000
11097-69-1	PCB-1254	U	500000
11096-82-5	PCB-1260	U	500000

See footnotes on Page 4.

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ANALYTICAL REPORT FOR SAMPLE No. EK4383

NON-TARGET ANALYTE RESULTS
Additional Semi-Volatiles

Field Sample ID BOOZR9

Cas. No	COMPOUND	Scan Number	Results ug/Kg	Footnotes
	OCTADECENE CONGENER	1275	6.4E4	NEW
	OCTADECENE CONGENER	1320	1.6E5	NEW
	UNK POLYCYCLIC H.C.	1345	5.1E4	NEW
	UNK POLYCYCLIC H.C.	1361	7.9E4	NEW
	OCTADECENE CONGENER	1397	2.0E5	NEW
	UNK POLYCYCLIC H.C.	1417	2.3E5	NEW
	UNK POLYCYCLIC H.C.	1455	1.9E5	NEW
	UNK POLYCYCLIC H.C.	1465	1.7E5	NEW
	UNK POLYCYCLIC H.C.	1483	7.5E4	NEW
	ALKANE @ C21	1547	3.9E5	NEW

FOOTNOTES

B The analyte was found in the method blank. The reported results have been adjusted for the quantity found in the blank.

E The reported concentration is an estimate only. The response factor was assumed to be 1.000 relative to an internal standard.

J Indicates an estimated concentration below the Method Detection Limit.

K The isomer is unknown.

N Analytical standards were not analyzed for this compound.

U Not detected.

W The identification is tentative or closely related to the compound.

ANALYTICAL REPORT FOR SAMPLE No. EK4384

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZS0 Sponsor WESTINGHOUSE HANFORD CO.

File ID ZR9EK4384D Date Extracted 09/17/91 Date of Analysis 10/03/91

DataChem ID S91-0719BC

Cas. No	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
62-75-9	N-nitroso-dimethylamine	U	10000
108-95-2	phenol	U	3300
111-44-4	bis(2-chloroethyl)ether	U	3300
95-57-8	2-chlorophenol	U	3300
541-73-1	1,3-dichlorobenzene	U	3300
106-46-7	1,4-dichlorobenzene	U	3300
100-51-6	benzyl alcohol	U	10000
95-50-1	1,2-dichlorobenzene	U	3300
95-48-7	2-methylphenol	U	3300
39638-329	bis(2-chloroisopropyl)ether	U	3300
106-44-5	4-methylphenol	U	3300
621-64-7	N-nitroso-di-n-propylamine	U	3300
67-72-1	hexachloroethane	U	3300
98-95-3	nitrobenzene	U	3300
78-59-1	isophorone	U	3300
88-75-5	2-nitrophenol	U	3300
105-67-9	2,4-dimethylphenol	U	3300
111-91-1	bis(2-chloroethoxy)methane	U	3300
65-85-0	benzoic acid	U	10000
120-83-2	2,4-dichlorophenol	U	3300
120-82-1	1,2,4-trichlorobenzene	U	3300
91-20-3	naphthalene	370.J	3300
106-47-8	4-chloroaniline	U	3300
87-68-3	hexachlorobutadiene	U	3300
59-50-7	4-chloro-3-methylphenol	U	3300
91-57-6	2-methylnaphthalene	U	3300
77-47-4	hexachlorocyclopentadiene	U	3300
88-06-2	2,4,6-trichlorophenol	U	3300
95-95-4	2,4,5-trichlorophenol	U	8000
91-58-7	2-chloronaphthalene	U	3300
88-74-4	2-nitroaniline	U	8000
131-11-3	dimethyl phthalate	U	3300
606-20-2	2,6-dinitrotoluene	U	3300
208-96-8	acenaphthylene	U	3300
99-09-2	3-nitroaniline	U	8000
83-32-9	acenaphthene	U	3300
51-28-5	2,4-dinitrophenol	U	8000
100-02-7	4-nitrophenol	U	8000
132-64-9	dibenzofuran	U	3300

See footnotes on page 4.

ANALYTICAL REPORT FOR SAMPLE No. EK4384

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZS0 Sponsor WESTINGHOUSE HANFORD CO.

Cas. No.	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
121-14-2	2,4-dinitrotoluene	U	3300
84-66-2	diethyl phthalate	U	3300
7005-72-3	4-chlorophenyl-phenylether	U	3300
86-73-7	fluorene	U	3300
100-01-6	4-nitroaniline	U	8000
534-52-1	2-methyl-4,6-dinitrophenol	U	8000
86-30-6	N-nitroso-diphenylamine	U	3300
122-66-7	1,2-diphenylhydrazine	U	10000
101-55-3	4-bromophenyl-phenylether	U	3300
319-84-6	.alpha.-BHC	U	10000
319-85-7	beta-BHC	U	50000
118-74-1	hexachlorobenzene	U	3300
87-86-5	pentachlorophenol	U	8000
58-89-9	.gamma.-BHC	U	10000
85-01-8	phenanthrene	960.J	3300
120-12-7	anthracene	160.J	3300
319-86-8	delta-BHC	U	50000
76-44-8	heptachlor	U	50000
84-74-2	di-n-butyl phthalate	U	3300
309-00-2	aldrin	U	50000
1024-57-3	heptachlor epoxide	U	50000
206-44-0	fluoranthene	910.J	3300
129-00-0	pyrene	1000.J	3300
959-98-8	endosulfan I	U	50000
72-55-9	4,4'DDE	U	50000
60-57-1	dieldrin	U	50000
7421-93-4	endrin aldehyde	U	50000
72-20-8	endrin	U	50000
72-54-8	4,4'DDD	U	50000
33213-65-9	endosulfan II	U	50000
85-68-7	butylbenzylphthalate	U	3300
50-29-3	4,4'DDT	U	50000
1031-07-8	endosulfan sulfate	U	50000
72-43-5	p,p'-methoxychlor	U	10000
91-94-1	3,3'-dichlorobenzidine	U	10000
56-55-3	benzo(a)anthracene	490.J	3300
117-81-7	bis(2-ethylhexyl)phthalate	U	3300
218-01-9	chrysene	660.J	3300
117-84-0	di-n-octylphthalate	U	3300

See footnotes on Page 4.

ANALYTICAL REPORT FOR SAMPLE No. EK4384

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZS0 Sponsor WESTINGHOUSE HANFORD CO.

Cas. No.	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
205-99-2	benzo(b)fluoranthene	340.J	3300
207-08-9	benzo(k)fluoranthene	500.J	3300
50-32-8	benzo(a)pyrene	490.J	3300
193-39-5	indeno(1,2,3-cd)pyrene	U	3300
53-70-3	dibenzo(a,h)anthracene	U	3300
191-24-2	benzo(g,h,i)perylene	U	3300
53494-70-5	endrin ketone	U	10000
109-06-8	2-picoline	U	10000
62-50-0	ethyl methanesulfonate	U	10000
66-27-3	methyl methanesulfonate	U	10000
62-53-3	aniline	U	10000
98-86-2	acetophenone	U	10000
100-75-4	N-nitroso-piperidine	U	10000
122-09-8	a,a-dimethylphenethylamine	U	10000
87-65-0	2,6-dichlorophenol	U	10000
924-16-3	N-nitroso-di-n-butylamine	U	10000
95-94-3	1,2,4,5-tetrachlorobenzene	U	10000
90-13-1	1-chloronaphthalene	U	10000
608-93-5	pentachlorobenzene	U	10000
134-32-7	1-naphthylamine	U	10000
58-90-2	2,3,4,6-tetrachlorophenol	U	10000
91-59-8	2-naphthylamine	U	10000
62-44-2	phenacetin	U	10000
92-67-1	4-aminobiphenyl	U	10000
23950-58-5	pronamide (propyzamide)	U	10000
82-68-8	pentachloronitrobenzene	U	10000
92-87-5	benzidine	U	10000
60-11-7	p-dimethylaminoazobenzene	U	10000
57-97-6	7,12-dimethbenz(a)anthracene	U	10000
56-49-5	3-methylchloranthrene	U	10000
57-74-9	chlordane	U	100000
8001-35-2	toxaphene	U	100000
12674-11-2	PCB-1016	P	100000
11104-28-2	PCB-1221	P	100000
11141-16-5	PCB-1232	P	100000
53469-21-9	PCB-1242	P	100000
12672-29-6	PCB-1248	P	100000
11097-69-1	PCB-1254	P	100000
11096-82-5	PCB-1260	P	100000

See footnotes on Page 4.

ANALYTICAL REPORT FOR SAMPLE No. EK4384

NON-TARGET ANALYTE RESULTS
Additional Semi-Volatiles

Field Sample ID BOOZS0

Cas. No	COMPOUND	Scan Number	Results ug/Kg	Footnotes
	UNK OXY H.C.	1447	1100	NEW
	UNKNOWN	1457	1900	NEW
	UNK CYCLIC H.C.	1512	15000	NEW
	UNK CYCLIC H.C.	1522	1800	NEW
	UNK CYCLIC H.C.	1532	2400	NEW
	UNK CYCLIC H.C.	1540	2800	NEW
	UNK OXY H.C.	1589	2000	NEW
	UNK OXY H.C.	1580	1700	NEW
	UNK OXY H.C.	1618	1600	NEW
	UNK OXY H.C.	1636	1700	NEW

FOOTNOTES

B The analyte was found in the method blank. The reported results have been adjusted for the quantity found in the blank.

E The reported concentration is an estimate only. The response factor was assumed to be 1.000 relative to an internal standard.

J Indicates an estimated concentration below the Method Detection Limit.

K The isomer is unknown.

N Analytical standards were not analyzed for this compound.

U Not detected.

W The identification is tentative or closely related to the compound.

ANALYTICAL REPORT FOR SAMPLE No. EK4385

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZS1 Sponsor WESTINGHOUSE HANFORD CO.

File ID ZR5EK4385D Date Extracted 09/17/91 Date of Analysis 10/03/91

DataChem ID S91-0719BC

Cas. No	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
62-75-9	N-nitroso-dimethylamine	U	20000
108-95-2	phenol	U	6600
111-44-4	bis(2-chloroethyl)ether	U	6600
95-57-8	2-chlorophenol	U	6600
541-73-1	1,3-dichlorobenzene	U	6600
106-46-7	1,4-dichlorobenzene	U	6600
100-51-6	benzyl alcohol	U	20000
95-50-1	1,2-dichlorobenzene	U	6600
95-48-7	2-methylphenol	U	6600
39638-329	bis(2-chloroisopropyl)ether	U	6600
106-44-5	4-methylphenol	U	6600
621-64-7	N-nitroso-di-n-propylamine	U	6600
67-72-1	hexachloroethane	U	6600
98-95-3	nitrobenzene	U	6600
78-59-1	isophorone	U	6600
88-75-5	2-nitrophenol	U	6600
105-67-9	2,4-dimethylphenol	U	6600
111-91-1	bis(2-chloroethoxy)methane	U	6600
65-85-0	benzoic acid	U	20000
120-83-2	2,4-dichlorophenol	U	6600
120-82-1	1,2,4-trichlorobenzene	U	6600
91-20-3	naphthalene	U	6600
106-47-8	4-chloroaniline	U	6600
87-68-3	hexachlorobutadiene	U	6600
59-50-7	4-chloro-3-methylphenol	U	6600
91-57-6	2-methylnaphthalene	U	6600
77-47-4	hexachlorocyclopentadiene	U	6600
88-06-2	2,4,6-trichlorophenol	U	6600
95-95-4	2,4,5-trichlorophenol	U	1600
91-58-7	2-chloronaphthalene	U	6600
88-74-4	2-nitroaniline	U	1600
131-11-3	dimethyl phthalate	U	6600
606-20-2	2,6-dinitrotoluene	U	6600
208-96-8	acenaphthylene	U	6600
99-09-2	3-nitroaniline	U	1600
83-32-9	acenaphthene	U	6600
51-28-5	2,4-dinitrophenol	U	1600
100-02-7	4-nitrophenol	U	1600
132-64-9	dibenzofuran	U	6600

See footnotes on page 4.

ANALYTICAL REPORT FOR SAMPLE No. EK4385

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZS1 Sponsor WESTINGHOUSE HANFORD CO.

Cas. No.	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
121-14-2	2,4-dinitrotoluene	U	6600
84-66-2	diethyl phthalate	U	6600
7005-72-3	4-chlorophenyl-phenylether	U	6600
86-73-7	fluorene	U	6600
100-01-6	4-nitroaniline	U	16000
534-52-1	2-methyl-4,6-dinitrophenol	U	16000
86-30-6	N-nitroso-diphenylamine	U	6600
122-66-7	1,2-diphenylhydrazine	U	20000
101-55-3	4-bromophenyl-phenylether	U	6600
319-84-6	.alpha.-BHC	U	20000
319-85-7	beta-BHC	U	100000
118-74-1	hexachlorobenzene	U	6600
87-86-5	pentachlorophenol	U	1600
58-89-9	.gamma.-BHC	U	100000
85-01-8	phenanthrene	U	6600
120-12-7	anthracene	U	6600
319-86-8	delta-BHC	U	100000
76-44-8	heptachlor	U	100000
84-74-2	di-n-butyl phthalate	U	6600
309-00-2	aldrin	U	100000
1024-57-3	heptachlor epoxide	U	100000
206-44-0	fluoranthene	U	6600
129-00-0	pyrene	U	6600
959-98-8	endosulfan I	U	100000
72-55-9	4,4'DDE	U	100000
60-57-1	dieldrin	U	100000
7421-93-4	endrin aldehyde	U	100000
72-20-8	endrin	U	100000
72-54-8	4,4'DDD	U	100000
33213-65-9	endosulfan II	U	100000
85-68-7	butylbenzylphthalate	U	6600
50-29-3	4,4'DDT	U	100000
1031-07-8	endosulfan sulfate	U	100000
72-43-5	p,p'-methoxychlor	U	20000
91-94-1	3,3'-dichlorobenzidine	U	20000
56-55-3	benzo(a)anthracene	U	6600
117-81-7	bis(2-ethylhexyl)phthalate	U	6600
218-01-9	chrysene	U	6600
117-84-0	di-n-octylphthalate	U	6600

See footnotes on Page 4.

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ANALYTICAL REPORT FOR SAMPLE No. EK4385

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZS1 Sponsor WESTINGHOUSE HANFORD CO.

Cas. No.	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
205-99-2	benzo(b)fluoranthene	U	6600
207-08-9	benzo(k)fluoranthene	U	6600
50-32-8	benzo(a)pyrene	U	6600
193-39-5	indeno(1,2,3-cd)pyrene	U	6600
53-70-3	dibenzo(a,h)anthracene	U	6600
191-24-2	benzo(g,h,i)perylene	U	6600
53494-70-5	endrin ketone	U	20000
109-06-8	2-picoline	U	20000
62-50-0	ethyl methanesulfonate	U	20000
66-27-3	methyl methanesulfonate	U	20000
62-53-3	aniline	U	20000
98-86-2	acetophenone	U	20000
100-75-4	N-nitroso-piperidine	U	20000
122-09-8	a,a-dimethylphenethylamine	U	20000
87-65-0	2,6-dichlorophenol	U	20000
924-16-3	N-nitroso-di-n-butylamine	U	20000
95-94-3	1,2,4,5-tetrachlorobenzene	U	20000
90-13-1	1-chloronaphthalene	U	20000
608-93-5	pentachlorobenzene	U	20000
134-32-7	1-naphthylamine	U	20000
58-90-2	2,3,4,6-tetrachlorophenol	U	20000
91-59-8	2-naphthylamine	U	20000
62-44-2	phenacetin	U	20000
92-67-1	4-aminobiphenyl	U	20000
23950-58-5	pronamide (propyzamide)	U	20000
82-68-8	pentachloronitrobenzene	U	20000
92-87-5	benzidine	U	20000
60-11-7	p-dimethylaminoazobenzene	U	20000
57-97-6	7,12-dimethbenz(a)anthracene	U	20000
56-49-5	3-methylchloranthrene	U	20000
57-74-9	chlordane	U	200000
8001-35-2	toxaphene	U	200000
12674-11-2	PCB-1016	U	200000
11104-28-2	PCB-1221	U	200000
11141-16-5	PCB-1232	U	200000
53469-21-9	PCB-1242	U	200000
12672-29-6	PCB-1248	U	200000
11097-69-1	PCB-1254	U	200000
11096-82-5	PCB-1260	U	200000

See footnotes on Page 4.

ANALYTICAL REPORT FOR SAMPLE No. EK4385

NON-TARGET ANALYTE RESULTS
Additional Semi-Volatiles

Field Sample ID BOOZS1

Cas. No	COMPOUND	Scan Number	Results ug/Kg	Footnotes
	ALKANE @ C15	1105	7700	NEW
	ALKANE @ C17	1252	1.5E5	NEW
	ALKANE @ C17	1295	3.0E5	NEW
	ALKANE @ C18	1328	1.5E5	NEW
	UNK CYCLIC H.C.	1347	6.1E4	NEW
	ALKANE @ C18	1369	3.9E5	NEW
	ALDEHYDE @ C19	1404	8.1E4	NEW
	ALDEHYDE @ C20	1461	7.9E4	NEW
	ALKANE @ C21	1541	1.3E5	NEW
	ALDEHYDE @ C21	1554	1.5E5	NEW

FOOTNOTES

B The analyte was found in the method blank. The reported results have been adjusted for the quantity found in the blank.
E The reported concentration is an estimate only. The response factor was assumed to be 1.000 relative to an internal standard.
J Indicates an estimated concentration below the Method Detection Limit.
K The isomer is unknown.
N Analytical standards were not analyzed for this compound.
U Not detected.
W The identification is tentative or closely related to the compound.

ANALYTICAL REPORT FOR SAMPLE No. EK4386

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZS2 Sponsor WESTINGHOUSE HANFORD CO.

File ID ZR4EK4386D Date Extracted 09/17/91 Date of Analysis 10/03/91

DataChem ID S91-0719BC

Cas. No	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
62-75-9	N-nitroso-dimethylamine	U	10000
108-95-2	phenol	U	3300
111-44-4	bis(2-chloroethyl)ether	U	3300
95-57-8	2-chlorophenol	U	3300
541-73-1	1,3-dichlorobenzene	U	3300
106-46-7	1,4-dichlorobenzene	U	3300
100-51-6	benzyl alcohol	U	10000
95-50-1	1,2-dichlorobenzene	U	3300
95-48-7	2-methylphenol	U	3300
39638-329	bis(2-chloroisopropyl)ether	U	3300
106-44-5	4-methylphenol	U	3300
621-64-7	N-nitroso-di-n-propylamine	U	3300
67-72-1	hexachloroethane	U	3300
98-95-3	nitrobenzene	U	3300
78-59-1	isophorone	U	3300
88-75-5	2-nitrophenol	U	3300
105-67-9	2,4-dimethylphenol	U	3300
111-91-1	bis(2-chloroethoxy)methane	U	3300
65-85-0	benzoic acid	U	10000
120-83-2	2,4-dichlorophenol	U	3300
120-82-1	1,2,4-trichlorobenzene	U	3300
91-20-3	naphthalene	U	3300
106-47-8	4-chloroaniline	U	3300
87-68-3	hexachlorobutadiene	U	3300
59-50-7	4-chloro-3-methylphenol	U	3300
91-57-6	2-methylnaphthalene	U	3300
77-47-4	hexachlorocyclopentadiene	U	3300
88-06-2	2,4,6-trichlorophenol	U	3300
95-95-4	2,4,5-trichlorophenol	U	8000
91-58-7	2-chloronaphthalene	U	3300
88-74-4	2-nitroaniline	U	8000
131-11-3	dimethyl phthalate	U	3300
606-20-2	2,6-dinitrotoluene	U	3300
208-96-8	acenaphthylene	U	3300
99-09-2	3-nitroaniline	U	8000
83-32-9	acenaphthene	U	3300
51-28-5	2,4-dinitrophenol	U	8000
100-02-7	4-nitrophenol	U	8000
132-64-9	dibenzofuran	U	3300

See footnotes on page 4.

ANALYTICAL REPORT FOR SAMPLE No. EK4386

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZS2 Sponsor WESTINGHOUSE HANFORD CO.

Cas. No.	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
121-14-2	2,4-dinitrotoluene	U	3300
84-66-2	diethyl phthalate	U	3300
7005-72-3	4-chlorophenyl-phenylether	U	3300
86-73-7	fluorene	U	3300
100-01-6	4-nitroaniline	U	8000
534-52-1	2-methyl-4,6-dinitrophenol	U	8000
86-30-6	N-nitroso-diphenylamine	U	3300
122-66-7	1,2-diphenylhydrazine	U	10000
101-55-3	4-bromophenyl-phenylether	U	3300
319-84-6	.alpha.-BHC	U	10000
319-85-7	beta-BHC	U	50000
118-74-1	hexachlorobenzene	U	3300
87-86-5	pentachlorophenol	U	8000
58-89-9	.gamma.-BHC	U	10000
85-01-8	phenanthrene	U	3300
120-12-7	anthracene	U	3300
319-86-8	delta-BHC	U	50000
76-44-8	heptachlor	U	50000
84-74-2	di-n-butyl phthalate	U	3300
309-00-2	aldrin	U	50000
1024-57-3	heptachlor epoxide	U	50000
206-44-0	fluoranthene	U	3300
129-00-0	pyrene	U	3300
959-98-8	endosulfan I	U	50000
72-55-9	4,4'DDE	U	50000
60-57-1	dieldrin	U	50000
7421-93-4	endrin aldehyde	U	50000
72-20-8	endrin	U	50000
72-54-8	4,4'DDD	U	50000
33213-65-9	endosulfan II	U	50000
85-68-7	butylbenzylphthalate	U	3300
50-29-3	4,4'DDT	U	50000
1031-07-8	endosulfan sulfate	U	50000
72-43-5	p,p'-methoxychlor	U	10000
91-94-1	3,3'-dichlorobenzidine	U	10000
56-55-3	benzo(a)anthracene	U	3300
117-81-7	bis(2-ethylhexyl)phthalate	U	3300
218-01-9	chrysene	U	3300
117-84-0	di-n-octylphthalate	U	3300

See footnotes on Page 4.

ANALYTICAL REPORT FOR SAMPLE No. EK4386

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZS2 Sponsor WESTINGHOUSE HANFORD CO.

Cas. No.	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
205-99-2	benzo(b)fluoranthene	U	3300
207-08-9	benzo(k)fluoranthene	U	3300
50-32-8	benzo(a)pyrene	U	3300
193-39-5	indeno(1,2,3-cd)pyrene	U	3300
53-70-3	dibenzo(a,h)anthracene	U	3300
191-24-2	benzo(g,h,i)perylene	U	3300
53494-70-5	endrin ketone	U	10000
109-06-8	2-picoline	U	10000
62-50-0	ethyl methanesulfonate	U	10000
66-27-3	methyl methanesulfonate	U	10000
62-53-3	aniline	U	10000
98-86-2	acetophenone	U	10000
100-75-4	N-nitroso-piperidine	U	10000
122-09-8	a,a-dimethylphenethylamine	U	10000
87-65-0	2,6-dichlorophenol	U	10000
924-16-3	N-nitroso-di-n-butylamine	U	10000
95-94-3	1,2,4,5-tetrachlorobenzene	U	10000
90-13-1	1-chloronaphthalene	U	10000
608-93-5	pentachlorobenzene	U	10000
134-32-7	1-naphthylamine	U	10000
58-90-2	2,3,4,6-tetrachlorophenol	U	10000
91-59-8	2-naphthylamine	U	10000
62-44-2	phenacetin	U	10000
92-67-1	4-aminobiphenyl	U	10000
23950-58-5	pronamide (propyzamide)	U	10000
82-68-8	pentachloronitrobenzene	U	10000
92-87-5	benzidine	U	10000
60-11-7	p-dimethylaminoazobenzene	U	10000
57-97-6	7,12-dimethbenz(a)anthracene	U	10000
56-49-5	3-methylchloranthrene	U	10000
57-74-9	chlordane	U	100000
8001-35-2	toxaphene	U	100000
12674-11-2	PCB-1016	U	100000
11104-28-2	PCB-1221	U	100000
11141-16-5	PCB-1232	U	100000
53469-21-9	PCB-1242	U	100000
12672-29-6	PCB-1248	U	100000
11097-69-1	PCB-1254	U	100000
11096-82-5	PCB-1260	U	100000

See footnotes on Page 4.

ANALYTICAL REPORT FOR SAMPLE No. EK4386

NON-TARGET ANALYTE RESULTS
Additional Semi-Volatiles

Field Sample ID BOOZS2

Cas. No	COMPOUND	Scan Number	Results ug/Kg	Footnotes
	OCTADECENE CONGENER	1325	54000	NEW
	UNK CYCLIC H.C.	1352	27000	NEW
	UNK POLYCYCLIC H.C.	1381	35000	NEW
	UNK POLYCYCLIC H.C.	1403	89000	NEW
	UNK OXY H.C.	1428	41000	NEW
	UNK POLYCYCLIC H.C.	1475	30000	NEW
	UNK POLYCYCLIC H.C.	1523	26000	NEW
	UNK POLYCYCLIC H.C.	1541	23000	NEW
	ALKANE @ C21	1554	1.2E5	NEW
	UNK POLYCYCLIC H.C.	1734	13000	NEW

FOOTNOTES

B The analyte was found in the method blank. The reported results have been adjusted for the quantity found in the blank.

E The reported concentration is an estimate only. The response factor was assumed to be 1.000 relative to an internal standard.

J Indicates an estimated concentration below the Method Detection Limit.

K The isomer is unknown.

N Analytical standards were not analyzed for this compound.

U Not detected.

W The identification is tentative or closely related to the compound.

9613424.0650

ANALYTICAL REPORT FOR SAMPLE No. EK4387

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZS3 Sponsor WESTINGHOUSE HANFORD CO.

File ID PS5EK4387 Date Extracted 09/17/91 Date of Analysis 10/05/91

DataChem ID S91-0719BC

Cas. No	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
62-75-9	N-nitroso-dimethylamine	U	1000
108-95-2	phenol	U	330
111-44-4	bis(2-chloroethyl)ether	U	330
95-57-8	2-chlorophenol	U	330
541-73-1	1,3-dichlorobenzene	U	330
106-46-7	1,4-dichlorobenzene	U	330
100-51-6	benzyl alcohol	U	1000
95-50-1	1,2-dichlorobenzene	U	330
95-48-7	2-methylphenol	U	330
39638-329	bis(2-chloroisopropyl)ether	U	330
106-44-5	4-methylphenol	U	330
621-64-7	N-nitroso-di-n-propylamine	U	330
67-72-1	hexachloroethane	U	330
98-95-3	nitrobenzene	U	330
78-59-1	isophorone	U	330
88-75-5	2-nitrophenol	U	330
105-67-9	2,4-dimethylphenol	U	330
111-91-1	bis(2-chloroethoxy)methane	U	330
65-85-0	benzoic acid	U	1000
120-83-2	2,4-dichlorophenol	U	330
120-82-1	1,2,4-trichlorobenzene	U	330
91-20-3	naphthalene	750.	330
106-47-8	4-chloroaniline	U	330
87-68-3	hexachlorobutadiene	U	330
59-50-7	4-chloro-3-methylphenol	U	330
91-57-6	2-methylnaphthalene	200.J	330
77-47-4	hexachlorocyclopentadiene	U	330
88-06-2	2,4,6-trichlorophenol	U	330
95-95-4	2,4,5-trichlorophenol	U	800
91-58-7	2-chloronaphthalene	U	330
88-74-4	2-nitroaniline	U	800
131-11-3	dimethyl phthalate	U	330
606-20-2	2,6-dinitrotoluene	U	330
208-96-8	acenaphthylene	30.J	330
99-09-2	3-nitroaniline	U	800
83-32-9	acenaphthene	390.	330
51-28-5	2,4-dinitrophenol	U	800
100-02-7	4-nitrophenol	U	800
132-64-9	dibenzofuran	280.J	330

See footnotes on page 4.

11.2

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ANALYTICAL REPORT FOR SAMPLE No. EK4387

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZS3 Sponsor WESTINGHOUSE HANFORD CO.

Cas. No.	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
121-14-2	2,4-dinitrotoluene	U	330
84-66-2	diethyl phthalate	U	330
7005-72-3	4-chlorophenyl-phenylether	U	330
86-73-7	fluorene	410.	330
100-01-6	4-nitroaniline	U	800
534-52-1	2-methyl-4,6-dinitrophenol	U	800
86-30-6	N-nitroso-diphenylamine	U	330
122-66-7	1,2-diphenylhydrazine	U	1000
101-55-3	4-bromophenyl-phenylether	U	330
319-84-6	.alpha.-BHC	U	1000
319-85-7	beta-BHC	U	5000
118-74-1	hexachlorobenzene	U	330
87-86-5	pentachlorophenol	U	800
58-89-9	.gamma.-BHC	U	1000
85-01-8	phenanthrene	3300.	330
120-12-7	anthracene	320.J	330
319-86-8	delta-BHC	U	5000
76-44-8	heptachlor	U	5000
84-74-2	di-n-butyl phthalate	90.J	330
309-00-2	aldrin	U	5000
1024-57-3	heptachlor epoxide	U	5000
206-44-0	fluoranthene	3200.	330
129-00-0	pyrene	2400.	330
959-98-8	endosulfan I	U	5000
72-55-9	4,4'DDE	U	5000
60-57-1	dieldrin	U	5000
7421-93-4	endrin aldehyde	U	5000
72-20-8	endrin	U	5000
72-54-8	4,4'DDD	U	5000
33213-65-9	endosulfan II	U	5000
85-68-7	butylbenzylphthalate	1100.	330
50-29-3	4,4'DDT	U	5000
1031-07-8	endosulfan sulfate	U	5000
72-43-5	p,p'-methoxychlor	U	1000
91-94-1	3,3'-dichlorobenzidine	U	1000
56-55-3	benzo(a)anthracene	1500.	330
117-81-7	bis(2-ethylhexyl)phthalate	96.J	330
218-01-9	chrysene	1400.	330
117-84-0	di-n-octylphthalate	U	330

See footnotes on Page 4.

ANALYTICAL REPORT FOR SAMPLE No. EK4387

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZS3 Sponsor WESTINGHOUSE HANFORD CO.

Cas. No.	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
205-99-2	benzo(b)fluoranthene	890.	330
207-08-9	benzo(k)fluoranthene	840.	330
50-32-8	benzo(a)pyrene	910.	330
193-39-5	indeno(1,2,3-cd)pyrene	680.	330
53-70-3	dibenzo(a,h)anthracene	240.J	330
191-24-2	benzo(g,h,i)perylene	700.	330
53494-70-5	endrin ketone	U	1000
109-06-8	2-picoline	U	1000
62-50-0	ethyl methanesulfonate	U	1000
66-27-3	methyl methanesulfonate	U	1000
62-53-3	aniline	U	1000
98-86-2	acetophenone	U	1000
100-75-4	N-nitroso-piperidine	U	1000
122-09-8	a,a-dimethylphenethylamine	U	1000
87-65-0	2,6-dichlorophenol	U	1000
924-16-3	N-nitroso-di-n-butylamine	U	1000
95-94-3	1,2,4,5-tetrachlorobenzene	U	1000
90-13-1	1-chloronaphthalene	U	1000
608-93-5	pentachlorobenzene	U	1000
134-32-7	1-naphthylamine	U	1000
58-90-2	2,3,4,6-tetrachlorophenol	U	1000
91-59-8	2-naphthylamine	U	1000
62-44-2	phenacetin	U	1000
92-67-1	4-aminobiphenyl	U	1000
23950-58-5	pronamide (propyzamide)	U	1000
82-68-8	pentachloronitrobenzene	U	1000
92-87-5	benzidine	U	1000
60-11-7	p-dimethylaminoazobenzene	U	1000
57-97-6	7,12-dimethbenz(a)anthracene	U	1000
56-49-5	3-methylchloranthrene	U	1000
57-74-9	chlordane	U	10000
8001-35-2	toxaphene	U	10000
12674-11-2	PCB-1016	P	10000
11104-28-2	PCB-1221	P	10000
11141-16-5	PCB-1232	P	10000
53469-21-9	PCB-1242	P	10000
12672-29-6	PCB-1248	P	10000
11097-69-1	PCB-1254	P	10000
11096-82-5	PCB-1260	P	10000

See footnotes on Page 4.

ANALYTICAL REPORT FOR SAMPLE No. EK4387

NON-TARGET ANALYTE RESULTS
Additional Semi-Volatiles

Field Sample ID BOOZS3

Cas. No	COMPOUND	Scan Number	Results ug/Kg	Footnotes
230-17-1	BENZO[C]CINNOLINE	1359	240	NEW
	NITROGEN CONTAINING PNA, MW=167	1426	350	NEW
	PNA, MW=190	1491	990	NEW
	PNA, MW=204	1519	260	NEW
	DI-OXY PNA, MW=208	1523	570	NEW
	UNK POLYCYCLIC H.C.	1643	110	NEW
	PNA, MW=216	1679	560	NEW
	UNK POLYCYCLIC H.C.	2082	320	NEW
	UNK POLYCYCLIC H.C.	2332	370	NEW
	UNK POLYCYCLIC H.C.	2454	490	NEW

FOOTNOTES

B The analyte was found in the method blank. The reported results have been adjusted for the quantity found in the blank.

E The reported concentration is an estimate only. The response factor was assumed to be 1.000 relative to an internal standard.

J Indicates an estimated concentration below the Method Detection Limit.

K The isomer is unknown.

N Analytical standards were not analyzed for this compound.

U Not detected.

W The identification is tentative or closely related to the compound.

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ANALYTICAL REPORT FOR SAMPLE No. EK4388

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZS4 Sponsor WESTINGHOUSE HANFORD CO.

File ID ZM18EK4388 Date Extracted 09/17/91 Date of Analysis 10/01/91

DataChem ID S91-0719BC

Cas. No	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
62-75-9	N-nitroso-dimethylamine	U	1000
108-95-2	phenol	U	330
111-44-4	bis(2-chloroethyl)ether	U	330
95-57-8	2-chlorophenol	U	330
541-73-1	1,3-dichlorobenzene	U	330
106-46-7	1,4-dichlorobenzene	U	330
100-51-6	benzyl alcohol	U	1000
95-50-1	1,2-dichlorobenzene	U	330
95-48-7	2-methylphenol	U	330
39638-329	bis(2-chloroisopropyl)ether	U	330
106-44-5	4-methylphenol	U	330
621-64-7	N-nitroso-di-n-propylamine	U	330
67-72-1	hexachloroethane	U	330
98-95-3	nitrobenzene	U	330
78-59-1	isophorone	U	330
88-75-5	2-nitrophenol	U	330
105-67-9	2,4-dimethylphenol	U	330
111-91-1	bis(2-chloroethoxy)methane	U	330
65-85-0	benzoic acid	U	1000
120-83-2	2,4-dichlorophenol	U	330
120-82-1	1,2,4-trichlorobenzene	U	330
91-20-3	naphthalene	U	330
106-47-8	4-chloroaniline	U	330
87-68-3	hexachlorobutadiene	U	330
59-50-7	4-chloro-3-methylphenol	U	330
91-57-6	2-methylnaphthalene	U	330
77-47-4	hexachlorocyclopentadiene	U	330
88-06-2	2,4,6-trichlorophenol	U	330
95-95-4	2,4,5-trichlorophenol	U	800
91-58-7	2-chloronaphthalene	U	330
88-74-4	2-nitroaniline	U	800
131-11-3	dimethyl phthalate	U	330
606-20-2	2,6-dinitrotoluene	U	330
208-96-8	acenaphthylene	U	330
99-09-2	3-nitroaniline	U	800
83-32-9	acenaphthene	U	330
51-28-5	2,4-dinitrophenol	U	800
100-02-7	4-nitrophenol	U	800
132-64-9	dibenzofuran	U	330

See footnotes on page 4.

ANALYTICAL REPORT FOR SAMPLE No. EK4388

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZS4 Sponsor WESTINGHOUSE HANFORD CO.

Cas. No.	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
121-14-2	2,4-dinitrotoluene	U	330
84-66-2	diethyl phthalate	U	330
7005-72-3	4-chlorophenyl-phenylether	U	330
86-73-7	fluorene	U	330
100-01-6	4-nitroaniline	U	800
534-52-1	2-methyl-4,6-dinitrophenol	U	800
86-30-6	N-nitroso-diphenylamine	U	330
122-66-7	1,2-diphenylhydrazine	U	1000
101-55-3	4-bromophenyl-phenylether	U	330
319-84-6	.alpha.-BHC	U	1000
319-85-7	beta-BHC	U	5000
118-74-1	hexachlorobenzene	U	330
87-86-5	pentachlorophenol	U	800
58-89-9	.gamma.-BHC	U	1000
85-01-8	phenanthrene	89.J	330
120-12-7	anthracene	83.J	330
319-86-8	delta-BHC	U	5000
76-44-8	heptachlor	U	5000
84-74-2	di-n-butyl phthalate	U	330
309-00-2	aldrin	U	5000
1024-57-3	heptachlor epoxide	U	5000
206-44-0	fluoranthene	190.J	330
129-00-0	pyrene	180.J	330
959-98-8	endosulfan I	U	5000
72-55-9	4,4'DDE	U	5000
60-57-1	dieldrin	U	5000
7421-93-4	endrin aldehyde	U	5000
72-20-8	endrin	U	5000
72-54-8	4,4'DDD	U	5000
33213-65-9	endosulfan II	U	5000
85-68-7	butylbenzylphthalate	U	330
50-29-3	4,4'DDT	U	5000
1031-07-8	endosulfan sulfate	U	5000
72-43-5	p,p'-methoxychlor	U	1000
91-94-1	3,3'-dichlorobenzidine	U	1000
56-55-3	benzo(a)anthracene	U	330
117-81-7	bis(2-ethylhexyl)phthalate	U	330
218-01-9	chrysene	160.J	330
117-84-0	di-n-octylphthalate	U	330

See footnotes on Page 4.

ANALYTICAL REPORT FOR SAMPLE No. EK4388

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZS4 Sponsor WESTINGHOUSE HANFORD CO.

Cas. No.	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
205-99-2	benzo(b)fluoranthene	U	330
207-08-9	benzo(k)fluoranthene	U	330
50-32-8	benzo(a)pyrene	U	330
193-39-5	indeno(1,2,3-cd)pyrene	U	330
53-70-3	dibenzo(a,h)anthracene	U	330
191-24-2	benzo(g,h,i)perylene	U	330
53494-70-5	endrin ketone	U	1000
109-06-8	2-picoline	U	1000
62-50-0	ethyl methanesulfonate	U	1000
66-27-3	methyl methanesulfonate	U	1000
62-53-3	aniline	U	1000
98-86-2	acetophenone	U	1000
100-75-4	N-nitroso-piperidine	U	1000
122-09-8	a,a-dimethylphenethylamine	U	1000
87-65-0	2,6-dichlorophenol	U	1000
924-16-3	N-nitroso-di-n-butylamine	U	1000
95-94-3	1,2,4,5-tetrachlorobenzene	U	1000
90-13-1	1-chloronaphthalene	U	1000
608-93-5	pentachlorobenzene	U	1000
134-32-7	1-naphthylamine	U	1000
58-90-2	2,3,4,6-tetrachlorophenol	U	1000
91-59-8	2-naphthylamine	U	1000
62-44-2	phenacetin	U	1000
92-67-1	4-aminobiphenyl	U	1000
23950-58-5	pronamide (propyzamide)	U	1000
82-68-8	pentachloronitrobenzene	U	1000
92-87-5	benzidine	U	1000
60-11-7	p-dimethylaminoazobenzene	U	1000
57-97-6	7,12-dimethbenz(a)anthracene	U	1000
56-49-5	3-methylchloranthrene	U	1000
57-74-9	chlordane	U	10000
8001-35-2	toxaphene	U	10000
12674-11-2	PCB-1016	U	10000
11104-28-2	PCB-1221	U	10000
11141-16-5	PCB-1232	U	10000
53469-21-9	PCB-1242	U	10000
12672-29-6	PCB-1248	U	10000
11097-69-1	PCB-1254	U	10000
11096-82-5	PCB-1260	U	10000

See footnotes on Page 4.

ANALYTICAL REPORT FOR SAMPLE No. EK4388

NON-TARGET ANALYTE RESULTS
Additional Semi-Volatiles

Field Sample ID BOOZS4

Cas. No	COMPOUND	Scan Number	Results ug/Kg	Footnotes
	ALDOL CONDENSATION PRODUCT	552	400	NEWB
	ALDOL CONDENSATION PRODUCT	594	1400	NEWB
	HEXANEDIOIC ACID, C8 ESTER	1744	440	NEW

FOOTNOTES

B The analyte was found in the method blank. The reported results have been adjusted for the quantity found in the blank.

E The reported concentration is an estimate only. The response factor was assumed to be 1.000 relative to an internal standard.

J Indicates an estimated concentration below the Method Detection Limit.

K The isomer is unknown.

N Analytical standards were not analyzed for this compound.

U Not detected.

W The identification is tentative or closely related to the compound.

ANALYTICAL REPORT FOR SAMPLE No. EK4389

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZS5 Sponsor WESTINGHOUSE HANFORD CO.

File ID ZO10EK4389 Date Extracted 09/17/91 Date of Analysis 10/03/91

DataChem ID S91-0719BC

Cas. No	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
62-75-9	N-nitroso-dimethylamine	U	1000
108-95-2	phenol	U	330
111-44-4	bis(2-chloroethyl)ether	U	330
95-57-8	2-chlorophenol	U	330
541-73-1	1,3-dichlorobenzene	U	330
106-46-7	1,4-dichlorobenzene	U	330
100-51-6	benzyl alcohol	U	1000
95-50-1	1,2-dichlorobenzene	U	330
95-48-7	2-methylphenol	U	330
39638-329	bis(2-chloroisopropyl)ether	U	330
106-44-5	4-methylphenol	U	330
621-64-7	N-nitroso-di-n-propylamine	U	330
67-72-1	hexachloroethane	U	330
98-95-3	nitrobenzene	U	330
78-59-1	isophorone	U	330
88-75-5	2-nitrophenol	U	330
105-67-9	2,4-dimethylphenol	U	330
111-91-1	bis(2-chloroethoxy)methane	U	330
65-85-0	benzoic acid	U	1000
120-83-2	2,4-dichlorophenol	U	330
120-82-1	1,2,4-trichlorobenzene	U	330
91-20-3	naphthalene	U	330
106-47-8	4-chloroaniline	U	330
87-68-3	hexachlorobutadiene	U	330
59-50-7	4-chloro-3-methylphenol	U	330
91-57-6	2-methylnaphthalene	U	330
77-47-4	hexachlorocyclopentadiene	U	330
88-06-2	2,4,6-trichlorophenol	U	330
95-95-4	2,4,5-trichlorophenol	U	800
91-58-7	2-chloronaphthalene	U	330
88-74-4	2-nitroaniline	U	800
131-11-3	dimethyl phthalate	U	330
606-20-2	2,6-dinitrotoluene	U	330
208-96-8	acenaphthylene	U	330
99-09-2	3-nitroaniline	U	800
83-32-9	acenaphthene	27.J	330
51-28-5	2,4-dinitrophenol	U	800
100-02-7	4-nitrophenol	U	800
132-64-9	dibenzofuran	U	330

See footnotes on page 4.

ANALYTICAL REPORT FOR SAMPLE No. EK4389

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZS5 Sponsor WESTINGHOUSE HANFORD CO.

Cas. No.	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
121-14-2	2,4-dinitrotoluene	U	330
84-66-2	diethyl phthalate	U	330
7005-72-3	4-chlorophenyl-phenylether	U	330
86-73-7	fluorene	U	330
100-01-6	4-nitroaniline	U	800
534-52-1	2-methyl-4,6-dinitrophenol	U	800
86-30-6	N-nitroso-diphenylamine	U	330
122-66-7	1,2-diphenylhydrazine	U	1000
101-55-3	4-bromophenyl-phenylether	U	330
319-84-6	.alpha.-BHC	U	1000
319-85-7	beta-BHC	U	5000
118-74-1	hexachlorobenzene	U	330
87-86-5	pentachlorophenol	U	800
58-89-9	.gamma.-BHC	U	1000
85-01-8	phenanthrene	360.	330
120-12-7	anthracene	35.J	330
319-86-8	delta-BHC	U	5000
76-44-8	heptachlor	U	5000
84-74-2	di-n-butyl phthalate	U	330
309-00-2	aldrin	U	5000
1024-57-3	heptachlor epoxide	U	5000
206-44-0	fluoranthene	1100.	330
129-00-0	pyrene	840.	330
959-98-8	endosulfan I	U	5000
72-55-9	4,4'DDE	U	5000
60-57-1	dieldrin	U	5000
7421-93-4	endrin aldehyde	U	5000
72-20-8	endrin	U	5000
72-54-8	4,4'DDD	U	5000
33213-65-9	endosulfan II	U	5000
85-68-7	butylbenzylphthalate	U	330
50-29-3	4,4'DDT	U	5000
1031-07-8	endosulfan sulfate	U	5000
72-43-5	p,p'-methoxychlor	U	1000
91-94-1	3,3'-dichlorobenzidine	U	1000
56-55-3	benzo(a)anthracene	95.J	330
117-81-7	bis(2-ethylhexyl)phthalate	U	330
218-01-9	chrysene	660.	330
117-84-0	di-n-octylphthalate	U	330

See footnotes on Page 4.

ANALYTICAL REPORT FOR SAMPLE No. EK4389

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZS5 Sponsor WESTINGHOUSE HANFORD CO.

Cas. No.	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
205-99-2	benzo(b)fluoranthene	290.J	330
207-08-9	benzo(k)fluoranthene	320.J	330
50-32-8	benzo(a)pyrene	72.J	330
193-39-5	indeno(1,2,3-cd)pyrene	91.J	330
53-70-3	dibenzo(a,h)anthracene	U	330
191-24-2	benzo(g,h,i)perylene	92.J	330
53494-70-5	endrin ketone	U	1000
109-06-8	2-picoline	U	1000
62-50-0	ethyl methanesulfonate	U	1000
66-27-3	methyl methanesulfonate	U	1000
62-53-3	aniline	U	1000
98-86-2	acetophenone	U	1000
100-75-4	N-nitroso-piperidine	U	1000
122-09-8	a,a-dimethylphenethylamine	U	1000
87-65-0	2,6-dichlorophenol	U	1000
924-16-3	N-nitroso-di-n-butylamine	U	1000
95-94-3	1,2,4,5-tetrachlorobenzene	U	1000
90-13-1	1-chloronaphthalene	U	1000
608-93-5	pentachlorobenzene	U	1000
134-32-7	1-naphthylamine	U	1000
58-90-2	2,3,4,6-tetrachlorophenol	U	1000
91-59-8	2-naphthylamine	U	1000
62-44-2	phenacetin	U	1000
92-67-1	4-aminobiphenyl	U	1000
23950-58-5	pronamide (propyzamide)	U	1000
82-68-8	pentachloronitrobenzene	U	1000
92-87-5	benzidine	U	1000
60-11-7	p-dimethylaminoazobenzene	U	1000
57-97-6	7,12-dimethbenz(a)anthracene	U	1000
56-49-5	3-methylchloranthrene	U	1000
57-74-9	chlordane	U	10000
8001-35-2	toxaphene	T	10000
12674-11-2	PCB-1016	U	10000
11104-28-2	PCB-1221	U	10000
11141-16-5	PCB-1232	U	10000
53469-21-9	PCB-1242	U	10000
12672-29-6	PCB-1248	U	10000
11097-69-1	PCB-1254	U	10000
11096-82-5	PCB-1260	U	10000

See footnotes on Page 4.

ANALYTICAL REPORT FOR SAMPLE No. EK4389

NON-TARGET ANALYTE RESULTS
Additional Semi-Volatiles

Field Sample ID BOOZS5

Cas. No	COMPOUND	Scan Number	Results ug/Kg	Footnotes
	ALDOL CONDENSATION PRODUCT	557	830	NEWB
	ALDOL CONDENSATION PRODUCT	687	310	NEW
	PNA KETONE, MW=208	1486	460	NEW
	PNA KETONE, MW=204	1538	180	NEW
	HEXANEDIOIC ACID, C8 ESTER	1703	170	NEW
	PNA KETONE, MW=230	1720	220	NEW
	PNA, MW=228	1742	220	NEW
	PNA KETONE, MW=230	1753	190	NEW
	PNA KETONE, MW=258	1849	210	NEW
	PNA, MW=252	2029	220	NEW

FOOTNOTES

B The analyte was found in the method blank. The reported results have been adjusted for the quantity found in the blank.

E The reported concentration is an estimate only. The response factor was assumed to be 1.000 relative to an internal standard.

J Indicates an estimated concentration below the Method Detection Limit.

K The isomer is unknown.

N Analytical standards were not analyzed for this compound.

U Not detected.

W The identification is tentative or closely related to the compound.

9613424.0662

ANALYTICAL REPORT FOR SAMPLE No. EK4390

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID B00ZS7 Sponsor WESTINGHOUSE HANFORD CO.

File ID ZM17EK4890 Date Extracted 09/17/91 Date of Analysis 10/01/91

DataChem ID S91-0719BC

Cas. No	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
62-75-9	N-nitroso-dimethylamine	U	1000
108-95-2	phenol	U	330
111-44-4	bis(2-chloroethyl)ether	U	330
95-57-8	2-chlorophenol	U	330
541-73-1	1,3-dichlorobenzene	U	330
106-46-7	1,4-dichlorobenzene	U	330
100-51-6	benzyl alcohol	U	1000
95-50-1	1,2-dichlorobenzene	U	330
95-48-7	2-methylphenol	U	330
39638-329	bis(2-chloroisopropyl)ether	U	330
106-44-5	4-methylphenol	U	330
621-64-7	N-nitroso-di-n-propylamine	U	330
67-72-1	hexachloroethane	U	330
98-95-3	nitrobenzene	U	330
78-59-1	isophorone	U	330
88-75-5	2-nitrophenol	U	330
105-67-9	2,4-dimethylphenol	U	330
111-91-1	bis(2-chloroethoxy)methane	U	330
65-85-0	benzoic acid	U	1000
120-83-2	2,4-dichlorophenol	U	330
120-82-1	1,2,4-trichlorobenzene	U	330
91-20-3	naphthalene	U	330
106-47-8	4-chloroaniline	U	330
87-68-3	hexachlorobutadiene	U	330
59-50-7	4-chloro-3-methylphenol	U	330
91-57-6	2-methylnaphthalene	U	330
77-47-4	hexachlorocyclopentadiene	U	330
88-06-2	2,4,6-trichlorophenol	U	330
95-95-4	2,4,5-trichlorophenol	U	800
91-58-7	2-chloronaphthalene	U	330
88-74-4	2-nitroaniline	U	800
131-11-3	dimethyl phthalate	U	330
606-20-2	2,6-dinitrotoluene	U	330
208-96-8	acenaphthylene	U	330
99-09-2	3-nitroaniline	U	800
83-32-9	acenaphthene	U	330
51-28-5	2,4-dinitrophenol	U	800
100-02-7	4-nitrophenol	U	800
132-64-9	dibenzofuran	U	330

See footnotes on page 4.

ANALYTICAL REPORT FOR SAMPLE No. EK4390

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZS7 Sponsor WESTINGHOUSE HANFORD CO.

Cas. No.	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
121-14-2	2,4-dinitrotoluene	U	330
84-66-2	diethyl phthalate	U	330
7005-72-3	4-chlorophenyl-phenylether	U	330
86-73-7	fluorene	U	330
100-01-6	4-nitroaniline	U	800
534-52-1	2-methyl-4,6-dinitrophenol	U	800
86-30-6	N-nitroso-diphenylamine	U	330
122-66-7	1,2-diphenylhydrazine	U	1000
101-55-3	4-bromophenyl-phenylether	U	330
319-84-6	.alpha.-BHC	U	1000
319-85-7	beta-BHC	U	5000
118-74-1	hexachlorobenzene	U	330
87-86-5	pentachlorophenol	U	800
58-89-9	.gamma.-BHC	U	1000
85-01-8	phenanthrene	U	330
120-12-7	anthracene	U	330
319-86-8	delta-BHC	U	5000
76-44-8	heptachlor	U	5000
84-74-2	di-n-butyl phthalate	120.J	330
309-00-2	aldrin	U	5000
1024-57-3	heptachlor epoxide	U	5000
206-44-0	fluoranthene	U	330
129-00-0	pyrene	U	330
959-98-8	endosulfan I	U	5000
72-55-9	4,4'DDE	U	5000
60-57-1	dieldrin	U	5000
7421-93-4	endrin aldehyde	U	5000
72-20-8	endrin	U	5000
72-54-8	4,4'DDD	U	5000
33213-65-9	endosulfan II	U	5000
85-68-7	butylbenzylphthalate	810.	330
50-29-3	4,4'DDT	U	5000
1031-07-8	endosulfan sulfate	U	5000
72-43-5	p,p'-methoxychlor	U	1000
91-94-1	3,3'-dichlorobenzidine	U	1000
56-55-3	benzo(a)anthracene	U	330
117-81-7	bis(2-ethylhexyl)phthalate	29.J	330
218-01-9	chrysene	U	330
117-84-0	di-n-octylphthalate	U	330

See footnotes on Page 4.

ANALYTICAL REPORT FOR SAMPLE No. EK4390

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZS7 Sponsor WESTINGHOUSE HANFORD CO.

Cas. No.	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
205-99-2	benzo(b)fluoranthene	U	330
207-08-9	benzo(k)fluoranthene	U	330
50-32-8	benzo(a)pyrene	U	330
193-39-5	indeno(1,2,3-cd)pyrene	U	330
53-70-3	dibenzo(a,h)anthracene	U	330
191-24-2	benzo(g,h,i)perylene	U	330
53494-70-5	endrin ketone	U	1000
109-06-8	2-picoline	U	1000
62-50-0	ethyl methanesulfonate	U	1000
66-27-3	methyl methanesulfonate	U	1000
62-53-3	aniline	U	1000
98-86-2	acetophenone	U	1000
100-75-4	N-nitroso-piperidine	U	1000
122-09-8	a,a-dimethylphenethylamine	U	1000
87-65-0	2,6-dichlorophenol	U	1000
924-16-3	N-nitroso-di-n-butylamine	U	1000
95-94-3	1,2,4,5-tetrachlorobenzene	U	1000
90-13-1	1-chloronaphthalene	U	1000
608-93-5	pentachlorobenzene	U	1000
134-32-7	1-naphthylamine	U	1000
58-90-2	2,3,4,6-tetrachlorophenol	U	1000
91-59-8	2-naphthylamine	U	1000
62-44-2	phenacetin	U	1000
92-67-1	4-aminobiphenyl	U	1000
23950-58-5	pronamide (propyzamide)	U	1000
82-68-8	pentachloronitrobenzene	U	1000
92-87-5	benzidine	U	1000
60-11-7	p-dimethylaminoazobenzene	U	1000
57-97-6	7,12-dimethbenz(a)anthracene	U	1000
56-49-5	3-methylchloranthrene	U	1000
57-74-9	chlordane	U	10000
8001-35-2	toxaphene	U	10000
12674-11-2	PCB-1016	U	10000
11104-28-2	PCB-1221	U	10000
11141-16-5	PCB-1232	U	10000
53469-21-9	PCB-1242	U	10000
12672-29-6	PCB-1248	U	10000
11097-69-1	PCB-1254	U	10000
11096-82-5	PCB-1260	U	10000

See footnotes on Page 4.

ANALYTICAL REPORT FOR SAMPLE No. EK4390

NON-TARGET ANALYTE RESULTS
Additional Semi-Volatiles

Field Sample ID BOOZS7

Cas. No	COMPOUND	Scan Number	Results ug/Kg	Footnotes
	ALDOL CONDENSATION PRODUCT	549	380	NEWB
	ALDOL CONDENSATION PRODUCT	592	640	NEWB
	HEXANEDIOIC ACID, C8 ESTER	1744	120	NEW

FOOTNOTES

B The analyte was found in the method blank. The reported results have been adjusted for the quantity found in the blank.

E The reported concentration is an estimate only. The response factor was assumed to be 1.000 relative to an internal standard.

J Indicates an estimated concentration below the Method Detection Limit.

K The isomer is unknown.

N Analytical standards were not analyzed for this compound.

U Not detected.

W The identification is tentative or closely related to the compound.

9613424.0666

ANALYTICAL REPORT FOR SAMPLE No. EK4391

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID B00ZS8 Sponsor WESTINGHOUSE HANFORD CO.

File ID ZL5EK4391 Date Extracted 09/17/91 Date of Analysis 09/30/91

DataChem ID S91-0719BC

Cas. No	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
62-75-9	N-nitroso-dimethylamine	U	1000
108-95-2	phenol	U	330
111-44-4	bis(2-chloroethyl)ether	U	330
95-57-8	2-chlorophenol	U	330
541-73-1	1,3-dichlorobenzene	U	330
106-46-7	1,4-dichlorobenzene	U	330
100-51-6	benzyl alcohol	U	1000
95-50-1	1,2-dichlorobenzene	U	330
95-48-7	2-methylphenol	U	330
39638-329	bis(2-chloroisopropyl)ether	U	330
106-44-5	4-methylphenol	U	330
621-64-7	N-nitroso-di-n-propylamine	U	330
67-72-1	hexachloroethane	U	330
98-95-3	nitrobenzene	U	330
78-59-1	isophorone	U	330
88-75-5	2-nitrophenol	U	330
105-67-9	2,4-dimethylphenol	U	330
111-91-1	bis(2-chloroethoxy)methane	U	330
65-85-0	benzoic acid	U	1000
120-83-2	2,4-dichlorophenol	U	330
120-82-1	1,2,4-trichlorobenzene	U	330
91-20-3	naphthalene	U	330
106-47-8	4-chloroaniline	U	330
87-68-3	hexachlorobutadiene	U	330
59-50-7	4-chloro-3-methylphenol	U	330
91-57-6	2-methylnaphthalene	U	330
77-47-4	hexachlorocyclopentadiene	U	330
88-06-2	2,4,6-trichlorophenol	U	330
95-95-4	2,4,5-trichlorophenol	U	800
91-58-7	2-chloronaphthalene	U	330
88-74-4	2-nitroaniline	U	800
131-11-3	dimethyl phthalate	U	330
606-20-2	2,6-dinitrotoluene	U	330
208-96-8	acenaphthylene	U	330
99-09-2	3-nitroaniline	U	800
83-32-9	acenaphthene	U	330
51-28-5	2,4-dinitrophenol	U	800
100-02-7	4-nitrophenol	U	800
132-64-9	dibenzofuran	U	330

See footnotes on page 4.

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ANALYTICAL REPORT FOR SAMPLE No. EK4391

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZS8 Sponsor WESTINGHOUSE HANFORD CO.

Cas. No.	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
121-14-2	2,4-dinitrotoluene	U	330
84-66-2	diethyl phthalate	U	330
7005-72-3	4-chlorophenyl-phenylether	U	330
86-73-7	fluorene	U	330
100-01-6	4-nitroaniline	U	800
534-52-1	2-methyl-4,6-dinitrophenol	U	800
86-30-6	N-nitroso-diphenylamine	U	330
122-66-7	1,2-diphenylhydrazine	U	1000
101-55-3	4-bromophenyl-phenylether	U	330
319-84-6	.alpha.-BHC	U	1000
319-85-7	beta-BHC	U	5000
118-74-1	hexachlorobenzene	U	330
87-86-5	pentachlorophenol	U	800
58-89-9	.gamma.-BHC	U	1000
85-01-8	phenanthrene	U	330
120-12-7	anthracene	U	330
319-86-8	delta-BHC	U	5000
76-44-8	heptachlor	U	5000
84-74-2	di-n-butyl phthalate	U	330
309-00-2	aldrin	U	5000
1024-57-3	heptachlor epoxide	U	5000
206-44-0	fluoranthene	U	330
129-00-0	pyrene	U	330
959-98-8	endosulfan I	U	5000
72-55-9	4,4'DDE	U	5000
60-57-1	dieldrin	U	5000
7421-93-4	endrin aldehyde	U	5000
72-20-8	endrin	U	5000
72-54-8	4,4'DDD	U	5000
33213-65-9	endosulfan II	U	5000
85-68-7	butylbenzylphthalate	U	330
50-29-3	4,4'DDT	U	5000
1031-07-8	endosulfan sulfate	U	5000
72-43-5	p,p'-methoxychlor	U	1000
91-94-1	3,3'-dichlorobenzidine	U	1000
56-55-3	benzo(a)anthracene	U	330
117-81-7	bis(2-ethylhexyl)phthalate	U	330
218-01-9	chrysene	U	330
117-84-0	di-n-octylphthalate	U	330

See footnotes on Page 4.

ANALYTICAL REPORT FOR SAMPLE No. EK4391

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZS8 Sponsor WESTINGHOUSE HANFORD CO.

Cas. No.	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
205-99-2	benzo(b)fluoranthene	U	330
207-08-9	benzo(k)fluoranthene	U	330
50-32-8	benzo(a)pyrene	U	330
193-39-5	indeno(1,2,3-cd)pyrene	U	330
53-70-3	dibenzo(a,h)anthracene	U	330
191-24-2	benzo(g,h,i)perylene	U	330
53494-70-5	endrin ketone	U	1000
109-06-8	2-picoline	U	1000
62-50-0	ethyl methanesulfonate	U	1000
66-27-3	methyl methanesulfonate	U	1000
62-53-3	aniline	U	1000
98-86-2	acetophenone	U	1000
100-75-4	N-nitroso-piperidine	U	1000
122-09-8	a,a-dimethylphenethylamine	U	1000
87-65-0	2,6-dichlorophenol	U	1000
924-16-3	N-nitroso-di-n-butylamine	U	1000
95-94-3	1,2,4,5-tetrachlorobenzene	U	1000
90-13-1	1-chloronaphthalene	U	1000
608-93-5	pentachlorobenzene	U	1000
134-32-7	1-naphthylamine	U	1000
58-90-2	2,3,4,6-tetrachlorophenol	U	1000
91-59-8	2-naphthylamine	U	1000
62-44-2	phenacetin	U	1000
92-67-1	4-aminobiphenyl	U	1000
23950-58-5	pronamide (propyzamide)	U	1000
82-68-8	pentachloronitrobenzene	U	1000
92-87-5	benzidine	U	1000
60-11-7	p-dimethylaminoazobenzene	U	1000
57-97-6	7,12-dimethbenz(a)anthracene	U	1000
56-49-5	3-methylchloranthrene	U	1000
57-74-9	chlordane	U	10000
8001-35-2	toxaphene	U	10000
12674-11-2	PCB-1016	U	10000
11104-28-2	PCB-1221	U	10000
11141-16-5	PCB-1232	U	10000
53469-21-9	PCB-1242	U	10000
12672-29-6	PCB-1248	U	10000
11097-69-1	PCB-1254	U	10000
11096-82-5	PCB-1260	U	10000

See footnotes on Page 4.

ANALYTICAL REPORT FOR SAMPLE No. EK4391

NON-TARGET ANALYTE RESULTS
Additional Semi-Volatiles

Field Sample ID BOOZS8

Cas. No	COMPOUND	Scan Number	Results ug/Kg	Footnotes
	ALDOL CONDENSATION PRODUCT	547	420	NEWB
	ALDOL CONDENSATION PRODUCT	591	540	NEWB
	ALDOL CONDENSATION PRODUCT	651	170	NEW
	BROMODIFLUORO H.C.	829	230	NEW
	HEXANEDIOIC ACID, C8 ESTER	1747	160	NEW

FOOTNOTES

B The analyte was found in the method blank. The reported results have been adjusted for the quantity found in the blank.

E The reported concentration is an estimate only. The response factor was assumed to be 1.000 relative to an internal standard.

J Indicates an estimated concentration below the Method Detection Limit.

K The isomer is unknown.

N Analytical standards were not analyzed for this compound.

U Not detected.

W The identification is tentative or closely related to the compound.

9613424.0670

DATA CHEM LABORATORIES

ANALYTICAL REPORT

Form ARF-AL
Page 1 of 3
Part 1 of 1

OCT 1991 RECEIVED DATA RECEIPT

Date 10/14/91
Agency Identification Number S91-0719-AC
Account No. 3534C

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

FAX (509) 373-3992
Telephone (509) 373-3225

Sampling Collection and Shipment

Sampling Site _____ Date of Collection September 11, 1991

Date Samples Received at DataChem September 13, 1991

Analysis

Method of Analysis 8080

Date(s) of Analysis October 01, 1991

Analytical Results

Field Sample Number	DataChem Lab Number	Sample Type	Aroclor 1016 UG/G	Aroclor 1221 UG/G	Aroclor 1232 UG/G	Aroclor 1242 UG/G	Aroclor 1248 UG/G	Aroclor 1254 UG/G	Aroclor 1260 UG/G		
B00ZQ4	EK 4368	SOIL	ND*	ND*	ND*	ND*	ND*	ND*	ND*		†
B00ZQ5	EK 4369	SOIL	ND*	ND*	ND*	ND*	ND*	ND*	9.8		†
B00ZQ6	EK 4370	SOIL	ND*	ND*	ND*	ND*	ND*	ND*	2.8		†
B00ZQ7	EK 4371	SOIL	ND*	ND*	ND*	ND*	ND*	ND*	.16		†
B00ZQ8	EK 4372	SOIL	ND*	ND*	ND*	ND*	ND*	ND*	4.8		†
B00ZQ9	EK 4373	SOIL	ND*	ND*	ND*	ND*	ND*	ND*	1.6		†
B00ZR0	EK 4374	SOIL	ND*	ND*	ND*	ND*	ND*	ND*	.10		†
B00ZR1	EK 4375	SOIL	ND*	ND*	ND*	ND*	ND*	ND*	2.3		†
B00ZR2	EK 4376	SOIL	ND*	ND*	ND*	ND*	ND*	ND*	5.6		†
B00ZR3	EK 4377	SOIL	ND*	ND*	ND*	ND*	ND*	ND*	2.1		†
B00ZR4	EK 4378	SOIL	ND*	ND*	ND*	ND*	ND*	ND*	ND*		†
B00ZR5	EK 4379	SOIL	ND*	ND*	ND*	ND*	ND*	ND*	1.3		†
B00ZR6	EK 4380	SOIL	ND*	ND*	ND*	ND*	ND*	ND*	73000		†

* See comment on last page.
ND Parameter not detected.
NR Parameter not requested.
** See comment on last page.
( ) Parameter between LOD and LOQ.

Kuang Chang Tang
Analyst: Kuang C. Tang

Reviewer:

Laboratory Supervisor:

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

9613424.0671

DATA CHEM LABORATORIES

ANALYTICAL REPORT

Date 10/14/91
Agency Identification Number S91-0719-AC

Analytical Results

Field Sample Number	DataChem Lab Number	Sample Type	Aroclor 1016 UG/G	Aroclor 1221 UG/G	Aroclor 1232 UG/G	Aroclor 1242 UG/G	Aroclor 1248 UG/G	Aroclor 1254 UG/G	Aroclor 1260 UG/G		
BOOZR7	EK 4381	SOIL	ND*	ND*	ND*	ND*	ND*	ND*	ND*		†
BOOZR8	EK 4382	SOIL	ND*	ND*	ND*	ND*	ND*	ND*	ND*		†
BOOZR9	EK 4383	SOIL	ND*	ND*	ND*	ND*	ND*	ND*	2.9		†
BOOZS0	EK 4384	SOIL	ND*	ND*	ND*	ND*	ND*	ND*	4.0		†
BOOZS1	EK 4385	SOIL	ND*	ND*	ND*	ND*	ND*	ND*	2.3		†
BOOZS2	EK 4386	SOIL	ND*	ND*	ND*	ND*	ND*	ND*	2.6		†
BOOZS3	EK 4387	SOIL	ND*	ND*	ND*	ND*	ND*	ND*	.47		†
BOOZS4	EK 4388	SOIL	ND*	ND*	ND*	ND*	ND*	ND*	ND*		†
BOOZS5	EK 4389	SOIL	ND*	ND*	ND*	ND*	ND*	ND*	.013		†
BOOZS7	EK 4390	SOIL	ND*	ND*	ND*	ND*	ND*	ND*	.061		†
BOOZS8	EK 4391	SOIL	ND*	ND*	ND*	ND*	ND*	ND*	ND*		†
MS 1	EK 4392	SOIL	ND*	ND*	ND*	ND*	ND*	ND*	ND*		†
MSD 1	EK 4393	SOIL	ND*	ND*	ND*	ND*	ND*	ND*	ND*		†
MS 2	EK 4394	SOIL	.59	ND*	ND*	ND*	ND*	ND*	.50		†
MSD 2	EK 4395	SOIL	.55	ND*	ND*	ND*	ND*	ND*	.63		†
* Limit of Detection			.0067	.0067	.0067	.0067	.0067	.0067	.0067		

* See comment on last page.
ND Parameter not detected.
NR Parameter not requested.

** See comment on last page.
( ) Parameter between LOD and LOQ.

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

2

9613424.0672

DATA CHEM LABORATORIES

ANALYTICAL REPORT

Date 10/14/91
Agency Identification Number S91-0719-AC

General Set Comments

100 UL OF 20 UG/ML OF DBC AND TCMX(SURROGATES) WERE SPIKED INTO ALL OF THE SAMPLES. 500 UL OF 10 UG/ML OF PCB-1016 AND 1260 WERE SPIKED INTO EK4369 AND 4391 AS MATRIX SPIKES-EK4392(MS1),EK4393(MSD1),EK4394(MS2),EK4395(MSD2). EK4369 CONTAINS PCB-1260.

Sample Comments

DataChem Lab Number	-- Comment --
EK 4368	RECOVERY(TCMX), 79%.
EK 4369	1:10. RECOVERY(TCMX), 73%.
EK 4370	1:10. RECOVERY(TCMX), 73%.
EK 4371	RECOVERY(TCMX), 91%.
EK 4372	1:10. RECOVERY(TCMX), 69%.
EK 4373	1:10. RECOVERY(TCMX), 59%.
EK 4374	RECOVERY(TCMX), 80%.
EK 4375	1:10. RECOVERY(TCMX), 57%.
EK 4376	1:10. RECOVERY(TCMX), 44%.
EK 4377	1:10. RECOVERY(TCMX), 61%.
EK 4378	RECOVERY(TCMX), 72%.
EK 4379	RECOVERY(TCMX), 82%.
EK 4380	1:1000000. RECOVERY(TCMX), 70%.
EK 4381	RECOVERY(TCMX), 79%.
EK 4382	RECOVERY(TCMX), 88%.
EK 4383	1:10. RECOVERY(TCMX), 120%.
EK 4384	1:10. RECOVERY(TCMX), 75%.
EK 4385	1:10. RECOVERY(TCMX), 120%.
EK 4386	1:10. RECOVERY(TCMX), 94%.
EK 4387	RECOVERY(TCMX), 85%.
EK 4388	RECOVERY(TCMX), 88%.
EK 4389	RECOVERY(TCMX), 81%.
EK 4390	RECOVERY(TCMX), 76%.
EK 4391	RECOVERY(TCMX), 93%.
EK 4392	RECOVERY(TCMX), 70%.
EK 4393	RECOVERY(TCMX), 77%.
EK 4394	RECOVERY(TCMX), 89%; PCB-1016, 117%; PCB-1260, 100%.
EK 4395	RECOVERY(TCMX), 78%; PCB-1016, 111%; PCB-1260, 125%.

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

Westinghouse Hanford Company 9613424.0673

CHAIN OF CUSTODY

Custody Form Initiator C.E. Heiden

Company Contact Mike Stankovich Telephone 376-2493

Project Designation/Sampling Locations 100-DR-1 Collection Date 9/11/91

PCB Sampling

Ice Chest No. RM #43 Field Logbook No.

Bill of Lading/Airbill No. 247425143 9 Offsite Property No. W91-0-0573

Method of Shipment Emery

Shipped to Data Chem Laboratories

Possible Sample Hazards/Remarks —

Sample Identification

B00ZQ4 thru B00ZQ9
B00ZR0 thru B00ZR9
B00ZS0 thru B00ZS5 } SOIL
B00ZS7
B00ZS8

☐ Field Transfer of Custody

CHAIN OF POSSESSION (Sign and Print Names)

Relinquished by:	Received by:	Date/Time:
Relinquished by: C.E. Heiden C.E. Heiden	Received by: T. Jackson	Date/Time: 9-13-91 1100
Relinquished by:	Received by:	Date/Time:
Relinquished by:	Received by:	Date/Time:
Relinquished by:	Received by:	Date/Time:

Final Sample Disposition

Disposal Method:	Disposed by:	Date/Time:

Comments:

A-6000-407 (12/90)

9613424.0674

ANALYTICAL REQUEST FORM

DATA CHEM LABORATORIES

1. ☒ **REGULAR Status**

☐ **RUSH Status Requested - ADDITIONAL CHARGE**

RESULTS REQUIRED BY _____ DATE

CONTACT DATACHEM LABS PRIOR TO SENDING SAMPLES.

2. Date 9-13-91 Purchase Order No. _____

3. Company Name Westinghouse Hanford Co.

Address P.O. Box 1970

Richland, WA

Person to Contact Mike Stankovich

Telephone (509) 376-2493

Fax Telephone ( ) _____

Billing Address (if different from above)

_____

_____

4. **Sample Collection**

Sampling Site _____

Industrial Process _____

Date of Collection 9-11-91

Time Collected _____

Date of Shipment 9-12-91

Chain of Custody No. _____

5. **REQUEST FOR ANALYSES**

Laboratory Use Only	Client Sample Number	Media Type*	Sample Volume (Liters)	ANALYSES REQUESTED - Use Method Number if Known
EK 4368	B00 ZQ4	Soil		Volatiles (8240); Semi-Vols (8270); PCB's (8080)
4369	ZQ5			
4370	ZQ6			
4371	ZQ7			
4372	ZQ8			
4373	ZQ9			
4374	ZR0			
4375	ZR1			
4376	ZR2			
4377	ZR3			
4378	ZR4			
4399	ZR5			

*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 _____

Possible Contamination and/or Chemical Hazards _____

7. Requested by _____

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**

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9613424.0675

ANALYTICAL REQUEST FORM

DATA CHEM LABORATORIES

1. ☑ **REGULAR Status**

☐ **RUSH Status Requested - ADDITIONAL CHARGE**

RESULTS REQUIRED BY _____ DATE

CONTACT DATACHEM LABS PRIOR TO SENDING SAMPLES.

2. Date 9-13-91 Purchase Order No. _____

3. Company Name Westinghouse Hanford Co.

Address P.O. Box 1970

Richland, WA

Person to Contact Mike Stankovich

Telephone (509) 376-2493

Fax Telephone ( ) _____

Billing Address (if different from above)

_____

_____

4. **Sample Collection**

Sampling Site _____

Industrial Process _____

Date of Collection 9-11-91

Time Collected _____

Date of Shipment 9-12-91

Chain of Custody No. _____

5. **REQUEST FOR ANALYSES**

Laboratory Use Only	Client Sample Number	Media Type*	Sample Volume (Liters)	ANALYSES REQUESTED - Use Method Number if Known
EK 4380	B00 ZR6	Soil		Volatiles (8240); Semi-Vols (8270); PCB's (8080)
4381	ZR7			
4382	ZR8			
4383	ZR9			
4384	ZS0			
4385	ZS1			
4386	ZS2			
4387	ZS3			
4388	ZS4			
4389	ZS5			
4390	ZS7			
4391	ZS8			

*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 _____

Possible Contamination and/or Chemical Hazards _____

7. Requested by _____

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**

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9613424.0676

ANALYTICAL REQUEST FORM

DATA CHEM LABORATORIES

1. ☒ **REGULAR Status**

☐ **RUSH Status Requested - ADDITIONAL CHARGE**

RESULTS REQUIRED BY _____ DATE

CONTACT DATACHEM LABS PRIOR TO SENDING SAMPLES.

2. Date 9-13-91 Purchase Order No. _____

3. Company Name Westinghouse Hanford Co.

Address P.O. Box 1970

Richland, WA

Person to Contact Mike Stankovich

Telephone (509) 376-2493

Fax Telephone ( ) _____

Billing Address (if different from above)

_____

_____

4. **Sample Collection**

Sampling Site _____

Industrial Process _____

Date of Collection 9-11-91

Time Collected _____

Date of Shipment 9-12-91

Chain of Custody No. _____

5. **REQUEST FOR ANALYSES**

Laboratory Use Only	Client Sample Number	Media Type*	Sample Volume (Liters)	ANALYSES REQUESTED - Use Method Number if Known
EK 4392	MS1	Soil		Volatiles (8240); Semi-Vols (8270); PCB's (8080)
4393	MSD1			
4394	MS2			
4395	MSD2			

*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 _____

_____

Possible Contamination and/or Chemical Hazards _____

7. Requested by _____

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**

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10

9613424.067

ANALYTICAL REQUEST FORM

DATA CHEM LABORATORIES

1. ☐ **REGULAR Status**

☐ **RUSH Status Requested - ADDITIONAL CHARGE**

RESULTS REQUIRED BY _____ DATE

CONTACT DATACHEM LABS PRIOR TO SENDING SAMPLES.

2. Date 9/12/91 Purchase Order No. _____

3. Company Name Westinghouse Hanford Co.

Address P.O. Box 1970
Richland, WA

Person to Contact Mike Stankovich

Telephone (509) 376-2493

Fax Telephone ( ) _____

Billing Address (if different from above)

_____

_____

4. **Sample Collection**

Sampling Site 100-DR-1

Industrial Process _____

Date of Collection 9/11/91

Time Collected _____

Date of Shipment 9/12/91

Chain of Custody No. _____

5. **REQUEST FOR ANALYSES**

Laboratory Use Only	Client Sample Number	Media Type*	Sample Volume (Liters)	ANALYSES REQUESTED - Use Method Number if Known
	B00ZQ4 thru B00ZQ9	Soil		All Samples to be analyzed for the following: VOA Method 8240 – 120ml bottle; Semi-VOA Method 8270, PCB's Method 8080 } 250ml bottle
	B00ZR0 thru B00ZR9	Soil		Note: Total Activity Report B00ZS7 is for B00ZQ4, B00ZS7 and B00ZS8. (Reprensative of sand used for QA samples)
	B00ZS0 thru B00ZS5	Soil		
	B00ZS7	Soil		
	B00ZS8	Soil		

*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 9/17/91 JJ(ALL) - THREE Samples Missing [VOAs B00ZS7-8 ; SV/PCB B00ZQ4] on Receipt

Possible Contamination and/or Chemical Hazards _____

7. Requested by Mike Stankovich

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

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ORIGIN COPY

1 Sender's Federal Express Account Number: 1094-4715-3 Date: 11.8.91

From (Your Name) Please Print: J. Stowell Your Phone Number (Very Important): 801-266-7700

Company: DATACHEM LABORATORIES Department/Floor No

Street Address: 960 W LEVOY DR

City: SALT LAKE CITY State: UT ZIP Required: 84123

2 To (Recipient's Name) Please Print: Jeanette Duncan Recipient's Phone Number (Very Important): (509) 373 3275

Company: Westinghouse Environmental Department/Floor No

Exact Street Address (We Cannot Deliver to P.O. Boxes or P.O. Zip Codes): 2355 Stevens Drive MSIN T6-08

City: [redacted] Richland State: WA ZIP Required: 99352

YOUR INTERNAL BILLING REFERENCE INFORMATION (First 24 characters will appear on invoice.) 3019

H IF HOLD FOR PICK-UP, Print FEDEX Address Here
Street Address
City State ZIP Required

3 PAYMENT 1 [XX] Bill Sender Acct No Req'd 2 [ ] Bill Recipient's FedEx Acct No Fill in Account Number below 3 [ ] Bill 3rd Party FedEx Acct No Fill in Account Number below (req'd) 4 [ ] Bill Credit Card Fill in Credit Card No below (req'd) 5 [ ] Cash/Check Acct/Credit Card No Exp Date

4 SERVICES (Check only one box)

Priority Overnight	Standard Overnight
11 [ ] YOUR PACKAGING	51 [XX] YOUR PACKAGING
16 [ ] FEDEX LETTER *	56 [ ] FEDEX LETTER *
12 [ ] FEDEX PAK *	52 [ ] FEDEX PAK *
13 [ ] FEDEX BOX	53 [ ] FEDEX BOX
14 [ ] FEDEX TUBE	54 [ ] FEDEX TUBE
Economy Two-Day	**Government Overnight**
30 [ ] ECONOMY	46 [ ] GOVT LETTER
	41 [ ] GOVT PACKAGE

Freight Service
70 [ ] OVERNIGHT FREIGHT ** (Confirmed reservation required) 80 [ ] TWO-DAY FREIGHT **
Delivery commitment may be later in some areas. *Declared Value Limit $100 **Call for delivery schedule

5 DELIVERY AND SPECIAL HANDLING (Check services required)
1 [ ] HOLD FOR PICK-UP (Fill in Box H)
2 [ ] DELIVER WEEKDAY
3 DELIVER SATURDAY (Extra charge) [ ]
4 [ ] DANGEROUS GOODS (Extra charge)
5 [ ]
6 [ ] DRY ICE lbs
7 [ ] OTHER SPECIAL SERVICE
8 [ ]
9 [ ] SATURDAY PICK UP
10 [ ]
11 [ ]
12 [ ] HOLIDAY DELIVERY (Extra charge)

6 PACKAGES | WEIGHT In Pounds Only | YOUR DECLARED VALUE (See right)
2
Total Total Total
2

DIM SHIPMENT (Chargeable Weight) [ ] lbs
___ x ___ x ___ = ___
Rounded All

1 [ ] Regular Stop 3 [ ] Drop Box
2 [ ] On Call Stop 4 [ ] BSC 5 [ ] Station

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Release Signature:
FedEx Emp. No Date/Time

Federal Express Use
Base Charges
Declared Value Charge
Other 1
Other 2
Total Charges

REVISION DATE 4/91
PART #137204 FXM 5/91
FORMAT #082
082
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0790245035 0790245035 96134214 0678

Westinghouse Hanford Company 9613424.0679

CHAIN OF CUSTODY

OCC142

Custody Form Initiator C.E. Heiden

Company Contact Mike Stankovich

Telephone 376-2493

Project Designation/Sampling Locations 100-DR-1 PCB Sampling

Collection Date 9/11/91

Ice Chest No. RM #43

Field Logbook No.

Bill of Lading/Airbill No. 24742514 3 9

Offsite Property No. W91-0-0573

Method of Shipment Emery

Shipped to Data Chem Laboratories

Possible Sample Hazards/Remarks —

Sample Identification

B00ZQ4 thru B00ZQ9	Soil
B00ZR0 thru B00ZR9	Soil
B00ZS0 thru B00ZS5	Soil
B00ZS7	Soil
B00ZS8	Soil

☐ Field Transfer of Custody

CHAIN OF POSSESSION (Sign and Print Names)

Relinquished by:	Received by:	Date/Time:
C.E. Heiden C.E. Heiden	T. Jackson	9-13-91 1100
Relinquished by:	Received by:	Date/Time:
Relinquished by:	Received by:	Date/Time:
Relinquished by:	Received by:	Date/Time:

Final Sample Disposition

Disposal Method:	Disposed by:	Date/Time:

Comments:

A-6000-407 (12/90)

9613424.0680

ANALYTICAL REQUEST FORM

DATA CHEM LABORATORIES

000139

1. ☑ REGULAR Status

☐ RUSH Status Requested - ADDITIONAL CHARGE

RESULTS REQUIRED BY _____ DATE

CONTACT DATACHEM LABS PRIOR TO SENDING SAMPLES.

2. Date 9-13-91 Purchase Order No. _____

3. Company Name Westinghouse Hanford Co.

Address P.O. Box 1970

Richland, WA

Person to Contact Mike Stankovich

Telephone (509) 376-2493

Fax Telephone ( ) _____

Billing Address (if different from above)

_____

_____

4. Sample Collection

Sampling Site _____

Industrial Process _____

Date of Collection 9-11-91

Time Collected _____

Date of Shipment 9-12-91

Chain of Custody No. _____

5. REQUEST FOR ANALYSES

Laboratory Use Only	Client Sample Number	Media Type*	Sample Volume (Liters)	ANALYSES REQUESTED - Use Method Number if Known
EK 4368	B00 ZQ4	Soil		Volatiles (8240); Semi-Vols (8270); PCB's (8080)
4369	ZQ5			
4370	ZQ6			
4371	ZQ7			
4372	ZQ8			
4373	ZQ9			
4374	ZR0			
4375	ZR1			
4376	ZR2			
4377	ZR3			
4378	ZR4			
4379	ZR5			

*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 _____

Possible Contamination and/or Chemical Hazards _____

7. Requested by _____

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

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9613424.0681

000140

DATA CHEM LABORATORIES

1. ☒ REGULAR Status

☐ RUSH Status Requested - ADDITIONAL CHARGE

RESULTS REQUIRED BY _____ DATE

CONTACT DATACHEM LABS PRIOR TO SENDING SAMPLES.

2. Date 9-13-91 Purchase Order No. _____

3. Company Name Westinghouse Hanford Co.

Address P.O. Box 1970

Richland, WA

Person to Contact Mike Stankovich

Telephone (509) 376-2493

Fax Telephone ( ) _____

Billing Address (if different from above)

4. Sample Collection

Sampling Site _____

Industrial Process _____

Date of Collection 9-11-91

Time Collected _____

Date of Shipment 9-12-91

Chain of Custody No. _____

5. REQUEST FOR ANALYSES

Laboratory Use Only	Client Sample Number	Media Type*	Sample Volume (Liters)	ANALYSES REQUESTED - Use Method Number if Known			
EK 4380	B00 ZR6	Soil		Volatiles (8240); Semi-Vols (8270); PCB's (8080)			
4381	ZR7						
4382	ZR8						
4383	ZR9						
4384	ZS0						
4385	ZS1						
4386	ZS2						
4387	ZS3						
4388	ZS4						
4389	ZS5						
4390	ZS7						
4391	ZS8						

*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 _____

Possible Contamination and/or Chemical Hazards _____

7. Requested by _____

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

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000141

DATA CHEM LABORATORIES

1. ☒ **REGULAR Status**

☐ **RUSH Status Requested - ADDITIONAL CHARGE**

RESULTS REQUIRED BY _____ DATE

CONTACT DATACHEM LABS PRIOR TO SENDING SAMPLES.

2. Date 9-13-91 Purchase Order No. _____

3. Company Name Westinghouse Hanford Co.

Address P.O. Box 1970

Richland, WA

Person to Contact Mike Stankovich

Telephone (509) 376-2493

Fax Telephone ( ) _____

Billing Address (if different from above)

_____

_____

4. **Sample Collection**

Sampling Site _____

Industrial Process _____

Date of Collection 9-11-91

Time Collected _____

Date of Shipment 9-12-91

Chain of Custody No. _____

5. **REQUEST FOR ANALYSES**

Laboratory Use Only	Client Sample Number	*Media Type*	Sample Volume (Liters)	ANALYSES REQUESTED - Use Method Number if Known
EK 4392	MS1	Soil		Volatiles (8240); Semi-Vols (8270); PCB's (8080)
4393	MSD1			
4394	MS2			
4395	MSD2			

*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 _____

_____

Possible Contamination and/or Chemical Hazards _____

7. Requested by _____

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

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000001

DATA CHEM LABORATORIES

ENVIRONMENTAL SOIL REPORT

Form EPRS-A
Page 1 of 5
Part 1 of 4

Date _____
Agency Identification Number S91-0719-AC
Account No. 3534C

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

Telephone (509) 373-3225

Sampling Collection and Shipment

Sampling Site _____ Date of Collection September 11, 1991

Date Samples Received at DataChem September 13, 1991

RB 3/22/93

Analytical Results

Parameter Name / Analysis Date / Method / Prep Method	Units	Field Number / Lab Number	BOOZQ4 EK 4368	BOOZQ5 EK 4369	BOOZQ6 EK 4370	BOOZQ7 EK 4371	BOOZQ8 EK 4372	BOOZQ9 EK 4373	BOOZR0 EK 4374	BOOZR1 EK 4375
Aroclor 1016 10/01/1991 8080	UG/G		ND* UJ	ND* UJ	ND* UJ	ND* UJ	ND* UJ	ND* UJ	ND* UJ	ND* UJ
Aroclor 1221 10/01/1991 8080	UG/G		ND* UJ	ND* UJ	ND* UJ	ND* UJ	ND* UJ	ND* UJ	ND* UJ	ND* UJ
Aroclor 1232 10/01/1991 8080	UG/G		ND* UJ	ND* UJ	ND* UJ	ND* UJ	ND* UJ	ND* UJ	ND* UJ	ND* UJ
Aroclor 1242 10/01/1991 8080	UG/G		ND* UJ	ND* UJ	ND* UJ	ND* UJ	ND* UJ	ND* UJ	ND* UJ	ND* UJ
Aroclor 1248 10/01/1991 8080	UG/G		ND* UJ	ND* UJ	ND* UJ	ND* UJ	ND* UJ	ND* UJ	ND* UJ	ND* UJ
Aroclor 1254 10/01/1991 8080	UG/G		ND* UJ	ND* UJ	ND* UJ	ND* UJ	ND* UJ	ND* UJ	ND* UJ	ND* UJ
Aroclor 1260 10/01/1991 8080	UG/G		ND* UJ	9.8 UJ	2.8 UJ	.16 UJ	4.8 UJ	1.6 UJ	.10 UJ	2.3 UJ

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

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

RB 5/19/93

Analyst: Kuang C. Tang

Reviewer:

Laboratory Supervisor:

RB 5/12/93

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

9613424.0684

000002

DATA CHEM LABORATORIES

ENVIRONMENTAL SOIL REPORT

Form EPRS-A
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Part 2 of 4

Date _____
Agency Identification Number S91-0719-AC
Account No. 3534C

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

Telephone (509) 373-3225

Sampling Collection and Shipment

Sampling Site _____ Date of Collection September 11, 1991

Date Samples Received at DataChem September 13, 1991

RB 3/22/93

Analytical Results

Parameter Name / Analysis Date / Method	Units / Prep Method	Field Number / Lab Number	BOOZR2 EK 4376	BOOZR3 EK 4377	BOOZR4 EK 4378	BOOZR5 EK 4379	BOOZR6 EK 4380	BOOZR7 EK 4381	BOOZR8 EK 4382	BOOZR9 EK 4383
Aroclor 1016 10/01/1991 8080	UG/G		ND* UJ	ND* UJ	ND* UJ	ND* UJ	ND* UJ	ND* UJ	ND* UJ	ND* UJ
Aroclor 1221 10/01/1991 8080	UG/G		ND* UJ	ND* UJ	ND* UJ	ND* UJ	ND* UJ	ND* UJ	ND* UJ	ND* UJ
Aroclor 1232 10/01/1991 8080	UG/G		ND* UJ	ND* UJ	ND* UJ	ND* UJ	ND* UJ	ND* UJ	ND* UJ	ND* UJ
Aroclor 1242 10/01/1991 8080	UG/G		ND* UJ	ND* UJ	ND* UJ	ND* UJ	ND* UJ	ND* UJ	ND* UJ	ND* UJ
Aroclor 1248 10/01/1991 8080	UG/G		ND* UJ	ND* UJ	ND* UJ	ND* UJ	ND* UJ	ND* UJ	ND* UJ	ND* UJ
Aroclor 1254 10/01/1991 8080	UG/G		ND* UJ	ND* UJ	ND* UJ	ND* UJ	ND* UJ	ND* UJ	ND* UJ	ND* UJ
Aroclor 1260 10/01/1991 8080	UG/G		5.6 R UJ	2.1 R UJ	ND* R UJ	1.3 R UJ	73000 R UJ	ND* R UJ	ND* R UJ	2.9 R UJ

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

RB 5/19/93

9613424.0685

000003

DATA CHEM LABORATORIES

ENVIRONMENTAL SOIL REPORT

Form EPRS-A
Page 3 of 5
Part 3 of 4

Date _____
Agency Identification Number S91-0719-AC
Account No. 3534C

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

Telephone (509) 373-3225

Sampling Collection and Shipment

Sampling Site _____ Date of Collection September 11, 1991

Date Samples Received at DataChem September 13, 1991

RB 3/22/93

Analytical Results

Parameter Name / Analysis Date / Method / Prep Method	Units	Field Number / Lab Number	B00ZS0 EK 4384	B00ZS1 EK 4385	B00ZS2 EK 4386	B00ZS3 EK 4387	B00ZS4 EK 4388	B00ZS5 EK 4389	B00ZS7 EK 4390	B00ZS8 EK 4391
Aroclor 1016 10/01/1991 8080	UG/G		ND* UJ	ND* UJ	ND* UJ	ND* UJ	ND* UJ	ND* UJ	ND* UJ	ND* UJ
Aroclor 1221 10/01/1991 8080	UG/G		ND* UJ	ND* UJ	ND* UJ	ND* UJ	ND* UJ	ND* UJ	ND* UJ	ND* UJ
Aroclor 1232 10/01/1991 8080	UG/G		ND* UJ	ND* UJ	ND* UJ	ND* UJ	ND* UJ	ND* UJ	ND* UJ	ND* UJ
Aroclor 1242 10/01/1991 8080	UG/G		ND* UJ	ND* UJ	ND* UJ	ND* UJ	ND* UJ	ND* UJ	ND* UJ	ND* UJ
Aroclor 1248 10/01/1991 8080	UG/G		ND* UJ	ND* UJ	ND* UJ	ND* UJ	ND* UJ	ND* UJ	ND* UJ	ND* UJ
Aroclor 1254 10/01/1991 8080	UG/G		ND* UJ	ND* UJ	ND* UJ	ND* UJ	ND* UJ	ND* UJ	ND* UJ	ND* UJ
Aroclor 1260 10/01/1991 8080	UG/G		4.0 R UJ	2.3 R UJ	2.6 R UJ	.47 R UJ	ND* R UJ	.013 R UJ	.061 R UJ	ND* R UJ

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

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

KB
5/19/93

9613424.0686

000004

DATA CHEM LABORATORIES

ENVIRONMENTAL SOIL REPORT

Form EPRS-A
Page 4 of 5
Part 4 of 4

Date _____
Agency Identification Number S91-0719-AC
Account No. 3534C

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

XO 299

Telephone (509) 373-3225

Sampling Collection and Shipment
Sampling Site _____ Date of Collection September 11, 1991
Date Samples Received at Datachem September 3, 1991

ED=9/15

RB 7/22/95

Analytical Results

Parameter Name / Analysis Date / Method	Units / Prep Method	Field Number / Lab Number	† MS 1 EK 4392	† MSD 1 EK 4393	† MS 2 EK 4394	† MSD 2 EK 4395				* Limit of Detection
Aroclor 1016 10/01/1991 8080	UG/G		ND*	ND*	.59	.55				.0067
Aroclor 1221 10/01/1991 8080	UG/G		ND*	ND*	ND*	ND*				.0067
Aroclor 1232 10/01/1991 8080	UG/G		ND*	ND*	ND*	ND*				.0067
Aroclor 1242 10/01/1991 8080	UG/G		ND*	ND*	ND*	ND*				.0067
Aroclor 1248 10/01/1991 8080	UG/G		ND*	ND*	ND*	ND*				.0067
Aroclor 1254 10/01/1991 8080	UG/G		ND*	ND*	ND*	ND*				.0067
Aroclor 1260 10/01/1991 8080	UG/G		ND*	ND*	.50	.63				.0067

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

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

9613424.0687

000004

DATA CHEM LABORATORIES

ENVIRONMENTAL SOIL REPORT

Form EPRS-A
Page 4 of 5
Part 4 of 4

Date _____
Agency Identification Number S91-0719-AC
Account No. 3534C

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

Telephone (509) 373-3225

Sampling Collection and Shipment

Sampling Site _____ Date of Collection September 11, 1991

Date Samples Received at DataChem September 13, 1991

N/A RB 3/22/9

Analytical Results

Parameter Name / Analysis Date / Method / Prep Method	Units	Field Number / Lab Number	† MS 1 EK 4392	† MSD 1 EK 4393	† MS 2 EK 4394	† MSD 2 EK 4395				* Limit of Detection
Aroclor 1016 10/01/1991 8080	UG/G		ND*	ND*	.59	.55				.0067
Aroclor 1221 10/01/1991 8080	UG/G		ND*	ND*	ND*	ND*				.0067
Aroclor 1232 10/01/1991 8080	UG/G		ND*	ND*	ND*	ND*				.0067
Aroclor 1242 10/01/1991 8080	UG/G		ND*	ND*	ND*	ND*				.0067
Aroclor 1248 10/01/1991 8080	UG/G		ND*	ND*	ND*	ND*				.0067
Aroclor 1254 10/01/1991 8080	UG/G		ND*	ND*	ND*	ND*				.0067
Aroclor 1260 10/01/1991 8080	UG/G		ND*	ND*	.50	.63				.0067

† 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.)

SW 2076 2077 2078 2079 2080 2081 9613424.0688 8270 Int. PNA

Client: Westinghouse Hanford Co. Date: 11/6/91

OCL SET ID: 591-0719-BC Instrument: MS-D

OCL Sample #3: EK4365-93 Supervisor:

Injection date	Injection time	file name	OCL Sample #/ soln #	Client sample #	Analyst
9/30/91	10:08	ZL3BK0917	SBLK01	—	Willis
	12:05	ZL5EK4391	~~B00~~ CW1154 EK4391	B00Z59	
lyst	11:12	ZL4EK4368	EK4368	B00ZQ4	
lis	8:49	ZL1TUNE	DFTPP	—	
	9:06	ZL2550	SW2080	—	
9/28/91	20:20	ZI1TUNE	DFTPP	—	
	20:38	ZI2S160	SW2077	—	
	21:35	ZI3S120	SW2078	—	
	22:35	ZI4S80	SW2079	—	
	23:32	ZI5S50	SW2080	—	
9/29/91	00:41	ZI6S20	SW2081	—	
10/1/91	5:44	ZM7TUNE	DFTPP	—	
	6:03	ZM8S50	SW2080	—	
	7:21	ZM9BK0917	SBLK02	—	
	9:40	ZM11EK4370D	EK4370 ~~B00ZQ~~ CW1154	B00ZQ6	
	10:33	ZM12EK4360D	EK4360	B00ZQ5	
	11:32	ZM13EK4371D	EK4371	B00ZQ7	
	13:30	ZM15EK4373D	EK4373	B00ZQ9	
	15:28	ZM17EK4390	EK4390	B00Z57	
	16:22	ZM18EK4388	EK4388	B00Z54	
10/3/91	2:57	ZQ2TUNE	DFTPP	—	
	4:17	ZQ4S160	SW2077	—	
	5:13	ZQ5S120	SW2078	—	
	6:10	ZQ6S80	SW2079	—	
	7:15	ZQ7S50	SW2080	—	
	8:12	ZQ8S20	SW2081	—	
	10:44	ZQ10EK4389	EK4389	B00Z55	

Continued on Page 10

Injection Date	Injection time	file name	DCL Sample #/ Soln #	Client Sample #	Analyst
10/3/91	12:25	ZQ12EK4382	EK4382	B00ZR8	Willis
	11:34	ZQ11EK4381	EK4381	B00ZR7	
	13:15	ZQ13EK4379	EK4379	B00ZR5	
	14:05	ZQ14EK4378	EK4378	B00ZR4	
	15:58	ZR1TUNE	DFTPP	—	
	~~16:11~~ 11:54	ZR2SSO	SW2080	—	
	18:17	ZR4EK4386D	EK4386	B00ZS2	
	19:13	ZR5EK4385D	EK4385	B00ZS1	
	20:05	ZR6EK4372D	EK4372	B00ZQB	
	20:57	ZR7EK4383D	EK4383	B00ZR9	
	22:39	ZR9EK4384D	EK4384	B00ZS0	
	23:34	ZR10EK4377D	EK4377	B00ZR3	
10/4/91	00:24	ZR11EK76D	EK4375	B00ZR1	
	1:37	ZR12EK76D	EK4376D	B00ZR2	
	5:33	ZS2TUNE	DFTPP	—	
	5:50	ZS3SSO	SW2080	—	
	8:22	ZS5EK4392MS	EK4392MS	B00ZR2MS	
	10:18	ZS7EK4393MD	EK4393MSD	B00ZR2MSD	
	11:08	ZS8EK4394MS	EK4394MS	B00ZS3MS	
	12:12	ZS9EK4395MSD	EK4395MSD	B00ZS3MSD	
	16:24	ZS13EK4374D	EK4374	B00ZR0	
10/5/91	00:28	ZT1TUNE	DFTPP	—	
	00:46	ZT2S100	100 ng/µl Chlordane/mg	—	
	1:33	ZT3S500	500 ng/µl Toxaphene	—	
	2:15	ZT4EK4379	EK4379 ~~B00ZR5~~ 11:54	B00ZR5	
	2:58	ZT5EK4381	EK4381	B00ZR7	
	3:41	ZT6EK4382	EK4382	B00ZR9	
	4:23	ZT7EK4386	EK4386	B00ZS2	
	5:16	ZT8EK4384	EK4384	B00ZS0	
	6:15	ZT9EK4385	EK4385	B00ZS1	

Mix 1 Est II SW 2017

Continued on Page 11

Injection date	Injection time	filename	OCL sample #/solid #	Client sample #	Analyst
10/5/91	7:36	ZT10EK4375	B00ZR1 CW	EK4375	Willis
	8:21	ZT11EK4378	B00ZR4 11-5-91	EK4378	
	9:03	ZT12EK4377	EK4377	B00ZR3	
	9:45	ZT13EK4373	EK4373	B00ZQ9	
	10:57	ZT14EK4383	EK4383	B00ZR9	
	11:45	ZT15EK4372	EK4372	B00ZQ8	
	18:45	ZU9TUNE	DFTPP	—	
	21:42	ZU13S500	50ng/ml Toxaphene	—	
	23:21	ZU15S100	100ng/ml chlordane	—	
10/6/91	00:05	ZU16EK4376	EK4376	B00ZR2	
	1:59	ZU18EK4369	EK4369	B00ZQ5	
10/4/91	6:20	PR3TUNE	DFTPP	—	
	6:37	PR4S160	SW2077 RLH	—	
	7:41	PR5S120	SW2078	—	
	8:43	PR6S80	SW2079	—	
	9:36	PR7S50	SW2080	—	
	10:28	PR8S20	SW2081	—	
10/5/91	00:30	PS1TUNE	DFTPP	—	
	00:49	PS2S50	SW2080	—	
	3:30	PS5EK4387	EK4387	B00ZS3	
10/8/91	3:44	ZU1TUNE	CW 11-5-91 ~~EK~~ DFTPP	—	
	4:12	ZU2S160	SW2077 RLH	—	
	5:13	ZU3S50	SW2080	—	
	6:12	ZU4S20	SW2081	—	
	7:05	ZU5S120	SW2078	—	
	8:02	ZU6S80	SW2079	—	
10/15/91	20:06	AE1TUNE	DFTPP	—	
	20:24	AE2S50	SW2080	—	
	21:23	AE3EK4380	EK4380	B00ZR6	

11-5-91

11

TARGET ANALYTE SUMMARY REPORT

EPA METHOD 8270, 3rd ED.

WC (for Pest analytes only)

Sponsor WESTINGHOUSE HANFORD CO.

Results ug/kg

Field No.	Z04	Z05	Z06	Z07	Method Blank
DataChem EK No.	4368	4369	4370	4371	

RB 3/22/93

COMPOUND					
N-nitroso-dimethylamine	U	U	U	U	U
phenol	U	U	U	U	U
bis(2-chloroethyl)ether	U	U	U	U	U
2-chlorophenol	U	U	U	U	U
1,3-dichlorobenzene	U	U	U	U	U
1,4-dichlorobenzene	U	U	U	U	U
benzyl alcohol	U	U	U	U	U
1,2-dichlorobenzene	U	U	U	U	U
2-methylphenol	U	U	U	U	U
bis(2-chloroisopropyl)ether	U	U	U	U	U
4-methylphenol	U	U	U	U	U
N-nitroso-di-n-propylamine	U	U	U	U	U
hexachloroethane	U	U	U	U	U
nitrobenzene	U	U	U	U	U
isophorone	U	U	U	U	U
2-nitrophenol	U	U	U	U	U
2,4-dimethylphenol	U	U	U	U	U
bis(2-chloroethoxy)methane	U	U	U	U	U
benzoic acid	U	U	U	U	U
2,4-dichlorophenol	U	U	U	U	U
1,2,4-trichlorobenzene	U	U	U	U	U
naphthalene	U	U	220.J	1400.J	U
4-chloroaniline	U	U	U	U	U
hexachlorobutadiene	U	U	U	U	U
4-chloro-3-methylphenol	U	U	U	U	U
2-methylnaphthalene	U	U	U	U	U
hexachlorocyclopentadiene	U	U	U	U	U
2,4,6-trichlorophenol	U	U	U	U	U
2,4,5-trichlorophenol	U	U	U	U	U
2-chloronaphthalene	U	U	U	U	U
2-nitroaniline	U	U	U	U	U
dimethyl phthalate	U	U	U	U	U
2,6-dinitrotoluene	U	U	U	U	U
acenaphthylene	U	U	U	U	U
3-nitroaniline	U	U	U	U	U
acenaphthene	U	U	270.J	1600.J	U
2,4-dinitrophenol	U	U	U	U	U
4-nitrophenol	U	U	U	U	U
dibenzofuran	U	U	U	970.J	U

TARGET ANALYTE SUMMARY REPORT

EPA METHOD 8270, 3rd ED.

Sponsor WESTINGHOUSE HANFORD CO.

Results ug/Kg

Field No.	Z04	Z05	Z06	Z07	Method Blank
DataChem EK No.	4368	4369	4370	4371	
COMPOUND					
2,4-dinitrotoluene	U	U	U	U	U
diethyl phthalate	370.	U	U	U	U
4-chlorophenyl-phenylether	U	U	U	U	U
fluorene	U	U	U	1700.J	U
4-nitroaniline	U	U	U	U	U
2-methyl-4,6-dinitrophenol	U	U	U	U	U
N-nitroso-diphenylamine	U	U	U	U	U
1,2-diphenylhydrazine	U	U	U	U	U
4-bromophenyl-phenylether	U	U	U	U	U
alpha.-BHC	U	U	U	U	U
beta-BHC	U	U	U	U	U
hexachlorobenzene	U	U	U	U	U
pentachlorophenol	U	U	U	U	U
gamma.-BHC	U	U	U	U	U
phenanthrene	U	U	4300.	1.8E4	U
anthracene	U	U	490.J	2500.J	U
delta-BHC	U	U	U	U	U
heptachlor	U	U	U	U	U
di-n-butyl phthalate	U	U	U	U	U
aldrin	U	U	U	U	U
heptachlor epoxide	U	U	U	U	U
fluoranthene	U	610.J	6600.	2.4E4	U
pyrene	U	460.J	5300.	1.8E4	U
endosulfan I	U	U	U	U	U
4,4'DDE	U	U	U	U	U
dieldrin	U	U	U	U	U
endrin aldehyde	U	U	U	U	U
endrin	U	U	U	U	U
4,4'DDD	U	U	U	U	U
endosulfan II	U	U	U	U	U
butylbenzylphthalate	U	U	U	U	U
4,4'DDT	U	U	U	U	U
endosulfan sulfate	U	U	U	U	U
p,p'-methoxychlor	U	U	U	U	U
3,3'-dichlorobenzidine	U	U	U	U	U
benzo(a)anthracene	U	360.J	2200.J	7800.	U
bis(2-ethylhexyl)phthalate	U	U	U	U	U
chrysene	U	650.J	3500.	1.1E4	U
di-n-octylphthalate	U	U	U	U	U

TARGET ANALYTE SUMMARY REPORT

EPA METHOD 8270, 3rd ED.

Sponsor WESTINGHOUSE HANFORD CO.

Results ug/Kg

Field No.	Z04	Z05	Z06	Z07	Method Blank
DataChem EK No.	4368	4369	4370	4371	
COMPOUND					
benzo(b)fluoranthene	U	U	2100.J	5800.	U
benzo(k)fluoranthene	U	U	2600.J	7900.	U
benzo(a)pyrene	U	U	2200.J	6300.	U
indeno(1,2,3-cd)pyrene	U	U	1600.J	5300.	U
dibenzo(a,h)anthracene	U	U	U	U	U
benzo(g,h,i)perylene	U	U	U	6100.	U
endrin ketone	U	U	U	U	U
2-picoline	U	U	U	U	U
ethyl methanesulfonate	U	U	U	U	U
methyl methanesulfonate	U	U	U	U	U
aniline	U	U	U	U	U
acetophenone	U	U	U	U	U
N-nitroso-piperidine	U	U	U	U	U
a,a-dimethylphenethylamine	U	U	U	U	U
2,6-dichlorophenol	U	U	U	U	U
N-nitroso-di-n-butylamine	U	U	U	U	U
1,2,4,5-tetrachlorobenzene	U	U	U	U	U
1-chloronaphthalene	U	U	U	U	U
pentachlorobenzene	U	U	U	U	U
1-naphthylamine	U	U	U	U	U
2,3,4,6-tetrachlorophenol	U	U	U	U	U
2-naphthylamine	U	U	U	U	U
phenacetin	U	U	U	U	U
4-aminobiphenyl	U	U	U	U	U
pronamide (propyzamide)	U	U	U	U	U
pentachloronitrobenzene	U	U	U	U	U
benzidine	U	U	U	U	U
p-dimethylaminoazobenzene	U	U	U	U	U
7,12-dimethbenz(a)anthracene	U	U	U	U	U
3-methylchloranthrene	U	U	U	U	U
chlordane	U	U	U	U	U
toxaphene	U	U	U	T	U
PCB-1016	U	P	U	U	U
PCB-1221	U	P	U	U	U
PCB-1232	U	P	U	U	U
PCB-1242	U	P	U	U	U
PCB-1248	U	P	U	U	U
PCB-1254	U	P	U	U	U
PCB-1260	U	P	U	U	U

YM
MB
9/22

9613424.0694

TARGET ANALYTE SUMMARY REPORT

000008

EPA METHOD 8270, 3rd ED.

Sponsor WESTINGHOUSE HANFORD CO.

Results ug/kg

Field No.	Z08	Z09	ZR0	ZR1	Method Blank
DataChem EK No.	4372	4373	4374	4375	
COMPOUND					
N-nitroso-dimethylamine	U	U	U	U	U
phenol	U	U	U	U	U
bis(2-chloroethyl)ether	U	U	U	U	U
2-chlorophenol	U	U	U	U	U
1,3-dichlorobenzene	U	U	U	U	U
1,4-dichlorobenzene	U	U	U	U	U
benzyl alcohol	U	U	U	U	U
1,2-dichlorobenzene	U	U	U	U	U
2-methylphenol	U	U	U	U	U
bis(2-chloroisopropyl)ether	U	U	U	U	U
4-methylphenol	U	U	U	U	U
N-nitroso-di-n-propylamine	U	U	U	U	U
hexachloroethane	U	U	U	U	U
nitrobenzene	U	U	U	U	U
isophorone	U	U	U	U	U
2-nitrophenol	U	U	U	U	U
2,4-dimethylphenol	U	U	U	U	U
bis(2-chloroethoxy)methane	U	U	U	U	U
benzoic acid	U	U	U	U	U
2,4-dichlorophenol	U	U	U	U	U
1,2,4-trichlorobenzene	U	U	U	U	U
naphthalene	1200.J	6700.	2200.J	690.J	U
4-chloroaniline	U	U	U	U	U
hexachlorobutadiene	U	U	U	U	U
4-chloro-3-methylphenol	U	U	U	U	U
2-methylnaphthalene	U	1800.J	U	U	U
hexachlorocyclopentadiene	U	U	U	U	U
2,4,6-trichlorophenol	U	U	U	U	U
2,4,5-trichlorophenol	U	U	U	U	U
2-chloronaphthalene	U	U	U	U	U
2-nitroaniline	U	U	U	U	U
dimethyl phthalate	U	U	U	U	U
2,6-dinitrotoluene	U	U	U	U	U
acenaphthylene	U	280.J	U	U	U
3-nitroaniline	U	U	U	U	U
acenaphthene	990.J	5900.	2900.J	U	U
2,4-dinitrophenol	U	U	U	U	U
4-nitrophenol	U	U	U	U	U
dibenzofuran	U	4100.	1800.J	U	U

RLB 3/22/93

9613424.0695

TARGET ANALYTE SUMMARY REPORT

000009

EPA METHOD 8270, 3rd ED.

Sponsor WESTINGHOUSE HANFORD CO.

Results ug/Kg

Field No.	Z08	Z09	ZR0	ZR1	Method Blank
DataChem EK No.	4372	4373	4374	4375	
COMPOUND					
2,4-dinitrotoluene	U	U	U	U	U
diethyl phthalate	U	U	U	1.1E4	U
4-chlorophenyl-phenylether	U	U	U	U	U
fluorene	1200.J	6400.	2300.J	U	U
4-nitroaniline	U	U	U	U	U
2-methyl-4,6-dinitrophenol	U	U	U	U	U
N-nitroso-diphenylamine	U	U	U	U	U
1,2-diphenylhydrazine	U	U	U	U	U
4-bromophenyl-phenylether	U	U	U	U	U
alpha-BHC	U	U	U	U	U
beta-BHC	U	U	U	U	U
hexachlorobenzene	U	U	U	U	U
pentachlorophenol	U	U	U	U	U
gamma-BHC	U	U	U	U	U
phenanthrene	7800.	5.1E4	3.1E4	2100.J	U
anthracene	740.J	8700.	4100.	400.J	U
delta-BHC	U	U	U	U	U
heptachlor	U	U	U	U	U
di-n-butyl phthalate	U	U	U	U	U
aldrin	U	U	U	U	U
heptachlor epoxide	U	U	U	U	U
fluoranthene	8700.	5.5E4	3.2E4	2100.J	U
pyrene	7000.	4.7E4	2.9E4	1800.J	U
endosulfan I	U	U	U	U	U
4,4'DDE	U	U	U	U	U
dieldrin	U	U	U	U	U
endrin aldehyde	U	U	U	U	U
endrin	U	U	U	U	U
4,4'DDD	U	U	U	U	U
endosulfan II	U	U	U	U	U
butylbenzylphthalate	U	U	U	U	U
4,4'DDT	U	U	U	U	U
endosulfan sulfate	U	U	U	U	U
p,p'-methoxychlor	U	U	U	U	U
3,3'-dichlorobenzidine	U	U	U	U	U
benzo(a)anthracene	4100.J	2.3E4	1.2E4	830.J	U
bis(2-ethylhexyl)phthalate	U	U	U	380.J	U
chrysene	3900.J	2.7E4	1.6E4	1900.J	U
di-n-octylphthalate	U	U	U	U	U

DATA CHEM LABORATORIES

ANALYTICAL REQUEST FORM

000139

1. ☑ REGULAR Status

☐ RUSH Status Requested - ADDITIONAL CHARGE

RESULTS REQUIRED BY _____ DATE

CONTACT DATACHEM LABS PRIOR TO SENDING SAMPLES.

2. Date 9-13-91 Purchase Order No. _____

3. Company Name Westinghouse Hanford Co.

Address P.O. Box 1970

Richland, WA

Person to Contact Mike Stankovich

Telephone (509) 376-2493

Fax Telephone ( ) _____

Billing Address (if different from above)

_____

_____

4. Sample Collection

Sampling Site _____

Industrial Process _____

Date of Collection 9-11-91

Time Collected _____

Date of Shipment 9-12-91

Chain of Custody No. _____

5. REQUEST FOR ANALYSES

Laboratory Use Only	Client Sample Number	Media Type*	Sample Volume (Liters)	ANALYSES REQUESTED - Use Method Number if Known			
EK 4368	B00 ZQ4	Soil		Volatiles (8240); Semi-Vols (8270); PCB's (8080)			
4369	ZQ5						
4370	ZQ6						
4371	ZQ7						
4372	ZQ8						
4373	ZQ9						
4374	ZR0						
4375	ZR1						
4376	ZR2						
4377	ZR3						
4378	ZR4						
4379	ZR5						

*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 _____

Possible Contamination and/or Chemical Hazards _____

7. Requested by _____

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

9613424.0696

TARGET ANALYTE SUMMARY REPORT

EPA METHOD 8270, 3rd ED.

Sponsor WESTINGHOUSE HANFORD CO.

	Results ug/Kg				
Field No.	Z08	Z09	ZR0	ZR1	Method Blank
DataChem EK No.	4372	4373	4374	4375	
COMPOUND					
benzo(b)fluoranthene	3500.J	1.9E4	1.1E4	640.J	U
benzo(k)fluoranthene	3500.J	1.8E4	1.0E4	880.J	U
benzo(a)pyrene	2400.J	1.9E4	1.0E4	770.J	U
indeno(1,2,3-cd)pyrene	U	1.4E4	7500.	U	U
dibenzo(a,h)anthracene	U	4800.	2600.J	U	U
benzo(g,h,i)perylene	U	1.7E4	9100.	U	U
endrin ketone	U	U	U	U	U
2-picoline	U	U	U	U	U
ethyl methanesulfonate	U	U	U	U	U
methyl methanesulfonate	U	U	U	U	U
aniline	U	U	U	U	U
acetophenone	U	U	U	U	U
N-nitroso-piperidine	U	U	U	U	U
a,a-dimethylphenethylamine	U	U	U	U	U
2,6-dichlorophenol	U	U	U	U	U
N-nitroso-di-n-butylamine	U	U	U	U	U
1,2,4,5-tetrachlorobenzene	U	U	U	U	U
1-chloronaphthalene	U	U	U	U	U
pentachlorobenzene	U	U	U	U	U
1-naphthylamine	U	U	U	U	U
2,3,4,6-tetrachlorophenol	U	U	U	U	U
2-naphthylamine	U	U	U	U	U
phenacetin	U	U	U	U	U
4-aminobiphenyl	U	U	U	U	U
pronamide (propyzamide)	U	U	U	U	U
pentachloronitrobenzene	U	U	U	U	U
benzidine	U	U	U	U	U
p-dimethylaminoazobenzene	U	U	U	U	U
7,12-dimethbenz(a)anthracene	U	U	U	U	U
3-methylchloranthrene	U	U	U	U	U
chlordane	U R	U	U R	U	U
toxaphene	U R	T	U R	T	U
PCB-1016	P	U	U	P	U
PCB-1221	P	U	U	P	U
PCB-1232	P	U	U	P	U
PCB-1242	P	U	U	P	U
PCB-1248	P	U	U	P	U
PCB-1254	P	U	U	P	U
PCB-1260	P	U	U	P	U

N/A

RB 3/22/93

R's - no current calib. data (within 12h of run)

TARGET ANALYTE SUMMARY REPORT

EPA METHOD 8270, 3rd ED.

Sponsor WESTINGHOUSE HANFORD CO.

Results ug/kg

Field No.	ZR2	ZR3	ZR4	ZR5	Method Blank
DataChem EK No.	4376	4377	4378	4379	
COMPOUND					
N-nitroso-dimethylamine	U	U	U	U	U
phenol	U	U	U	U	U
bis(2-chloroethyl)ether	U	U	U	U	U
2-chlorophenol	U	U	U	U	U
1,3-dichlorobenzene	U	U	U	U	U
1,4-dichlorobenzene	U	U	U	U	U
benzyl alcohol	U	U	U	U	U
1,2-dichlorobenzene	U	U	U	U	U
2-methylphenol	U	U	U	U	U
bis(2-chloroisopropyl)ether	U	U	U	U	U
4-methylphenol	U	U	U	U	U
N-nitroso-di-n-propylamine	U	U	U	U	U
hexachloroethane	U	U	U	U	U
nitrobenzene	U	U	U	U	U
isophorone	U	U	U	U	U
2-nitrophenol	U	U	U	U	U
2,4-dimethylphenol	U	U	U	U	U
bis(2-chloroethoxy)methane	U	U	U	U	U
benzoic acid	U	U	U	U	U
2,4-dichlorophenol	U	U	U	U	U
1,2,4-trichlorobenzene	U	U	U	U	U
naphthalene	U	U	U	24.J	U
4-chloroaniline	U	U	U	U	U
hexachlorobutadiene	U	U	U	U	U
4-chloro-3-methylphenol	U	U	U	U	U
2-methylnaphthalene	U	U	U	U	U
hexachlorocyclopentadiene	U	U	U	U	U
2,4,6-trichlorophenol	U	U	U	U	U
2,4,5-trichlorophenol	U	U	U	U	U
2-chloronaphthalene	U	U	U	U	U
2-nitroaniline	U	U	U	U	U
dimethyl phthalate	U	U	U	U	U
2,6-dinitrotoluene	U	U	U	U	U
acenaphthylene	U	U	U	20.J	U
3-nitroaniline	U	U	U	U	U
acenaphthene	U	U	U	U	U
2,4-dinitrophenol	U	U	U	U	U
4-nitrophenol	U	U	U	U	U
dibenzofuran	U	U	U	U	U

TARGET ANALYTE SUMMARY REPORT

EPA METHOD 8270, 3rd ED.

Sponsor WESTINGHOUSE HANFORD CO.

Results ug/Kg

Field No.	ZR2	ZR3	ZR4	ZR5	Method Blank
DataChem EK No.	4376	4377	4378	4379	
COMPOUND					
2,4-dinitrotoluene	U	U	U	U	U
diethyl phthalate	U	U	U	170.J	U
4-chlorophenyl-phenylether	U	U	U	U	U
fluorene	U	U	U	U	U
4-nitroaniline	U	U	U	U	U
2-methyl-4,6-dinitrophenol	U	U	U	U	U
N-nitroso-diphenylamine	U	U	U	U	U
1,2-diphenylhydrazine	U	U	U	U	U
4-bromophenyl-phenylether	U	U	U	U	U
.alpha.-BHC	U	U	U	U	U
beta-BHC	U	U	U	U	U
hexachlorobenzene	U	U	U	U	U
pentachlorophenol	U	U	4000.J	5100.	U
.gamma.-BHC	U	U	U	U	U
phenanthrene	1700.J	1300.J	1000.J	480.	U
anthracene	U	U	U	17.J	U
delta-BHC	U	U	U	U	U
heptachlor	U	U	U	U	U
di-n-butyl phthalate	U	U	U	20.J	U
aldrin	U	U	U	U	U
heptachlor epoxide	U	U	U	U	U
fluoranthene	1300.J	1300.J	900.J	470.	U
pyrene	1000.J	1000.J	710.J	400.	U
endosulfan I	U	U	U	U	U
4,4'DDE	U	U	U	U	U
dieldrin	U	U	U	U	U
endrin aldehyde	U	U	U	U	U
endrin	U	U	U	U	U
4,4'DDD	U	U	U	U	U
endosulfan II	U	U	U	U	U
butylbenzylphthalate	U	U	U	U	U
4,4'DDT	U	U	U	U	U
endosulfan sulfate	U	U	U	U	U
p,p'-methoxychlor	U	U	U	U	U
3,3'-dichlorobenzidine	U	U	U	U	U
benzo(a)anthracene	U	310.J	U	81.J	U
bis(2-ethylhexyl)phthalate	480.J	280.J	U	U	U
chrysene	720.J	860.J	1200.J	300.J	U
di-n-octylphthalate	U	U	U	U	U

BB 3/22/93

9613424.0699

TARGET ANALYTE SUMMARY REPORT

000013

EPA METHOD 8270, 3rd ED.

Sponsor WESTINGHOUSE HANFORD CO.

Results µg/Kg

Field No.	ZR2	ZR3	ZR4	ZR5	Method Blank
DataChem EK No.	4376	4377	4378	4379	
COMPOUND					
benzo(b)fluoranthene	310.J	310.J	U	160.J	U
benzo(k)fluoranthene	510.J	400.J	U	170.J	U
benzo(a)pyrene	U	300.J	U	86.J	U
indeno(1,2,3-cd)pyrene	U	U	U	U	U
dibenzo(a,h)anthracene	U	U	U	U	U
benzo(g,h,i)perylene	U	U	U	U	U
endrin ketone	U	U	U	U	U
2-picoline	U	U	U	U	U
ethyl methanesulfonate	U	U	U	U	U
methyl methanesulfonate	U	U	U	U	U
aniline	U	U	U	U	U
acetophenone	U	U	U	U	U
N-nitroso-piperidine	U	U	U	U	U
a,a-dimethylphenethylamine	U	U	U	U	U
2,6-dichlorophenol	U	U	U	U	U
N-nitroso-di-n-butylamine	U	U	U	U	U
1,2,4,5-tetrachlorobenzene	U	U	U	U	U
1-chloronaphthalene	U	U	U	U	U
pentachlorobenzene	U	U	U	U	U
1-naphthylamine	U	U	U	U	U
2,3,4,6-tetrachlorophenol	U	U	U	120.J	U
2-naphthylamine	U	U	U	U	U
phenacetin	U	U	U	U	U
4-aminobiphenyl	U	U	U	U	U
pronamide (propyzamide)	U	U	U	U	U
pentachloronitrobenzene	U	U	U	U	U
benzidine	U	U	U	U	U
p-dimethylaminoazobenzene	U	U	U	U	U
7,12-dimethbenz(a)anthracene	U	U	U	U	U
3-methylchloranthrene	U	U	U	U	U
chlordane	U	~~U~~ R	~~1.5E4~~ R	~~2.5E4~~ R	U
toxaphene	U	~~U~~ R	~~U~~ R	~~J~~ R	U
PCB-1016	P	P	U	U	U
PCB-1221	P	P	U	U	U
PCB-1232	P	P	U	U	U
PCB-1242	P	P	U	U	U
PCB-1248	P	P	U	U	U
PCB-1254	P	P	U	U	U
PCB-1260	P	P	U	U	U

N/R
RB
3/22/93

R - no current cobb run

TARGET ANALYTE SUMMARY REPORT

EPA METHOD 8270, 3rd ED.

Sponsor WESTINGHOUSE HANFORD CO.

Results ug/kg

Field No.	ZR6	ZR7	ZR8	ZR9	Method Blank
DataChem EK No.	4380	4381	4382	4383	
COMPOUND					
N-nitroso-dimethylamine	U	U	U	U	U
phenol	U	U	U	U	U
bis(2-chloroethyl)ether	U	U	U	U	U
2-chlorophenol	U	U	U	U	U
1,3-dichlorobenzene	U	U	U	U	U
1,4-dichlorobenzene	U	U	U	U	U
benzyl alcohol	U	U	U	U	U
1,2-dichlorobenzene	U	U	U	U	U
2-methylphenol	U	U	U	U	U
bis(2-chloroisopropyl)ether	U	U	U	U	U
4-methylphenol	U	U	U	U	U
N-nitroso-di-n-propylamine	U	U	U	U	U
hexachloroethane	U	U	U	U	U
nitrobenzene	U	U	U	U	U
isophorone	U	U	U	U	U
2-nitrophenol	U	U	U	U	U
2,4-dimethylphenol	U	U	U	U	U
bis(2-chloroethoxy)methane	U	U	U	U	U
benzoic acid	U	91.J	U	U	U
2,4-dichlorophenol	U	U	U	U	U
1,2,4-trichlorobenzene	1.1E5	U	U	U	U
naphthalene	U	U	U	U	U
4-chloroaniline	U	U	U	U	U
hexachlorobutadiene	U	U	U	U	U
4-chloro-3-methylphenol	U	U	U	U	U
2-methylnaphthalene	U	U	U	U	U
hexachlorocyclopentadiene	U	U	U	U	U
2,4,6-trichlorophenol	U	U	U	U	U
2,4,5-trichlorophenol	U	U	U	U	U
2-chloronaphthalene	U	U	U	U	U
2-nitroaniline	U	U	U	U	U
dimethyl phthalate	U	U	U	U	U
2,6-dinitrotoluene	U	U	U	U	U
acenaphthylene	U	U	U	U	U
3-nitroaniline	U	U	U	U	U
acenaphthene	U	U	U	U	U
2,4-dinitrophenol	U	U	U	U	U
4-nitrophenol	U	U	U	U	U
dibenzofuran	U	U	U	U	U

TARGET ANALYTE SUMMARY REPORT

EPA METHOD 8270, 3rd ED.

Sponsor WESTINGHOUSE HANFORD CO.

Results ug/Kg

Field No.	ZR6	ZR7	ZR8	ZR9	Method Blank
DataChem EK No.	4380	4381	4382	4383	
COMPOUND					
2,4-dinitrotoluene	U	U	U	U	U
diethyl phthalate	U	U	U	U	U
4-chlorophenyl-phenylether	U	U	U	U	U
fluorene	U	U	U	U	U
4-nitroaniline	U	U	U	U	U
2-methyl-4,6-dinitrophenol	U	U	U	U	U
N-nitroso-diphenylamine	U	U	U	U	U
1,2-diphenylhydrazine	U	U	U	U	U
4-bromophenyl-phenylether	U	U	U	U	U
.alpha.-BHC	U	U	U	U	U
beta-BHC	U	U	U	U	U
hexachlorobenzene	U	U	U	U	U
pentachlorophenol	U	U	U	U	U
.gamma.-BHC	U	U	U	U	U
phenanthrene	U	44.J	56.J	U	U
anthracene	U	U	U	U	U
delta-BHC	U	U	U	U	U
heptachlor	U	U	U	U	U
di-n-butyl phthalate	U	U	62.J	U	U
aldrin	U	U	U	U	U
heptachlor epoxide	U	U	U	U	U
fluoranthene	U	U	74.J	U	U
pyrene	U	U	66.J	U	U
endosulfan I	U	U	U	U	U
4,4'DDE	U	U	U	U	U
dieldrin	U	U	U	U	U
endrin aldehyde	U	U	U	U	U
endrin	U	U	U	U	U
4,4'DDD	U	U	U	U	U
endosulfan II	U	U	U	U	U
butylbenzylphthalate	U	U	U	U	U
4,4'DDT	U	U	U	U	U
endosulfan sulfate	U	U	U	U	U
p,p'-methoxychlor	U	U	U	U	U
3,3'-dichlorobenzidine	U	U	U	U	U
benzo(a)anthracene	U	29.J	U	U	U
bis(2-ethylhexyl)phthalate	U	U	U	U	U
chrysene	U	58.J	37.J	U	U
di-n-octylphthalate	U	U	U	U	U

TARGET ANALYTE SUMMARY REPORT

EPA METHOD 8270, 3rd ED.

Sponsor WESTINGHOUSE HANFORD CO.

	Results ug/Kg				
Field No.	ZR6	ZR7	ZR8	ZR9	Method Blank
DataChem EK No.	4380	4381	4382	4383	
COMPOUND					
benzo(b)fluoranthene	U	34.J	U	U	U
benzo(k)fluoranthene	U	48.J	U	U	U
benzo(a)pyrene	U	U	U	U	U
indeno(1,2,3-cd)pyrene	U	U	U	U	U
dibenzo(a,h)anthracene	U	U	U	U	U
benzo(g,h,i)perylene	U	U	U	U	U
endrin ketone	U	U	U	U	U
2-picoline	U	U	U	U	U
ethyl methanesulfonate	U	U	U	U	U
methyl methanesulfonate	U	U	U	U	U
aniline	U	U	U	U	U
acetophenone	U	U	U	U	U
N-nitroso-piperidine	U	U	U	U	U
a,a-dimethylphenethylamine	U	U	U	U	U
2,6-dichlorophenol	U	U	U	U	U
N-nitroso-di-n-butylamine	U	U	U	U	U
1,2,4,5-tetrachlorobenzene	5.4E4J	U	U	U	U
1-chloronaphthalene	U	U	U	U	U
pentachlorobenzene	2.3E5	U	U	U	U
1-naphthylamine	U	U	U	U	U
2,3,4,6-tetrachlorophenol	U	U	U	U	U
2-naphthylamine	U	U	U	U	U
phenacetin	U	U	U	U	U
4-aminobiphenyl	U	U	U	U	U
pronamide (propyzamide)	U	U	U	U	U
pentachloronitrobenzene	U	U	U	U	U
benzidine	U	U	U	U	U
p-dimethylaminoazobenzene	U	U	U	U	U
7,12-dimethbenz(a)anthracene	U	U	U	U	U
3-methylchloranthrene	U	U	U	U	U
chlordane	U	~~1.2E5~~ R	6100.J	~~U~~ R	U
toxaphene	T	~~X~~ R	U	~~U~~ R	U
PCB-1016	P	P	U	U	U
PCB-1221	P	P	U	U	U
PCB-1232	P	P	U	U	U
PCB-1242	P	P	U	U	U
PCB-1248	P	P	U	U	U
PCB-1254	P	P	U	U	U
PCB-1260	P	P	U	U	U

NA
RB
3/22/92

RB
3/22

R - No current calib. data (within 24h of run)

9613424.0703

TARGET ANALYTE SUMMARY REPORT

000017

EPA METHOD 8270, 3rd ED.

Sponsor WESTINGHOUSE HANFORD CO.

Results ug/kg

Field No.	ZS0	ZS1	ZS2	ZS3	Method Blank
DataChem EK No.	4384	4385	4386	4387	
COMPOUND					
N-nitroso-dimethylamine	U	U	U	U	U
phenol	U	U	U	U	U
bis(2-chloroethyl)ether	U	U	U	U	U
2-chlorophenol	U	U	U	U	U
1,3-dichlorobenzene	U	U	U	U	U
1,4-dichlorobenzene	U	U	U	U	U
benzyl alcohol	U	U	U	U	U
1,2-dichlorobenzene	U	U	U	U	U
2-methylphenol	U	U	U	U	U
bis(2-chloroisopropyl)ether	U	U	U	U	U
4-methylphenol	U	U	U	U	U
N-nitroso-di-n-propylamine	U	U	U	U	U
hexachloroethane	U	U	U	U	U
nitrobenzene	U	U	U	U	U
isophorone	U	U	U	U	U
2-nitrophenol	U	U	U	U	U
2,4-dimethylphenol	U	U	U	U	U
bis(2-chloroethoxy)methane	U	U	U	U	U
benzoic acid	U	U	U	U	U
2,4-dichlorophenol	U	U	U	U	U
1,2,4-trichlorobenzene	U	U	U	U	U
naphthalene	370.J	U	U	750.	U
4-chloroaniline	U	U	U	U	U
hexachlorobutadiene	U	U	U	U	U
4-chloro-3-methylphenol	U	U	U	U	U
2-methylnaphthalene	U	U	U	200.J	U
hexachlorocyclopentadiene	U	U	U	U	U
2,4,6-trichlorophenol	U	U	U	U	U
2,4,5-trichlorophenol	U	U	U	U	U
2-chloronaphthalene	U	U	U	U	U
2-nitroaniline	U	U	U	U	U
dimethyl phthalate	U	U	U	U	U
2,6-dinitrotoluene	U	U	U	U	U
acenaphthylene	U	U	U	30.J	U
3-nitroaniline	U	U	U	U	U
acenaphthene	U	U	U	390.	U
2,4-dinitrophenol	U	U	U	U	U
4-nitrophenol	U	U	U	U	U
dibenzofuran	U	U	U	280.J	U

RB 3/22/93

9613424.0704

TARGET ANALYTE SUMMARY REPORT

000018

EPA METHOD 8270, 3rd ED.

Sponsor WESTINGHOUSE HANFORD CO.

Results ug/Kg

Field No.	ZS0	ZS1	ZS2	ZS3	Method Blank
DataChem EK No.	4384	4385	4386	4387	
COMPOUND					
2,4-dinitrotoluene	U	U	U	U	U
diethyl phthalate	U	U	U	U	U
4-chlorophenyl-phenylether	U	U	U	U	U
fluorene	U	U	U	410.J	U
4-nitroaniline	U	U	U	U	U
2-methyl-4,6-dinitrophenol	U	U	U	U	U
N-nitroso-diphenylamine	U	U	U	U	U
1,2-diphenylhydrazine	U	U	U	U	U
4-bromophenyl-phenylether	U	U	U	U	U
.alpha.-BHC	U	U	U	U	U
beta-BHC	U	U	U	U	U
hexachlorobenzene	U	U	U	U	U
pentachlorophenol	U	U	U	U	U
.gamma.-BHC	U	U	U	U	U
phenanthrene	960.J	U	U	3300.	U
anthracene	160.J	U	U	320.J	U
delta-BHC	U	U	U	U	U
heptachlor	U	U	U	U	U
di-n-butyl phthalate	U	U	U	90.J	U
aldrin	U	U	U	U	U
heptachlor epoxide	U	U	U	U	U
fluoranthene	910.J	U	U	3200.	U
pyrene	1000.J	U	U	2400.	U
endosulfan I	U	U	U	U	U
4,4'DDE	U	U	U	U	U
dieldrin	U	U	U	U	U
endrin aldehyde	U	U	U	U	U
endrin	U	U	U	U	U
4,4'DDD	U	U	U	U	U
endosulfan II	U	U	U	U	U
butylbenzylphthalate	U	U	U	1100.	U
4,4'DDT	U	U	U	U	U
endosulfan sulfate	U	U	U	U	U
p,p'-methoxychlor	U	U	U	U	U
3,3'-dichlorobenzidine	U	U	U	U	U
benzo(a)anthracene	490.J	U	U	1500.	U
bis(2-ethylhexyl)phthalate	U	U	U	96.J	U
chrysene	660.J	U	U	1400.	U
di-n-octylphthalate	U	U	U	U	U

TARGET ANALYTE SUMMARY REPORT

EPA METHOD 8270, 3rd ED.

Sponsor WESTINGHOUSE HANFORD CO.

Results ug/Kg

Field No.	ZS0	ZS1	ZS2	ZS3	Method Blank
DataChem EK No.	4384	4385	4386	4387	
COMPOUND					
benzo(b)fluoranthene	340.J	U	U	890.	U
benzo(k)fluoranthene	500.J	U	U	840.	U
benzo(a)pyrene	490.J	U	U	910.	U
indeno(1,2,3-cd)pyrene	U	U	U	680.	U
dibenzo(a,h)anthracene	U	U	U	240.J	U
benzo(g,h,i)perylene	U	U	U	700.	U
endrin ketone	U	U	U	U	U
2-picoline	U	U	U	U	U
ethyl methanesulfonate	U	U	U	U	U
methyl methanesulfonate	U	U	U	U	U
aniline	U	U	U	U	U
acetophenone	U	U	U	U	U
N-nitroso-piperidine	U	U	U	U	U
a,a-dimethylphenethylamine	U	U	U	U	U
2,6-dichlorophenol	U	U	U	U	U
N-nitroso-di-n-butylamine	U	U	U	U	U
1,2,4,5-tetrachlorobenzene	U	U	U	U	U
1-chloronaphthalene	U	U	U	U	U
pentachlorobenzene	U	U	U	U	U
1-naphthylamine	U	U	U	U	U
2,3,4,6-tetrachlorophenol	U	U	U	U	U
2-naphthylamine	U	U	U	U	U
phenacetin	U	U	U	U	U
4-aminobiphenyl	U	U	U	U	U
pronamide (propyzamide)	U	U	U	U	U
pentachloronitrobenzene	U	U	U	U	U
benzidine	U	U	U	U	U
p-dimethylaminoazobenzene	U	U	U	U	U
7,12-dimethbenz(a)anthracene	U	U	U	U	U
3-methylchloranthrene	U	U	U	U	U
chlordane	~~U~~ R	~~U~~ R	~~U~~ R	U	U
toxaphene	~~U~~ R	~~U~~ R	~~U~~ R	U	U
PCB-1016	P	U	U	P	U
PCB-1221	P	U	U	P	U
PCB-1232	P	U	U	P	U
PCB-1242	P	U	U	P	U
PCB-1248	P	U	U	P	U
PCB-1254	P	U	U	P	U
PCB-1260	P	U	U	P	U

RB 3/24/93

RB 3/22/93

R - No current calib. data

9613424.0706

TARGET ANALYTE SUMMARY REPORT

000020

EPA METHOD 8270, 3rd ED.

Sponsor WESTINGHOUSE HANFORD CO.

Results ug/kg

Field No.	ZS4	ZS5	ZS7	ZS8	Method Blank
DataChem EK No.	4388	4389	4390	4391	
COMPOUND					
N-nitroso-dimethylamine	U	U	U	U	U
phenol	U	U	U	U	U
bis(2-chloroethyl)ether	U	U	U	U	U
2-chlorophenol	U	U	U	U	U
1,3-dichlorobenzene	U	U	U	U	U
1,4-dichlorobenzene	U	U	U	U	U
benzyl alcohol	U	U	U	U	U
1,2-dichlorobenzene	U	U	U	U	U
2-methylphenol	U	U	U	U	U
bis(2-chloroisopropyl)ether	U	U	U	U	U
4-methylphenol	U	U	U	U	U
N-nitroso-di-n-propylamine	U	U	U	U	U
hexachloroethane	U	U	U	U	U
nitrobenzene	U	U	U	U	U
isophorone	U	U	U	U	U
2-nitrophenol	U	U	U	U	U
2,4-dimethylphenol	U	U	U	U	U
bis(2-chloroethoxy)methane	U	U	U	U	U
benzoic acid	U	U	U	U	U
2,4-dichlorophenol	U	U	U	U	U
1,2,4-trichlorobenzene	U	U	U	U	U
naphthalene	U	U	U	U	U
4-chloroaniline	U	U	U	U	U
hexachlorobutadiene	U	U	U	U	U
4-chloro-3-methylphenol	U	U	U	U	U
2-methylnaphthalene	U	U	U	U	U
hexachlorocyclopentadiene	U	U	U	U	U
2,4,6-trichlorophenol	U	U	U	U	U
2,4,5-trichlorophenol	U	U	U	U	U
2-chloronaphthalene	U	U	U	U	U
2-nitroaniline	U	U	U	U	U
dimethyl phthalate	U	U	U	U	U
2,6-dinitrotoluene	U	U	U	U	U
acenaphthylene	U	U	U	U	U
3-nitroaniline	U	U	U	U	U
acenaphthene	U	27.J	U	U	U
2,4-dinitrophenol	U	U	U	U	U
4-nitrophenol	U	U	U	U	U
dibenzofuran	U	U	U	U	U

NB 3/22/93

TARGET ANALYTE SUMMARY REPORT

EPA METHOD 8270, 3rd ED.

Sponsor WESTINGHOUSE HANFORD CO.

Results ug/Kg

Field No.	ZS4	ZS5	ZS7	ZS8	Method Blank
DataChem EK No.	4388	4389	4390	4391	
COMPOUND					
2,4-dinitrotoluene	U	U	U	U	U
diethyl phthalate	U	U	U	U	U
4-chlorophenyl-phenylether	U	U	U	U	U
fluorene	U	U	U	U	U
4-nitroaniline	U	U	U	U	U
2-methyl-4,6-dinitrophenol	U	U	U	U	U
N-nitroso-diphenylamine	U	U	U	U	U
1,2-diphenylhydrazine	U	U	U	U	U
4-bromophenyl-phenylether	U	U	U	U	U
.alpha.-BHC	U	U	U	U	U
beta-BHC	U	U	U	U	U
hexachlorobenzene	U	U	U	U	U
pentachlorophenol	U	U	U	U	U
.gamma.-BHC	U	U	U	U	U
phenanthrene	89.J	360.	U	U	U
anthracene	83.J	35.J	U	U	U
delta-BHC	U	U	U	U	U
heptachlor	U	U	U	U	U
di-n-butyl phthalate	U	U	120.J	U	U
aldrin	U	U	U	U	U
heptachlor epoxide	U	U	U	U	U
fluoranthene	190.J	1100.	U	U	U
pyrene	180.J	840.	U	U	U
endosulfan I	U	U	U	U	U
4,4'DDE	U	U	U	U	U
dieldrin	U	U	U	U	U
endrin aldehyde	U	U	U	U	U
endrin	U	U	U	U	U
4,4'DDD	U	U	U	U	U
endosulfan II	U	U	U	U	U
butylbenzylphthalate	U	U	810.	U	U
4,4'DDT	U	U	U	U	U
endosulfan sulfate	U	U	U	U	U
p,p'-methoxychlor	U	U	U	U	U
3,3'-dichlorobenzidine	U	U	U	U	U
benzo(a)anthracene	U	95.J	U	U	U
bis(2-ethylhexyl)phthalate	U	U	29.J	U	U
chrysene	160.J	660.	U	U	U
di-n-octylphthalate	U	U	U	U	U

TARGET ANALYTE SUMMARY REPORT

EPA METHOD 8270, 3rd ED.

Sponsor WESTINGHOUSE HANFORD CO.

Results ug/Kg

Field No.	ZS4	ZS5	ZS7	ZS8	Method Blank
DataChem EK No.	4388	4389	4390	4391	
COMPOUND					
benzo(b)fluoranthene	U	290.J	U	U	U
benzo(k)fluoranthene	U	320.J	U	U	U
benzo(a)pyrene	U	72.J	U	U	U
indeno(1,2,3-cd)pyrene	U	91.J	U	U	U
dibenzo(a,h)anthracene	U	U	U	U	U
benzo(g,h,i)perylene	U	92.J	U	U	U
endrin ketone	U	U	U	U	U
2-picoline	U	U	U	U	U
ethyl methanesulfonate	U	U	U	U	U
methyl methanesulfonate	U	U	U	U	U
aniline	U	U	U	U	U
acetophenone	U	U	U	U	U
N-nitroso-piperidine	U	U	U	U	U
a,a-dimethylphenethylamine	U	U	U	U	U
2,6-dichlorophenol	U	U	U	U	U
N-nitroso-di-n-butylamine	U	U	U	U	U
1,2,4,5-tetrachlorobenzene	U	U	U	U	U
1-chloronaphthalene	U	U	U	U	U
pentachlorobenzene	U	U	U	U	U
1-naphthylamine	U	U	U	U	U
2,3,4,6-tetrachlorophenol	U	U	U	U	U
2-naphthylamine	U	U	U	U	U
phenacetin	U	U	U	U	U
4-aminobiphenyl	U	U	U	U	U
pronamide (propyzamide)	U	U	U	U	U
pentachloronitrobenzene	U	U	U	U	U
benzidine	U	U	U	U	U
p-dimethylaminoazobenzene	U	U	U	U	U
7,12-dimethbenz(a)anthracene	U	U	U	U	U
3-methylchloranthrene	U	U	U	U	U
chlordane	UR	UR	UR	UR	UR
toxaphene	UR	UR	UR	UR	UR
PCB-1016	U	U	U	U	U
PCB-1221	U	U	U	U	U
PCB-1232	U	U	U	U	U
PCB-1242	U	U	U	U	U
PCB-1248	U	U	U	U	U
PCB-1254	U	U	U	U	U
PCB-1260	U	U	U	U	U

LB 3/22/93

LB 3/22/93

R - no current calib. data provided

TARGET ANALYTE SUMMARY REPORT

EPA METHOD 8270, 3rd ED.

Sponsor WESTINGHOUSE HANFORD CO.

Results ug/kg

Field No.	ZR2MS	ZR3MSD	ZS3MS	ZS3MSD	Method Blank
DataChem EK No.	4392	4393	4394	4395	
COMPOUND					
N-nitroso-dimethylamine	U	U	U	U	U
phenol	1900.S	1700.S	2800.S	2500.S	U
bis(2-chloroethyl)ether	U	U	U	U	U
2-chlorophenol	2900.S	2500.S	3800.S	3600.S	U
1,3-dichlorobenzene	U	U	U	U	U
1,4-dichlorobenzene	2200.S	2500.S	3200.S	3000.S	U
benzyl alcohol	U	U	U	U	U
1,2-dichlorobenzene	U	U	U	U	U
2-methylphenol	U	U	U	U	U
bis(2-chloroisopropyl)ether	U	U	U	U	U
4-methylphenol	U	U	U	U	U
N-nitroso-di-n-propylamine	1800.S	1900.S	1200.S	960.S	U
hexachloroethane	U	U	U	U	U
nitrobenzene	U	U	U	U	U
isophorone	U	U	U	U	U
2-nitrophenol	U	U	U	U	U
2,4-dimethylphenol	U	U	U	U	U
bis(2-chloroethoxy)methane	U	U	U	U	U
benzoic acid	U	U	U	U	U
2,4-dichlorophenol	U	U	U	U	U
1,2,4-trichlorobenzene	3300.S	3400.S	3400.S	3200.S	U
naphthalene	U	U	U	82.J	U
4-chloroaniline	U	U	U	U	U
hexachlorobutadiene	U	U	U	U	U
4-chloro-3-methylphenol	4300.S	4300.S	4500.S	4400.S	U
2-methylnaphthalene	U	U	U	U	U
hexachlorocyclopentadiene	U	U	U	U	U
2,4,6-trichlorophenol	U	U	U	U	U
2,4,5-trichlorophenol	U	U	U	U	U
2-chloronaphthalene	U	U	U	U	U
2-nitroaniline	U	U	U	U	U
dimethyl phthalate	U	U	U	U	U
2,6-dinitrotoluene	U	U	U	U	U
acenaphthylene	U	U	U	U	U
3-nitroaniline	U	U	U	U	U
acenaphthene	4100.S	4200.S	4000.S	4100.S	U
2,4-dinitrophenol	U	U	U	U	U
4-nitrophenol	U	U	U	1000.S	U
dibenzofuran	U	U	U	34.J	U

TARGET ANALYTE SUMMARY REPORT

EPA METHOD 8270, 3rd ED.

Sponsor WESTINGHOUSE HANFORD CO.

Results ug/Kg

Field No.	ZR2MS	ZR2MSD	ZS3MS	ZS3MSD	Method Blank
DataChem EK No.	4392	4393	4394	4395	
COMPOUND					
2,4-dinitrotoluene	1600.S	3400.S	2300.S	2100.S	U
diethyl phthalate	U	U	U	U	U
4-chlorophenyl-phenylether	U	U	U	U	U
fluorene	U	U	U	110.J	U
4-nitroaniline	U	U	U	U	U
2-methyl-4,6-dinitrophenol	U	U	U	U	U
N-nitroso-diphenylamine	U	U	U	U	U
1,2-diphenylhydrazine	U	U	U	U	U
4-bromophenyl-phenylether	U	U	U	U	U
.alpha.-BHC	U	U	U	U	U
beta-BHC	U	U	U	U	U
hexachlorobenzene	U	U	U	U	U
pentachlorophenol	6400.S	6800.S	3500.S	3000.S	U
.gamma.-BHC	U	U	U	U	U
phenanthrene	800.J	830.J	790.J	1700.J	U
anthracene	U	U	U	340.J	U
delta-BHC	U	U	U	U	U
heptachlor	U	U	U	U	U
di-n-butyl phthalate	U	U	160.J	120.J	U
aldrin	U	U	U	U	U
heptachlor epoxide	U	U	U	U	U
fluoranthene	1100.J	640.J	1100.J	2100.J	U
pyrene	5000.S	4800.S	6100.S	6400.S	U
endosulfan I	U	U	U	U	U
4,4'DDE	U	U	U	U	U
dieldrin	U	U	U	U	U
endrin aldehyde	U	U	U	U	U
endrin	U	U	U	U	U
4,4'DDD	U	U	U	U	U
endosulfan II	U	U	U	U	U
butylbenzylphthalate	U	U	610.J	440.J	U
4,4'DDT	U	U	U	U	U
endosulfan sulfate	U	U	U	U	U
p,p'-methoxychlor	U	U	U	U	U
3,3'-dichlorobenzidine	U	U	U	U	U
benzo(a)anthracene	U	U	450.J	830.J	U
bis(2-ethylhexyl)phthalate	670.J	650.J	U	92.J	U
chrysene	620.J	680.J	690.J	1100.J	U
di-n-octylphthalate	U	U	U	U	U

TARGET ANALYTE SUMMARY REPORT

EPA METHOD 8270, 3rd ED.

Sponsor WESTINGHOUSE HANFORD CO.

Results ug/Kg

Field No.	ZR2MS	ZR2MSD	ZS3MS	ZS3MSD	Method Blank
DataChem EK No.	4392	4393	4394	4395	
COMPOUND					
benzo(b)fluoranthene	U	U	360.J	490.J	U
benzo(k)fluoranthene	U	U	640.J	930.J	U
benzo(a)pyrene	U	U	490.J	750.J	U
indeno(1,2,3-cd)pyrene	U	U	U	310.J	U
dibenzo(a,h)anthracene	U	U	U	U	U
benzo(g,h,i)perylene	U	U	U	320.J	U
endrin ketone	U	U	U	U	U
2-picoline	U	U	U	U	U
ethyl methanesulfonate	U	U	U	U	U
methyl methanesulfonate	U	U	U	U	U
aniline	U	U	U	U	U
acetophenone	U	U	U	U	U
N-nitroso-piperidine	U	U	U	U	U
a,a-dimethylphenethylamine	U	U	U	U	U
2,6-dichlorophenol	U	U	U	U	U
N-nitroso-di-n-butylamine	U	U	U	U	U
1,2,4,5-tetrachlorobenzene	U	U	U	U	U
1-chloronaphthalene	U	U	U	U	U
pentachlorobenzene	U	U	U	U	U
1-naphthylamine	U	U	U	U	U
2,3,4,6-tetrachlorophenol	U	U	U	U	U
2-naphthylamine	U	U	U	U	U
phenacetin	U	U	U	U	U
4-aminobiphenyl	U	U	U	U	U
pronamide (propyzamide)	U	U	U	U	U
pentachloronitrobenzene	U	U	U	U	U
benzidine	U	U	U	U	U
p-dimethylaminoazobenzene	U	U	U	U	U
7,12-dimethbenz(a)anthracene	U	U	U	U	U
3-methylchloranthrene	U	U	U	U	U
chlordane	U	U	U	U	U
toxaphene	U	U	U	U	U
PCB-1016	U	U	U	U	U
PCB-1221	U	U	U	U	U
PCB-1232	U	U	U	U	U
PCB-1242	U	U	U	U	U
PCB-1248	U	U	U	U	U
PCB-1254	U	U	U	U	U
PCB-1260	U	U	U	U	U

BB 3/22/93

U/R

9613424.0712

Sample Number
BOOZQ4

VOLATILE ORGANICS ANALYSIS DATA SHEET

(Page 1)

Laboratory Name: DATACHEM LABS
Case No: 0719
Lab Sample ID No: EK4368
QC Report No:
Sample Matrix: SOIL
Contract No: 3534C
Data Release Authorized By:
Date Sample Received: 09/13/91

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared:
Date Analyzed: 09/18/91
Conc/Dil Factor: 1. pH
Percent Moisture: (Not Decanted) 0.0

CAS Number		UG/KG		CAS Number		UG/KG	
74-87-3	Chloromethane	3	U	10061-01-5	cis-1,3-Dichloropropene	2	U
74-83-9	Bromomethane	2	U	79-01-6	Trichloroethene	1	U
75-01-4	Vinyl Chloride	3	U	124-48-1	Dibromochloromethane	1	U
75-00-3	Chloroethane	3	U	79-00-5	1,1,2-Trichloroethane	2	U
75-09-2	Methylene Chloride	3	U	71-43-2	Benzene	1	U
67-64-1	Acetone	16		10061-02-6	Trans-1,3-Dichloroproene	2	U
75-15-0	Carbon Disulfide	2	U	110-75-8	2-Chloroethylvinylether	2	U
75-69-4	Trichlorofluoromethane	2	U	75-25-2	Bromoform	1	U
75-35-4	1,1-Dichloroethene	2	U	74-95-3	Dibromomethane	0.8	U
75-35-3	1,1-Dichloroethane	2	U	764-41-0	Trans-1,4-dichloro-2-butene	1	U
540-59-0	1,2-Dichloroethene (total)	2	U	108-10-1	4-Methyl-2-Pentanone	2	U
67-66-3	Chloroform	2	U	96-18-4	1,2,3-Trichloropropane	1	U
107-06-2	1,2-Dichloroethane	1	U	591-78-6	2-Hexanone	2	U
74-88-4	Iodomethane	2	U	127-18-4	Tetrachloroethene	1	U
107-02-8	Acrolein	2	U	79-34-5	1,1,2,2-Tetrachloroethane	1	U
107-13-1	Acrylonitrile	2	U	97-63-2	Ethyl methacrylate	1	U
78-93-3	2-Butanone	2	U	108-88-3	Toluene	1	U
71-55-6	1,1,1-Trichloroethane	1	U	108-90-7	Chlorobenzene	1	U
56-23-5	Carbon Tetrachloride	1	U	100-41-4	Ethylbenzene	1	U
108-05-4	Vinyl Acetate	3	U	100-42-5	Styrene	2	U
75-27-4	Bromodichloromethane	1	U	1330-20-7	Total Xylenes	0.9	U
78-87-5	1,2-Dichloropropane	1	U				

< - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

PBD 5/12/93

PBD 3/19/93

9613424.0713

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BOOZQ4

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: 0719 SAS No.: _____ SDG No.: EK4368

Matrix: (soil/water) SOIL Lab Sample ID: EK4368

Sample wt/vol: _____ (g/mL) G Lab File ID: KU09EK4368

Level: (low/med) LOW Date Received: 09/13/91

% Moisture: not dec. 0 Date Analyzed: 09/18/91

Column (pack/cap) PACK Dilution Factor: 1

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

9613424.0714

Sample Number
BOOZQ5

VOLATILE ORGANICS ANALYSIS DATA SHEET

(Page 1)

Laboratory Name: DATACHEM LABS
Case No: 0719
Lab Sample ID No: EK4369
QC Report No:
Sample Matrix: SOIL
Contract No: 3534C
Data Release Authorized By:
Date Sample Received: 09/13/91

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared:
Date Analyzed: 09/19/91
Conc/Dil Factor: 1. pH
Percent Moisture: (Not Decanted) 1.0

CAS Number		UG/KG		CAS Number		UG/KG	
74-87-3	Chloromethane	3	U	10061-01-5	cis-1,3-Dichloropropene	2	U
74-83-9	Bromomethane	2	U	79-01-6	Trichloroethene	1	U
75-01-4	Vinyl Chloride	3	U	124-48-1	Dibromochloromethane	1	U
75-00-3	Chloroethane	3	U	79-00-5	1,1,2-Trichloroethane	2	U
75-09-2	Methylene Chloride	3	U	71-43-2	Benzene	1	U
67-64-1	Acetone	20	U	10061-02-6	Trans-1,3-Dichloroproene	2	U
75-15-0	Carbon Disulfide	2	U	110-75-8	2-Chloroethylvinylether	2	U
75-69-4	Trichlorofluoromethane	2	U	75-25-2	Bromoform	1	U
75-35-4	1,1-Dichloroethene	2	U	74-95-3	Dibromomethane	0.8	U
75-35-3	1,1-Dichloroethane	2	U	764-41-0	Trans-1,4-dichloro-2-butene	1	U
540-59-0	1,2-Dichloroethene (total)	2	U	108-10-1	4-Methyl-2-Pentanone	3	U
67-66-3	Chloroform	2	U	96-18-4	1,2,3-Trichloropropane	1	U
107-06-2	1,2-Dichloroethane	1	U	591-78-6	2-Hexanone	2	U
74-88-4	Iodomethane	2	U	127-18-4	Tetrachloroethene	1	U
107-02-8	Acrolein	2	U	79-34-5	1,1,2,2-Tetrachloroethane	1	U
107-13-1	Acrylonitrile	2	U	97-63-2	Ethyl methacrylate	1	U
78-93-3	2-Butanone	2	U	108-88-3	Toluene	1	U
71-55-6	1,1,1-Trichloroethane	1	U	108-90-7	Chlorobenzene	1	U
56-23-5	Carbon Tetrachloride	1	U	100-41-4	Ethylbenzene	1	U
108-05-4	Vinyl Acetate	3	U	100-42-5	Styrene	2	U
75-27-4	Bromodichloromethane	1	U	1330-20-7	Total Xylenes	0.9	U
78-87-5	1,2-Dichloropropane	1	U				

< - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

PBD 5/12/93

PBD 3/19/93

9613424.0715

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BOOZQ5

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: 0719 SAS No.: _____ SDG No.: EK4368

Matrix: (soil/water) SOIL Lab Sample ID: EK4369

Sample wt/vol: _____ (g/mL) G Lab File ID: KU10EK4369

Level: (low/med) LOW Date Received: 09/13/91

% Moisture: not dec. 1 Date Analyzed: 09/19/91

Column (pack/cap) PACK Dilution Factor: 1

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

31

9613424.0716

Sample Number
BOOZQ6

VOLATILE ORGANICS ANALYSIS DATA SHEET
(Page 1)

Laboratory Name: DATACHEM LABS
Lab Sample ID No: EK4370
Sample Matrix: SOIL
Data Release Authorized By: _____

Case No: 0719
QC Report No: _____
Contract No: 3534C
Date Sample Received: 09/13/91

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: _____
Date Analyzed: 09/20/91
Conc/Dil Factor: 1. pH _____
Percent Moisture: (Not Decanted) 1.0

CAS Number		UG/KG	CAS Number		UG/KG
74-87-3	Chloromethane	3 U	10061-01-5	cis-1,3-Dichloropropene	2 U
74-83-9	Bromomethane	2 U	79-01-6	Trichloroethene	1 U
75-01-4	Vinyl Chloride	3 U	124-48-1	Dibromochloromethane	1 U
75-00-3	Chloroethane	3 U	79-00-5	1,1,2-Trichloroethane	2 U
75-09-2	Methylene Chloride	3 U	71-43-2	Benzene	1 U
67-64-1	Acetone	3 BU	10061-02-6	Trans-1,3-Dichloroproene	2 U
75-15-0	Carbon Disulfide	2 U	110-75-8	2-Chloroethylvinylether	2 U
75-69-4	Trichlorofluoromethane	2 U	75-25-2	Bromoform	1 U
75-35-4	1,1-Dichloroethene	2 U	74-95-3	Dibromomethane	0.8U
75-35-3	1,1-Dichloroethane	2 U	764-41-0	Trans-1,4-dichloro-2-butene	1 U
540-59-0	1,2-Dichloroethene (total)	2 U	108-10-1	4-Methyl-2-Pentanone	3 U
67-66-3	Chloroform	2 U	96-18-4	1,2,3-Trichloropropane	1 U
107-06-2	1,2-Dichloroethane	1 U	591-78-6	2-Hexanone	2 U
74-88-4	Iodomethane	2 U	127-18-4	Tetrachloroethene	1 U
107-02-8	Acrolein	2 U	79-34-5	1,1,2,2-Tetrachloroethane	1 U
107-13-1	Acrylonitrile	2 U	97-63-2	Ethyl methacrylate	1 U
78-93-3	2-Butanone	2 U	108-88-3	Toluene	1 U
71-55-6	1,1,1-Trichloroethane	1 U	108-90-7	Chlorobenzene	1 U
56-23-5	Carbon Tetrachloride	1 U	100-41-4	Ethylbenzene	1 U
108-05-4	Vinyl Acetate	3 U	100-42-5	Styrene	2 U
75-27-4	Bromodichloromethane	1 U	1330-20-7	Total Xylenes	0.9U
78-87-5	1,2-Dichloropropane	1 U			

B - Compound was detected in the QC blank.
< - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

PBD 5/12/93

PBD 3/19/93

9613424.0717

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BOOZQ6

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: 0719 SAS No.: _____ SDG No.: EK4368

Matrix: (soil/water) SOIL Lab Sample ID: EK4370

Sample wt/vol: _____ (g/mL) G Lab File ID: KU35EK4370

Level: (low/med) LOW Date Received: 09/13/91

% Moisture: not dec. 1 Date Analyzed: 09/20/91

Column (pack/cap) PACK Dilution Factor: 1

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

9613424.0718

Sample Number
B00ZQ7

VOLATILE ORGANICS ANALYSIS DATA SHEET
(Page 1)

Laboratory Name: DATACHEM LABS
Lab Sample ID No: EK4371
Sample Matrix: SOIL
Data Release Authorized By:

Case No: 0719
QC Report No:
Contract No: 3534C
Date Sample Received: 09/13/91

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared:
Date Analyzed: 09/20/91
Conc/Dil Factor: 1. pH
Percent Moisture: (Not Decanted) 1.0

CAS Number		UG/KG		CAS Number		UG/KG	
74-87-3	Chloromethane	3	U	10061-01-5	cis-1,3-Dichloropropene	2	U
74-83-9	Bromomethane	2	U	79-01-6	Trichloroethene	1	U
75-01-4	Vinyl Chloride	3	U	124-48-1	Dibromochloromethane	1	U
75-00-3	Chloroethane	3	U	79-00-5	1,1,2-Trichloroethane	2	U
75-09-2	Methylene Chloride	3	U	71-43-2	Benzene	1	U
67-64-1	Acetone	11	BU	10061-02-6	Trans-1,3-Dichloropropene	2	U
75-15-0	Carbon Disulfide	2	U	110-75-8	2-Chloroethylvinylether	2	U
75-69-4	Trichlorofluoromethane	2	U	75-25-2	Bromoform	1	U
75-35-4	1,1-Dichloroethene	2	U	74-95-3	Dibromomethane	0.8	U
75-35-3	1,1-Dichloroethane	2	U	764-41-0	Trans-1,4-dichloro-2-butene	1	U
540-59-0	1,2-Dichloroethene (total)	2	U	108-10-1	4-Methyl-2-Pentanone	3	U
67-66-3	Chloroform	2	U	96-18-4	1,2,3-Trichloropropane	1	U
107-06-2	1,2-Dichloroethane	1	U	591-78-6	2-Hexanone	2	U
74-88-4	Iodomethane	2	U	127-18-4	Tetrachloroethene	1	U
107-02-8	Acrolein	2	U	79-34-5	1,1,2,2-Tetrachloroethane	1	U
107-13-1	Acrylonitrile	2	U	97-63-2	Ethyl methacrylate	1	U
78-93-3	2-Butanone	2	U	108-88-3	Toluene	1	U
71-55-6	1,1,1-Trichloroethane	1	U	108-90-7	Chlorobenzene	1	U
56-23-5	Carbon Tetrachloride	1	U	100-41-4	Ethylbenzene	1	U
108-05-4	Vinyl Acetate	3	U	100-42-5	Styrene	2	U
75-27-4	Bromodichloromethane	1	U	1330-20-7	Total Xylenes	0.9	U
78-87-5	1,2-Dichloropropane	1	U				

B - Compound was detected in the QC blank.
< - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

3/19/93

5/12/93

9613424.0719

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BOOZQ7

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: 0719 SAS No.: _____ SDG No.: EK4368

Matrix: (soil/water) SOIL Lab Sample ID: EK4371

Sample wt/vol: _____ (g/mL) G Lab File ID: KU36EK4371

Level: (low/med) LOW Date Received: 09/13/91

% Moisture: not dec. 1 Date Analyzed: 09/20/91

Column (pack/cap) PACK Dilution Factor: 1

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

9613424.0720

Sample Number
BOOZQ8

VOLATILE ORGANICS ANALYSIS DATA SHEET
(Page 1)

Laboratory Name: DATACHEM LABS
Case No: 0719
Lab Sample ID No: EK4372
QC Report No:
Sample Matrix: SOIL
Contract No: 3534C
Data Release Authorized By:
Date Sample Received: 09/13/91

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared:
Date Analyzed: 09/20/91
Conc/Dil Factor: 1. pH
Percent Moisture: (Not Decanted) 1.0

CAS Number		UG/KG		CAS Number		UG/KG	
74-87-3	Chloromethane	3	U	10061-01-5	cis-1,3-Dichloropropene	2	U
74-83-9	Bromomethane	2	U	79-01-6	Trichloroethene	1	U
75-01-4	Vinyl Chloride	3	U	124-48-1	Dibromochloromethane	1	U
75-00-3	Chloroethane	3	U	79-00-5	1,1,2-Trichloroethane	2	U
75-09-2	Methylene Chloride	3	U	71-43-2	Benzene	1	U
67-64-1	Acetone	37	BU	10061-02-6	Trans-1,3-Dichloroproene	2	U
75-15-0	Carbon Disulfide	2	U	110-75-8	2-Chloroethylvinylether	2	U
75-69-4	Trichlorofluoromethane	2	U	75-25-2	Bromoform	1	U
75-35-4	1,1-Dichloroethene	2	U	74-95-3	Dibromomethane	0.8	U
75-35-3	1,1-Dichloroethane	2	U	764-41-0	Trans-1,4-dichloro-2-butene	1	U
540-59-0	1,2-Dichloroethene (total)	2	U	108-10-1	4-Methyl-2-Pentanone	3	U
67-66-3	Chloroform	2	U	96-18-4	1,2,3-Trichloropropane	1	U
107-06-2	1,2-Dichloroethane	1	U	591-78-6	2-Hexanone	2	U
74-88-4	Iodomethane	2	U	127-18-4	Tetrachloroethene	1	U
107-02-8	Acrolein	2	U	79-34-5	1,1,2,2-Tetrachloroethane	1	U
107-13-1	Acrylonitrile	2	U	97-63-2	Ethyl methacrylate	1	U
78-93-3	2-Butanone	2	U	108-88-3	Toluene	1	J
71-55-6	1,1,1-Trichloroethane	1	U	108-90-7	Chlorobenzene	1	U
56-23-5	Carbon Tetrachloride	1	U	100-41-4	Ethylbenzene	1	U
108-05-4	Vinyl Acetate	3	U	100-42-5	Styrene	2	U
75-27-4	Bromodichloromethane	1	U	1330-20-7	Total Xylenes	0.9	U
78-87-5	1,2-Dichloropropane	1	U				

B - Compound was detected in the QC blank.
= - Reported value is less than the detection limit.
< - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

PRD 3/19/93

PRD 5/12/93

9613424.0721

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BOOZQ8

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: 0719 SAS No.: _____ SDG No.: EK4368

Matrix: (soil/water) SOIL Lab Sample ID: EK4372

Sample wt/vol: _____ (g/mL) G Lab File ID: KU37EK4372

Level: (low/med) LOW Date Received: 09/13/91

% Moisture: not dec. 1 Date Analyzed: 09/20/91

Column (pack/cap) PACK Dilution Factor: 1

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

9613424.0722

Sample Number
BOOZQ9

VOLATILE ORGANICS ANALYSIS DATA SHEET

(Page 1)

Laboratory Name: DATACHEM LABS
Case No: 0719
Lab Sample ID No: EK4373
QC Report No:
Sample Matrix: SOIL
Contract No: 3534C
Data Release Authorized By:
Date Sample Received: 09/13/91

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared:
Date Analyzed: 09/20/91
Conc/Dil Factor: 1. pH
Percent Moisture: (Not Decanted) 1.0

CAS Number		UG/KG		CAS Number		UG/KG	
74-87-3	Chloromethane	3	U	10061-01-5	cis-1,3-Dichloropropene	2	U
74-83-9	Bromomethane	2	U	79-01-6	Trichloroethene	1	U
75-01-4	Vinyl Chloride	3	U	124-48-1	Dibromochloromethane	1	U
75-00-3	Chloroethane	3	U	79-00-5	1,1,2-Trichloroethane	2	U
75-09-2	Methylene Chloride	3	U	71-43-2	Benzene	1	U
67-64-1	Acetone	13	BU	10061-02-6	Trans-1,3-Dichloroproene	2	U
75-15-0	Carbon Disulfide	2	U	110-75-8	2-Chloroethylvinylether	2	U
75-69-4	Trichlorofluoromethane	2	U	75-25-2	Bromoform	1	U
75-35-4	1,1-Dichloroethene	2	U	74-95-3	Dibromomethane	0.8	U
75-35-3	1,1-Dichloroethane	2	U	764-41-0	Trans-1,4-dichloro-2-butene	1	U
540-59-0	1,2-Dichloroethene (total)	2	U	108-10-1	4-Methyl-2-Pentanone	3	U
67-66-3	Chloroform	2	U	96-18-4	1,2,3-Trichloropropane	1	U
107-06-2	1,2-Dichloroethane	1	U	591-78-6	2-Hexanone	2	U
74-88-4	Iodomethane	2	U	127-18-4	Tetrachloroethene	1	U
107-02-8	Acrolein	2	U	79-34-5	1,1,2,2-Tetrachloroethane	1	U
107-13-1	Acrylonitrile	2	U	97-63-2	Ethyl methacrylate	1	U
78-93-3	2-Butanone	2	U	108-88-3	Toluene	1	U
71-55-6	1,1,1-Trichloroethane	1	U	108-90-7	Chlorobenzene	1	U
56-23-5	Carbon Tetrachloride	1	U	100-41-4	Ethylbenzene	1	U
108-05-4	Vinyl Acetate	3	U	100-42-5	Styrene	2	U
75-27-4	Bromodichloromethane	1	U	1330-20-7	Total Xylenes	0.9	U
78-87-5	1,2-Dichloropropane	1	U				

B - Compound was detected in the QC blank.
< - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

PBD 3/19/93

PBD 3/2/93

9613424.0723

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B00ZQ9

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: 0719 SAS No.: _____ SDG No.: EK4368

Matrix: (soil/water) SOIL Lab Sample ID: EK4373

Sample wt/vol: _____ (g/mL) G Lab File ID: KU38EK4373

Level: (low/med) LOW Date Received: 09/13/91

% Moisture: not dec. 1 Date Analyzed: 09/20/91

Column (pack/cap) PACK Dilution Factor: 1

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

9613424.0724

Sample Number
BOOZR0

VOLATILE ORGANICS ANALYSIS DATA SHEET

(Page 1)

Laboratory Name: DATACHEM LABS
Lab Sample ID No: EK4374
Sample Matrix: SOIL
Data Release Authorized By: _____

Case No: 0719
QC Report No: _____
Contract No: 3534C
Date Sample Received: 09/13/91

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: _____
Date Analyzed: 09/20/91
Conc/Dil Factor: 1. pH _____
Percent Moisture: (Not Decanted) 0.0

CAS Number		UG/KG		CAS Number		UG/KG	
74-87-3	Chloromethane	3	U	10061-01-5	cis-1,3-Dichloropropene	2	U
74-83-9	Bromomethane	2	U	79-01-6	Trichloroethene	1	U
75-01-4	Vinyl Chloride	3	U	124-48-1	Dibromochloromethane	1	U
75-00-3	Chloroethane	3	U	79-00-5	1,1,2-Trichloroethane	2	U
75-09-2	Methylene Chloride	3	U	71-43-2	Benzene	1	U
67-64-1	Acetone	8	~~B~~U	10061-02-6	Trans-1,3-Dichloroproene	2	U
75-15-0	Carbon Disulfide	2	U	110-75-8	2-Chloroethylvinylether	2	U
75-69-4	Trichlorofluoromethane	2	U	75-25-2	Bromoform	1	U
75-35-4	1,1-Dichloroethene	2	U	74-95-3	Dibromomethane	0.8	U
75-35-3	1,1-Dichloroethane	2	U	764-41-0	Trans-1,4-dichloro-2-butene	1	U
540-59-0	1,2-Dichloroethene (total)	2	U	108-10-1	4-Methyl-2-Pentanone	2	U
67-66-3	Chloroform	2	U	96-18-4	1,2,3-Trichloropropane	1	U
107-06-2	1,2-Dichloroethane	1	U	591-78-6	2-Hexanone	2	U
74-88-4	Iodomethane	2	U	127-18-4	Tetrachloroethene	1	U
107-02-8	Acrolein	2	U	79-34-5	1,1,2,2-Tetrachloroethane	1	U
107-13-1	Acrylonitrile	2	U	97-63-2	Ethyl methacrylate	1	U
78-93-3	2-Butanone	2	U	108-88-3	Toluene	1	J
71-55-6	1,1,1-Trichloroethane	1	U	108-90-7	Chlorobenzene	1	U
56-23-5	Carbon Tetrachloride	1	U	100-41-4	Ethylbenzene	1	U
108-05-4	Vinyl Acetate	3	U	100-42-5	Styrene	2	U
75-27-4	Bromodichloromethane	1	U	1330-20-7	Total Xylenes	0.9	U
78-87-5	1,2-Dichloropropane	1	U				

B - Compound was detected in the QC blank.
= - Reported value is less than the detection limit.
< - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

BD 3/17/93

BD 5/12/93

9613424.0725

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BOOZR0

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: 0719 SAS No.: _____ SDG No.: EK4368

Matrix: (soil/water) SOIL Lab Sample ID: EK4374

Sample wt/vol: _____ (g/mL) G Lab File ID: KU39EK4374

Level: (low/med) LOW Date Received: 09/13/91

% Moisture: not dec. 0 Date Analyzed: 09/20/91

Column (pack/cap) PACK Dilution Factor: 1

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

9613424.0726

Sample Number
BOOZR1

VOLATILE ORGANICS ANALYSIS DATA SHEET

(Page 1)

Laboratory Name: DATACHEM LABS
Lab Sample ID No: EK4375
Sample Matrix: SOIL
Data Release Authorized By: _____

Case No: 0719
QC Report No: _____
Contract No: 3534C
Date Sample Received: 09/13/91

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: _____
Date Analyzed: 09/19/91
Conc/Dil Factor: 1. pH _____
Percent Moisture: (Not Decanted) 1.0

CAS Number		UG/KG		CAS Number		UG/KG	
74-87-3	Chloromethane	3	U	10061-01-5	cis-1,3-Dichloropropene	2	U
74-83-9	Bromomethane	2	U	79-01-6	Trichloroethene	1	U
75-01-4	Vinyl Chloride	3	U	124-48-1	Dibromochloromethane	1	U
75-00-3	Chloroethane	3	U	79-00-5	1,1,2-Trichloroethane	2	U
75-09-2	Methylene Chloride	3	U	71-43-2	Benzene	1	U
67-64-1	Acetone	11	~~B~~U	10061-02-6	Trans-1,3-Dichloroproene	2	U
75-15-0	Carbon Disulfide	2	U	110-75-8	2-Chloroethylvinylether	2	U
75-69-4	Trichlorofluoromethane	2	U	75-25-2	Bromoform	1	U
75-35-4	1,1-Dichloroethene	2	U	74-95-3	Dibromomethane	0.8	U
75-35-3	1,1-Dichloroethane	2	U	764-41-0	Trans-1,4-dichloro-2-butene	1	U
540-59-0	1,2-Dichloroethene (total)	2	U	108-10-1	4-Methyl-2-Pentanone	3	U
67-66-3	Chloroform	2	U	96-18-4	1,2,3-Trichloropropane	1	U
107-06-2	1,2-Dichloroethane	1	U	591-78-6	2-Hexanone	2	U
74-88-4	Iodomethane	2	U	127-18-4	Tetrachloroethene	1	U
107-02-8	Acrolein	2	U	79-34-5	1,1,2,2-Tetrachloroethane	1	U
107-13-1	Acrylonitrile	2	U	97-63-2	Ethyl methacrylate	1	U
78-93-3	2-Butanone	2	U	108-88-3	Toluene	1	U
71-55-6	1,1,1-Trichloroethane	1	U	108-90-7	Chlorobenzene	1	U
56-23-5	Carbon Tetrachloride	1	U	100-41-4	Ethylbenzene	1	U
108-05-4	Vinyl Acetate	3	U	100-42-5	Styrene	2	U
75-27-4	Bromodichloromethane	1	U	1330-20-7	Total Xylenes	0.9	U
78-87-5	1,2-Dichloropropane	1	U				

B - Compound was detected in the QC blank.
< - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

PBD 3/19/92

PBD 5/12/93

9613424.0727

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BOOZR1

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: 0719 SAS No.: _____ SDG No.: EK4368

Matrix: (soil/water) SOIL Lab Sample ID: EK4375

Sample wt/vol: _____ (g/mL) G Lab File ID: KU14EK4375

Level: (low/med) LOW Date Received: 09/13/91

% Moisture: not dec. 1 Date Analyzed: 09/19/91

Column (pack/cap) PACK Dilution Factor: 1

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.

9613424.0728

Sample Number
BOOZR2

VOLATILE ORGANICS ANALYSIS DATA SHEET

(Page 1)

Laboratory Name: DATACHEM LABS
Lab Sample ID No: EK4376
Sample Matrix: SOIL
Data Release Authorized By: _____

Case No: 0719
QC Report No: _____
Contract No: 3534C
Date Sample Received: 09/13/91

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: _____
Date Analyzed: 09/19/91
Conc/Dil Factor: 1. pH _____
Percent Moisture: (Not Decanted) 1.0

CAS Number		UG/KG	CAS Number		UG/KG
74-87-3	Chloromethane	3 U	10061-01-5	cis-1,3-Dichloropropene	2 U
74-83-9	Bromomethane	2 U	79-01-6	Trichloroethene	1 U
75-01-4	Vinyl Chloride	3 U	124-48-1	Dibromochloromethane	1 U
75-00-3	Chloroethane	3 U	79-00-5	1,1,2-Trichloroethane	2 U
75-09-2	Methylene Chloride	3 U	71-43-2	Benzene	1 U
67-64-1	Acetone	15 ~~B~~ U	10061-02-6	Trans-1,3-Dichloroproene	2 U
75-15-0	Carbon Disulfide	2 U	110-75-8	2-Chloroethylvinylether	2 U
75-69-4	Trichlorofluoromethane	2 U	75-25-2	Bromoform	1 U
75-35-4	1,1-Dichloroethene	2 U	74-95-3	Dibromomethane	0.8U
75-35-3	1,1-Dichloroethane	2 U	764-41-0	Trans-1,4-dichloro-2-butene	1 U
540-59-0	1,2-Dichloroethene (total)	2 U	108-10-1	4-Methyl-2-Pentanone	3 U
67-66-3	Chloroform	2 U	96-18-4	1,2,3-Trichloropropane	1 U
107-06-2	1,2-Dichloroethane	1 U	591-78-6	2-Hexanone	7
74-88-4	Iodomethane	2 U	127-18-4	Tetrachloroethene	1 U
107-02-8	Acrolein	2 U	79-34-5	1,1,2,2-Tetrachloroethane	1 U
107-13-1	Acrylonitrile	2 U	97-63-2	Ethyl methacrylate	1 U
78-93-3	2-Butanone	2 U	108-88-3	Toluene	1 U
71-55-6	1,1,1-Trichloroethane	1 U	108-90-7	Chlorobenzene	1 U
56-23-5	Carbon Tetrachloride	1 U	100-41-4	Ethylbenzene	1 U
108-05-4	Vinyl Acetate	3 U	100-42-5	Styrene	2 U
75-27-4	Bromodichloromethane	1 U	1330-20-7	Total Xylenes	0.9U
78-87-5	1,2-Dichloropropane	1 U			

B - Compound was detected in the QC blank.
< - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

PBD 3/19/93

PBD 3/12/93

9613424.0729

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BOOZR2

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: 0719 SAS No.: _____ SDG No.: EK4368

Matrix: (soil/water) SOIL Lab Sample ID: EK4376

Sample wt/vol: _____ (g/mL) G Lab File ID: KU15EK4376

Level: (low/med) LOW Date Received: 09/13/91

% Moisture: not dec. 1 Date Analyzed: 09/19/91

Column (pack/cap) PACK Dilution Factor: 1

Number TICs found: 1

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 928-68-7	2-HEPTANONE, 6-METHYL	26.91	13	JN

RD 3/19/93

9613424.0730

Sample Number
BOOZR3

VOLATILE ORGANICS ANALYSIS DATA SHEET
(Page 1)

Laboratory Name: DATACHEM LABS
Lab Sample ID No: EK4377
Sample Matrix: SOIL
Data Release Authorized By: _____

Case No: 0719
QC Report No: _____
Contract No: 3534C
Date Sample Received: 09/13/91

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: _____
Date Analyzed: 09/20/91
Conc/Dil Factor: 1. pH _____
Percent Moisture: (Not Decanted) 1.0

CAS Number		UG/KG		CAS Number		UG/KG	
74-87-3	Chloromethane	3	U	10061-01-5	cis-1,3-Dichloropropene	2	U
74-83-9	Bromomethane	2	U	79-01-6	Trichloroethene	1	U
75-01-4	Vinyl Chloride	3	U	124-48-1	Dibromochloromethane	1	U
75-00-3	Chloroethane	3	U	79-00-5	1,1,2-Trichloroethane	2	U
75-09-2	Methylene Chloride	3	U	71-43-2	Benzene	1	U
67-64-1	Acetone	10	~~B~~U	10061-02-6	Trans-1,3-Dichloroproene	2	U
75-15-0	Carbon Disulfide	2	U	110-75-8	2-Chloroethylvinylether	2	U
75-69-4	Trichlorofluoromethane	2	U	75-25-2	Bromoform	1	U
75-35-4	1,1-Dichloroethene	2	U	74-95-3	Dibromomethane	0.8	U
75-35-3	1,1-Dichloroethane	2	U	764-41-0	Trans-1,4-dichloro-2-butene	1	U
540-59-0	1,2-Dichloroethene (total)	2	U	108-10-1	4-Methyl-2-Pentanone	3	U
67-66-3	Chloroform	2	U	96-18-4	1,2,3-Trichloropropane	1	U
107-06-2	1,2-Dichloroethane	1	U	591-78-6	2-Hexanone	2	U
74-88-4	Iodomethane	2	U	127-18-4	Tetrachloroethene	1	U
107-02-8	Acrolein	2	U	79-34-5	1,1,2,2-Tetrachloroethane	1	U
107-13-1	Acrylonitrile	2	U	97-63-2	Ethyl methacrylate	1	U
78-93-3	2-Butanone	2	U	108-88-3	Toluene	0.9	J
71-55-6	1,1,1-Trichloroethane	1	U	108-90-7	Chlorobenzene	1	U
56-23-5	Carbon Tetrachloride	1	U	100-41-4	Ethylbenzene	1	U
108-05-4	Vinyl Acetate	3	U	100-42-5	Styrene	2	U
75-27-4	Bromodichloromethane	1	U	1330-20-7	Total Xylenes	0.9	U
78-87-5	1,2-Dichloropropane	1	U				

B - Compound was detected in the QC blank.
= - Reported value is less than the detection limit.
< - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

PBD 4/19/93

PBD 5/12/93

9613424.0731

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BOOZR3

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: 0719 SAS No.: _____ SDG No.: EK4368

Matrix: (soil/water) SOIL Lab Sample ID: EK4377

Sample wt/vol: _____ (g/mL) G Lab File ID: KU40EK4377

Level: (low/med) LOW Date Received: 09/13/91

% Moisture: not dec. 1 Date Analyzed: 09/20/91

Column (pack/cap) PACK Dilution Factor: 1

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

9613424.0732

Sample Number
BOOZR4

VOLATILE ORGANICS ANALYSIS DATA SHEET
(Page 1)

Laboratory Name: DATACHEM LABS
Case No: 0719
Lab Sample ID No: EK4378
QC Report No:
Sample Matrix: SOIL
Contract No: 3534C
Data Release Authorized By:
Date Sample Received: 09/13/91

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared:
Date Analyzed: 09/19/91
Conc/Dil Factor: 1. pH
Percent Moisture: (Not Decanted) 1.0

CAS Number		UG/KG		CAS Number		UG/KG	
74-87-3	Chloromethane	3	U	10061-01-5	cis-1,3-Dichloropropene	2	U
74-83-9	Bromomethane	2	U	79-01-6	Trichloroethene	1	U
75-01-4	Vinyl Chloride	3	U	124-48-1	Dibromochloromethane	1	U
75-00-3	Chloroethane	3	U	79-00-5	1,1,2-Trichloroethane	2	U
75-09-2	Methylene Chloride	3	U	71-43-2	Benzene	1	U
67-64-1	Acetone	15	~~B~~U	10061-02-6	Trans-1,3-Dichloroproene	2	U
75-15-0	Carbon Disulfide	2	U	110-75-8	2-Chloroethylvinylether	2	U
75-69-4	Trichlorofluoromethane	2	U	75-25-2	Bromoform	1	U
75-35-4	1,1-Dichloroethene	2	U	74-95-3	Dibromomethane	0.8	U
75-35-3	1,1-Dichloroethane	2	U	764-41-0	Trans-1,4-dichloro-2-butene	1	U
540-59-0	1,2-Dichloroethene (total)	2	U	108-10-1	4-Methyl-2-Pentanone	3	U
67-66-3	Chloroform	2	U	96-18-4	1,2,3-Trichloropropane	1	U
107-06-2	1,2-Dichloroethane	1	U	591-78-6	2-Hexanone	2	U
74-88-4	Iodomethane	2	U	127-18-4	Tetrachloroethene	1	U
107-02-8	Acrolein	2	U	79-34-5	1,1,2,2-Tetrachloroethane	1	U
107-13-1	Acrylonitrile	2	U	97-63-2	Ethyl methacrylate	1	U
78-93-3	2-Butanone	2	U	108-88-3	Toluene	1	U
71-55-6	1,1,1-Trichloroethane	1	U	108-90-7	Chlorobenzene	1	U
56-23-5	Carbon Tetrachloride	1	U	100-41-4	Ethylbenzene	1	U
108-05-4	Vinyl Acetate	3	U	100-42-5	Styrene	2	U
75-27-4	Bromodichloromethane	1	U	1330-20-7	Total Xylenes	0.9	U
78-87-5	1,2-Dichloropropane	1	U				

B - Compound was detected in the QC blank.
< - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

PBD 3/19/93

PBD 5/12/93

9613424.0733

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BOOZR4

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: 0719 SAS No.: _____ SDG No.: EK4368

Matrix: (soil/water) SOIL Lab Sample ID: EK4378

Sample wt/vol: _____ (g/mL) G Lab File ID: KU17EK4378

Level: (low/med) LOW Date Received: 09/13/91

% Moisture: not dec. 1 Date Analyzed: 09/19/91

Column (pack/cap) PACK Dilution Factor: 1

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

9613424.0734

Sample Number
BOOZR5

VOLATILE ORGANICS ANALYSIS DATA SHEET
(Page 1)

Laboratory Name: DATACHEM LABS
Lab Sample ID No: EK4379
Sample Matrix: SOIL
Data Release Authorized By:

Case No: 0719
QC Report No:
Contract No: 3534C
Date Sample Received: 09/13/91

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared:
Date Analyzed: 09/20/91
Conc/Dil Factor: 1. pH
Percent Moisture: (Not Decanted) 1.0

CAS Number		UG/KG		CAS Number		UG/KG	
74-87-3	Chloromethane	3	U	10061-01-5	cis-1,3-Dichloropropene	2	U
74-83-9	Bromomethane	2	U	79-01-6	Trichloroethene	1	U
75-01-4	Vinyl Chloride	3	U	124-48-1	Dibromochloromethane	1	U
75-00-3	Chloroethane	3	U	79-00-5	1,1,2-Trichloroethane	2	U
75-09-2	Methylene Chloride	3	U	71-43-2	Benzene	1	U
67-64-1	Acetone	9	BU	10061-02-6	Trans-1,3-Dichloroproene	2	U
75-15-0	Carbon Disulfide	2	U	110-75-8	2-Chloroethylvinylether	2	U
75-69-4	Trichlorofluoromethane	2	U	75-25-2	Bromoform	1	U
75-35-4	1,1-Dichloroethene	2	U	74-95-3	Dibromomethane	0.8	U
75-35-3	1,1-Dichloroethane	2	U	764-41-0	Trans-1,4-dichloro-2-butene	1	U
540-59-0	1,2-Dichloroethene (total)	2	U	108-10-1	4-Methyl-2-Pentanone	3	U
67-66-3	Chloroform	2	U	96-18-4	1,2,3-Trichloropropane	1	U
107-06-2	1,2-Dichloroethane	1	U	591-78-6	2-Hexanone	2	U
74-88-4	Iodomethane	2	U	127-18-4	Tetrachloroethene	1	U
107-02-8	Acrolein	2	U	79-34-5	1,1,2,2-Tetrachloroethane	1	U
107-13-1	Acrylonitrile	2	U	97-63-2	Ethyl methacrylate	1	U
78-93-3	2-Butanone	2	U	108-88-3	Toluene	1	J
71-55-6	1,1,1-Trichloroethane	1	U	108-90-7	Chlorobenzene	1	U
56-23-5	Carbon Tetrachloride	1	U	100-41-4	Ethylbenzene	1	U
108-05-4	Vinyl Acetate	3	U	100-42-5	Styrene	2	U
75-27-4	Bromodichloromethane	1	U	1330-20-7	Total Xylenes	0.9	U
78-87-5	1,2-Dichloropropane	1	U				

B - Compound was detected in the QC blank.
= - Reported value is less than the detection limit.
< - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

FRD 3/19/93

FRD 5/[illegible]/93

9613424.0735

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BOOZR5

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: 0719 SAS No.: _____ SDG No.: EK4368

Matrix: (soil/water) SOIL Lab Sample ID: EK4379

Sample wt/vol: _____ (g/mL) G Lab File ID: KU41EK4379

Level: (low/med) LOW Date Received: 09/13/91

% Moisture: not dec. 1 Date Analyzed: 09/20/91

Column (pack/cap) PACK Dilution Factor: 1

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

131

9613424.0736

Sample Number
BOOZR6

VOLATILE ORGANICS ANALYSIS DATA SHEET
(Page 1)

Laboratory Name: DATACHEM LABS
Case No: 0719
Lab Sample ID No: EK4380
QC Report No:
Sample Matrix: SOIL
Contract No: 3534C
Data Release Authorized By:
Date Sample Received: 09/13/91

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared:
Date Analyzed: 09/19/91
Conc/Dil Factor: 1. pH
Percent Moisture: (Not Decanted) 0.0

CAS Number		UG/KG		CAS Number		UG/KG	
74-87-3	Chloromethane	3	U	10061-01-5	cis-1,3-Dichloropropene	2	U
74-83-9	Bromomethane	2	U	79-01-6	Trichloroethene	1	U
75-01-4	Vinyl Chloride	3	U	124-48-1	Dibromochloromethane	1	U
75-00-3	Chloroethane	3	U	79-00-5	1,1,2-Trichloroethane	2	U
75-09-2	Methylene Chloride	3	U	71-43-2	Benzene	1	U
67-64-1	Acetone	11	~~B~~ U	10061-02-6	Trans-1,3-Dichloroproene	2	U
75-15-0	Carbon Disulfide	2	U	110-75-8	2-Chloroethylvinylether	2	U
75-69-4	Trichlorofluoromethane	2	U	75-25-2	Bromoform	1	U
75-35-4	1,1-Dichloroethene	2	U	74-95-3	Dibromomethane	0.8	U
75-35-3	1,1-Dichloroethane	2	U	764-41-0	Trans-1,4-dichloro-2-butene	1	U
540-59-0	1,2-Dichloroethene (total)	2	U	108-10-1	4-Methyl-2-Pentanone	2	U
67-66-3	Chloroform	2	U	96-18-4	1,2,3-Trichloropropane	1	U
107-06-2	1,2-Dichloroethane	1	U	591-78-6	2-Hexanone	2	U
74-88-4	Iodomethane	2	U	127-18-4	Tetrachloroethene	1	U
107-02-8	Acrolein	2	U	79-34-5	1,1,2,2-Tetrachloroethane	1	U
107-13-1	Acrylonitrile	2	U	97-63-2	Ethyl methacrylate	1	U
78-93-3	2-Butanone	2	U	108-88-3	Toluene	1	U
71-55-6	1,1,1-Trichloroethane	1	U	108-90-7	Chlorobenzene	1	U
56-23-5	Carbon Tetrachloride	1	U	100-41-4	Ethylbenzene	1	U
108-05-4	Vinyl Acetate	3	U	100-42-5	Styrene	2	U
75-27-4	Bromodichloromethane	1	U	1330-20-7	Total Xylenes	0.9	U
78-87-5	1,2-Dichloropropane	1	U				

B - Compound was detected in the QC blank.
< - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

PSD 3/19/93

PSD 3/12/93

9613424.0737

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BOOZR6

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: 0719 SAS No.: _____ SDG No.: EK4368

Matrix: (soil/water) SOIL Lab Sample ID: EK4380

Sample wt/vol: _____ (g/mL) G Lab File ID: KU19EK4380

Level: (low/med) LOW Date Received: 09/13/91

% Moisture: not dec. 0 Date Analyzed: 09/19/91

Column (pack/cap) PACK Dilution Factor: 1

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

9613424.0738

Sample Number
BOOZR7

VOLATILE ORGANICS ANALYSIS DATA SHEET

(Page 1)

Laboratory Name: DATACHEM LABS
Case No: 0719
Lab Sample ID No: EK4381
QC Report No:
Sample Matrix: SOIL
Contract No: 3534C
Data Release Authorized By:
Date Sample Received: 09/13/91

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared:
Date Analyzed: 09/19/91
Conc/Dil Factor: 1. pH
Percent Moisture: (Not Decanted) 1.0

CAS Number		UG/KG		CAS Number		UG/KG	
74-87-3	Chloromethane	3	U	10061-01-5	cis-1,3-Dichloropropene	2	U
74-83-9	Bromomethane	2	U	79-01-6	Trichloroethene	1	U
75-01-4	Vinyl Chloride	3	U	124-48-1	Dibromochloromethane	1	U
75-00-3	Chloroethane	3	U	79-00-5	1,1,2-Trichloroethane	2	U
75-09-2	Methylene Chloride	3	U	71-43-2	Benzene	1	U
67-64-1	Acetone	30	BU	10061-02-6	Trans-1,3-Dichloroproene	2	U
75-15-0	Carbon Disulfide	2	U	110-75-8	2-Chloroethylvinylether	2	U
75-69-4	Trichlorofluoromethane	2	U	75-25-2	Bromoform	1	U
75-35-4	1,1-Dichloroethene	2	U	74-95-3	Dibromomethane	0.8	U
75-35-3	1,1-Dichloroethane	2	U	764-41-0	Trans-1,4-dichloro-2-butene	1	U
540-59-0	1,2-Dichloroethene (total)	2	U	108-10-1	4-Methyl-2-Pentanone	3	U
67-66-3	Chloroform	2	U	96-18-4	1,2,3-Trichloropropane	1	U
107-06-2	1,2-Dichloroethane	1	U	591-78-6	2-Hexanone	2	U
74-88-4	Iodomethane	2	U	127-18-4	Tetrachloroethene	1	U
107-02-8	Acrolein	2	U	79-34-5	1,1,2,2-Tetrachloroethane	1	U
107-13-1	Acrylonitrile	2	U	97-63-2	Ethyl methacrylate	1	U
78-93-3	2-Butanone	2	U	108-88-3	Toluene	1	U
71-55-6	1,1,1-Trichloroethane	1	U	108-90-7	Chlorobenzene	1	U
56-23-5	Carbon Tetrachloride	1	U	100-41-4	Ethylbenzene	1	U
108-05-4	Vinyl Acetate	3	U	100-42-5	Styrene	2	U
75-27-4	Bromodichloromethane	1	U	1330-20-7	Total Xylenes	0.9	U
78-87-5	1,2-Dichloropropane	1	U				

B - Compound was detected in the QC blank.
< - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

3/19/93

5/12/93

9613424.0739

1E

EPA SAMPLE NO.

BOOZR7

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: 0719 SAS No.: _____ SDG No.: EK4368

Matrix: (soil/water) SOIL Lab Sample ID: EK4381

Sample wt/vol: _____ (g/mL) G Lab File ID: KU20EK4381

Level: (low/med) LOW Date Received: 09/13/91

% Moisture: not dec. 1 Date Analyzed: 09/19/91

Column (pack/cap) PACK Dilution Factor: 1

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

9613424.0740

Sample Number
BOOZR8

VOLATILE ORGANICS ANALYSIS DATA SHEET

(Page 1)

Laboratory Name: DATACHEM LABS
Lab Sample ID No: EK4382
Sample Matrix: SOIL
Data Release Authorized By: _____

Case No: 0719
QC Report No: _____
Contract No: 3534C
Date Sample Received: 09/13/91

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: _____
Date Analyzed: 09/19/91
Conc/Dil Factor: 1. pH _____
Percent Moisture: (Not Decanted) 1.0

CAS Number		UG/KG		CAS Number		UG/KG	
74-87-3	Chloromethane	3	U	10061-01-5	cis-1,3-Dichloropropene	2	U
74-83-9	Bromomethane	2	U	79-01-6	Trichloroethene	1	U
75-01-4	Vinyl Chloride	3	U	124-48-1	Dibromochloromethane	1	U
75-00-3	Chloroethane	3	U	79-00-5	1,1,2-Trichloroethane	2	U
75-09-2	Methylene Chloride	3	U	71-43-2	Benzene	1	U
67-64-1	Acetone	18	~~B~~U	10061-02-6	Trans-1,3-Dichloroproene	2	U
75-15-0	Carbon Disulfide	2	U	110-75-8	2-Chloroethylvinylether	2	U
75-69-4	Trichlorofluoromethane	2	U	75-25-2	Bromoform	1	U
75-35-4	1,1-Dichloroethene	2	U	74-95-3	Dibromomethane	0.8	U
75-35-3	1,1-Dichloroethane	2	U	764-41-0	Trans-1,4-dichloro-2-butene	1	U
540-59-0	1,2-Dichloroethene (total)	2	U	108-10-1	4-Methyl-2-Pentanone	3	U
67-66-3	Chloroform	2	U	96-18-4	1,2,3-Trichloropropane	1	U
107-06-2	1,2-Dichloroethane	1	U	591-78-6	2-Hexanone	2	U
74-88-4	Iodomethane	2	U	127-18-4	Tetrachloroethene	1	U
107-02-8	Acrolein	2	U	79-34-5	1,1,2,2-Tetrachloroethane	1	U
107-13-1	Acrylonitrile	2	U	97-63-2	Ethyl methacrylate	1	U
78-93-3	2-Butanone	2	U	108-88-3	Toluene	1	J
71-55-6	1,1,1-Trichloroethane	1	U	108-90-7	Chlorobenzene	1	U
56-23-5	Carbon Tetrachloride	1	U	100-41-4	Ethylbenzene	1	U
108-05-4	Vinyl Acetate	3	U	100-42-5	Styrene	2	U
75-27-4	Bromodichloromethane	1	U	1330-20-7	Total Xylenes	0.9	U
78-87-5	1,2-Dichloropropane	1	U				

B - Compound was detected in the QC blank.
= - Reported value is less than the detection limit.
< - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

PBD 3/19/93

PBD 5/12/93

9613424.0741

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BOOZR8

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: 0719 SAS No.: _____ SDG No.: EK4368

Matrix: (soil/water) SOIL Lab Sample ID: EK4382

Sample wt/vol: _____ (g/mL) G Lab File ID: KU21EK4382

Level: (low/med) LOW Date Received: 09/13/91

% Moisture: not dec. 1 Date Analyzed: 09/19/91

Column (pack/cap) PACK Dilution Factor: 1

Number TICs found: 1

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	C10 BICYCLIC HYDROCARBON	23.35	6.7	J

9613424.0742

Sample Number
BOOZR9

VOLATILE ORGANICS ANALYSIS DATA SHEET
(Page 1)

Laboratory Name: DATACHEM LABS
Lab Sample ID No: EK4383
Sample Matrix: SOIL
Data Release Authorized By:

Case No: 0719
QC Report No:
Contract No: 3534C
Date Sample Received: 09/13/91

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared:
Date Analyzed: 09/19/91
Conc/Dil Factor: 1. pH
Percent Moisture: (Not Decanted) 1.0

CAS Number		UG/KG		CAS Number		UG/KG	
74-87-3	Chloromethane	3	UJ	10061-01-5	cis-1,3-Dichloropropene	2	UJ
74-83-9	Bromomethane	2	U	79-01-6	Trichloroethene	1	U
75-01-4	Vinyl Chloride	3	U	124-48-1	Dibromochloromethane	1	U
75-00-3	Chloroethane	3	U	79-00-5	1,1,2-Trichloroethane	2	U
75-09-2	Methylene Chloride	3	UJ	71-43-2	Benzene	1	U
67-64-1	Acetone	63	BUJ	10061-02-6	Trans-1,3-Dichloroproene	2	U
75-15-0	Carbon Disulfide	2	UJ	110-75-8	2-Chloroethylvinylether	2	U
75-69-4	Trichlorofluoromethane	2	U	75-25-2	Bromoform	1	U
75-35-4	1,1-Dichloroethene	2	U	74-95-3	Dibromomethane	0.8	U
75-35-3	1,1-Dichloroethane	2	U	764-41-0	Trans-1,4-dichloro-2-butene	1	U
540-59-0	1,2-Dichloroethene (total)	2	U	108-10-1	4-Methyl-2-Pentanone	3	U
67-66-3	Chloroform	2	U	96-18-4	1,2,3-Trichloropropane	1	UJ
107-06-2	1,2-Dichloroethane	1	U	591-78-6	2-Hexanone	9	J
74-88-4	Iodomethane	2	U	127-18-4	Tetrachloroethene	1	UJ
107-02-8	Acrolein	2	U	79-34-5	1,1,2,2-Tetrachloroethane	1	U
107-13-1	Acrylonitrile	2	UJ	97-63-2	Ethyl methacrylate	1	U
78-93-3	2-Butanone	17	J	108-88-3	Toluene	1	U
71-55-6	1,1,1-Trichloroethane	1	UJ	108-90-7	Chlorobenzene	1	U
56-23-5	Carbon Tetrachloride	1	U	100-41-4	Ethylbenzene	1	U
108-05-4	Vinyl Acetate	3	U	100-42-5	Styrene	2	U
75-27-4	Bromodichloromethane	1	U	1330-20-7	Total Xylenes	0.9	UJ
78-87-5	1,2-Dichloropropane	1	UJ				

B - Compound was detected in the QC blank.
< - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

PBD 3/19/93

PBD 3/12/93

9613424.0743

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BOOZR9

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: 0719 SAS No.: _____ SDG No.: EK4368

Matrix: (soil/water) SOIL Lab Sample ID: EK4383

Sample wt/vol: _____ (g/mL) G Lab File ID: KU22EK4383

Level: (low/med) LOW Date Received: 09/13/91

% Moisture: not dec. 1 Date Analyzed: 09/19/91

Column (pack/cap) PACK Dilution Factor: 1

Number TICs found: 1

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 928-68-7	2-HEPTANONE, 6-METHYL	26.86	17	JN

RD
3/19/93

FORM I VOA-TIC 1/87 Rev.

9613424.0744

Sample Number
BOOZS0

VOLATILE ORGANICS ANALYSIS DATA SHEET
(Page 1)

Laboratory Name: DATACHEM LABS
Lab Sample ID No: EK4384
Sample Matrix: SOIL
Data Release Authorized By: _____

Case No: 0719
QC Report No: _____
Contract No: 3534C
Date Sample Received: 09/13/91

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: _____
Date Analyzed: 09/19/91
Conc/Dil Factor: 1. pH _____
Percent Moisture: (Not Decanted) 2.0

CAS Number		UG/KG		CAS Number		UG/KG	
74-87-3	Chloromethane	3	U	10061-01-5	cis-1,3-Dichloropropene	2	UJ
74-83-9	Bromomethane	2	U	79-01-6	Trichloroethene	1	U
75-01-4	Vinyl Chloride	3	U	124-48-1	Dibromochloromethane	1	U
75-00-3	Chloroethane	3	U	79-00-5	1,1,2-Trichloroethane	2	U
75-09-2	Methylene Chloride	3	U	71-43-2	Benzene	1	U
67-64-1	Acetone	31	~~B~~U	10061-02-6	Trans-1,3-Dichloroproene	2	U
75-15-0	Carbon Disulfide	2	U	110-75-8	2-Chloroethylvinylether	2	U
75-69-4	Trichlorofluoromethane	2	U	75-25-2	Bromoform	1	U
75-35-4	1,1-Dichloroethene	2	U	74-95-3	Dibromomethane	0.8	U
75-35-3	1,1-Dichloroethane	2	U	764-41-0	Trans-1,4-dichloro-2-butene	1	U
540-59-0	1,2-Dichloroethene (total)	2	U	108-10-1	4-Methyl-2-Pentanone	3	U
67-66-3	Chloroform	2	U	96-18-4	1,2,3-Trichloropropane	1	U
107-06-2	1,2-Dichloroethane	1	U	591-78-6	2-Hexanone	2	U
74-88-4	Iodomethane	2	U	127-18-4	Tetrachloroethene	1	U
107-02-8	Acrolein	2	U	79-34-5	1,1,2,2-Tetrachloroethane	1	U
107-13-1	Acrylonitrile	2	U	97-63-2	Ethyl methacrylate	1	U
78-93-3	2-Butanone	2	U	108-88-3	Toluene	1	U
71-55-6	1,1,1-Trichloroethane	1	UJ	108-90-7	Chlorobenzene	1	U
56-23-5	Carbon Tetrachloride	1	U	100-41-4	Ethylbenzene	1	U
108-05-4	Vinyl Acetate	3	U	100-42-5	Styrene	2	U
75-27-4	Bromodichloromethane	1	U	1330-20-7	Total Xylenes	0.9	UJ
78-87-5	1,2-Dichloropropane	1	UJ				

B - Compound was detected in the QC blank.
< - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

PBD 3/19/93

PBD 5/12/93

9613424.0745

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B00ZS0

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: 0719 SAS No.: _____ SDG No.: EK4368

Matrix: (soil/water) SOIL Lab Sample ID: EK4384

Sample wt/vol: _____ (g/mL) G Lab File ID: KU23EK4384

Level: (low/med) LOW Date Received: 09/13/91

% Moisture: not dec. 2 Date Analyzed: 09/19/91

Column (pack/cap) PACK Dilution Factor: 1

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

9613424.0746

Sample Number
BOOZS1

VOLATILE ORGANICS ANALYSIS DATA SHEET
(Page 1)

Laboratory Name: DATACHEM LABS
Lab Sample ID No: EK4385
Sample Matrix: SOIL
Data Release Authorized By: _____

Case No: 0719
QC Report No: _____
Contract No: 3534C
Date Sample Received: 09/13/91

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: _____
Date Analyzed: 09/19/91
Conc/Dil Factor: 1. pH _____
Percent Moisture: (Not Decanted) 1.0

CAS Number		UG/KG		CAS Number		UG/KG	
74-87-3	Chloromethane	3	U	10061-01-5	cis-1,3-Dichloropropene	2	U
74-83-9	Bromomethane	2	U	79-01-6	Trichloroethene	1	U
75-01-4	Vinyl Chloride	3	U	124-48-1	Dibromochloromethane	1	U
75-00-3	Chloroethane	3	U	79-00-5	1,1,2-Trichloroethane	2	U
75-09-2	Methylene Chloride	3	U	71-43-2	Benzene	1	U
67-64-1	Acetone	26	~~B~~ U	10061-02-6	Trans-1,3-Dichloroproene	2	U
75-15-0	Carbon Disulfide	2	U	110-75-8	2-Chloroethylvinylether	2	U
75-69-4	Trichlorofluoromethane	2	U	75-25-2	Bromoform	1	U
75-35-4	1,1-Dichloroethene	2	U	74-95-3	Dibromomethane	0.8	U
75-35-3	1,1-Dichloroethane	2	U	764-41-0	Trans-1,4-dichloro-2-butene	1	U
540-59-0	1,2-Dichloroethene (total)	2	U	108-10-1	4-Methyl-2-Pentanone	3	U
67-66-3	Chloroform	2	U	96-18-4	1,2,3-Trichloropropane	1	U
107-06-2	1,2-Dichloroethane	1	U	591-78-6	2-Hexanone	6	
74-88-4	Iodomethane	2	U	127-18-4	Tetrachloroethene	1	U
107-02-8	Acrolein	2	U	79-34-5	1,1,2,2-Tetrachloroethane	1	U
107-13-1	Acrylonitrile	2	U	97-63-2	Ethyl methacrylate	1	U
78-93-3	2-Butanone	13		108-88-3	Toluene	1	U
71-55-6	1,1,1-Trichloroethane	1	U	108-90-7	Chlorobenzene	1	U
56-23-5	Carbon Tetrachloride	1	U	100-41-4	Ethylbenzene	1	U
108-05-4	Vinyl Acetate	3	U	100-42-5	Styrene	2	U
75-27-4	Bromodichloromethane	1	U	1330-20-7	Total Xylenes	0.9	U
78-87-5	1,2-Dichloropropane	1	U				

B - Compound was detected in the QC blank.
< - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

PBD 3/19/93

PBD 5/12/93

9613424.0747

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BOOZS1

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: 0719 SAS No.: _____ SDG No.: EK4368

Matrix: (soil/water) SOIL Lab Sample ID: EK4385

Sample wt/vol: _____ (g/mL) G Lab File ID: KU24EK4385

Level: (low/med) LOW Date Received: 09/13/91

% Moisture: not dec. 1 Date Analyzed: 09/19/91

Column (pack/cap) PACK Dilution Factor: 1

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

9613424.0748

Sample Number
BOOZS2

VOLATILE ORGANICS ANALYSIS DATA SHEET

(Page 1)

Laboratory Name: DATACHEM LABS
Case No: 0719
Lab Sample ID No: EK4386
QC Report No:
Sample Matrix: SOIL
Contract No: 3534C
Data Release Authorized By:
Date Sample Received: 09/13/91

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared:
Date Analyzed: 09/19/91
Conc/Dil Factor: 1. pH
Percent Moisture: (Not Decanted) 1.0

CAS Number		UG/KG		CAS Number		UG/KG	
74-87-3	Chloromethane	3	U	10061-01-5	cis-1,3-Dichloropropene	2	U
74-83-9	Bromomethane	2	U	79-01-6	Trichloroethene	1	U
75-01-4	Vinyl Chloride	3	U	124-48-1	Dibromochloromethane	1	U
75-00-3	Chloroethane	3	U	79-00-5	1,1,2-Trichloroethane	2	U
75-09-2	Methylene Chloride	3	U	71-43-2	Benzene	1	U
67-64-1	Acetone	32	BU	10061-02-6	Trans-1,3-Dichloroproene	2	U
75-15-0	Carbon Disulfide	2	U	110-75-8	2-Chloroethylvinylether	2	U
75-69-4	Trichlorofluoromethane	2	U	75-25-2	Bromoform	1	U
75-35-4	1,1-Dichloroethene	2	U	74-95-3	Dibromomethane	0.8	U
75-35-3	1,1-Dichloroethane	2	U	764-41-0	Trans-1,4-dichloro-2-butene	1	U
540-59-0	1,2-Dichloroethene (total)	2	U	108-10-1	4-Methyl-2-Pentanone	3	U
67-66-3	Chloroform	2	U	96-18-4	1,2,3-Trichloropropane	1	U
107-06-2	1,2-Dichloroethane	1	U	591-78-6	2-Hexanone	11	
74-88-4	Iodomethane	2	U	127-18-4	Tetrachloroethene	1	U
107-02-8	Acrolein	2	U	79-34-5	1,1,2,2-Tetrachloroethane	1	U
107-13-1	Acrylonitrile	2	U	97-63-2	Ethyl methacrylate	1	U
78-93-3	2-Butanone	18		108-88-3	Toluene	1	U
71-55-6	1,1,1-Trichloroethane	1	U	108-90-7	Chlorobenzene	1	U
56-23-5	Carbon Tetrachloride	1	U	100-41-4	Ethylbenzene	1	U
108-05-4	Vinyl Acetate	3	U	100-42-5	Styrene	2	U
75-27-4	Bromodichloromethane	1	U	1330-20-7	Total Xylenes	0.9	U
78-87-5	1,2-Dichloropropane	1	U				

B - Compound was detected in the QC blank.
< - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

PBD 3/19/93

PBD 5/12/93

9613424.0749

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BOOZS2

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: 0719 SAS No.: _____ SDG No.: EK4368

Matrix: (soil/water) SOIL Lab Sample ID: EK4386

Sample wt/vol: _____ (g/mL) G Lab File ID: KU25EK4386

Level: (low/med) LOW Date Received: 09/13/91

% Moisture: not dec. 1 Date Analyzed: 09/19/91

Column (pack/cap) PACK Dilution Factor: 1

Number TICs found: 2

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	C7 KETONE	23.65	12	J
2. 928-68-7	2-HEPTANONE, 6-METHYL-	26.81	39	JN

PBD
3/19/93

9613424.0750

Sample Number
BOOZS3

VOLATILE ORGANICS ANALYSIS DATA SHEET

(Page 1)

Laboratory Name: DATACHEM LABS
Case No: 0719
Lab Sample ID No: EK4387
QC Report No:
Sample Matrix: SOIL
Contract No: 3534C
Data Release Authorized By:
Date Sample Received: 09/13/91

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared:
Date Analyzed: 09/19/91
Conc/Dil Factor: 1. pH
Percent Moisture: (Not Decanted) 1.0

CAS Number		UG/KG		CAS Number		UG/KG	
74-87-3	Chloromethane	3	U	10061-01-5	cis-1,3-Dichloropropene	2	U
74-83-9	Bromomethane	2	U	79-01-6	Trichloroethene	1	U
75-01-4	Vinyl Chloride	3	U	124-48-1	Dibromochloromethane	1	U
75-00-3	Chloroethane	3	U	79-00-5	1,1,2-Trichloroethane	2	U
75-09-2	Methylene Chloride	3	U	71-43-2	Benzene	1	U
67-64-1	Acetone	6	BU	10061-02-6	Trans-1,3-Dichloroproene	2	U
75-15-0	Carbon Disulfide	2	U	110-75-8	2-Chloroethylvinylether	2	U
75-69-4	Trichlorofluoromethane	2	U	75-25-2	Bromoform	1	U
75-35-4	1,1-Dichloroethene	2	U	74-95-3	Dibromomethane	0.8	U
75-35-3	1,1-Dichloroethane	2	U	764-41-0	Trans-1,4-dichloro-2-butene	1	U
540-59-0	1,2-Dichloroethene (total)	2	U	108-10-1	4-Methyl-2-Pentanone	3	U
67-66-3	Chloroform	2	U	96-18-4	1,2,3-Trichloropropane	1	U
107-06-2	1,2-Dichloroethane	1	U	591-78-6	2-Hexanone	2	U
74-88-4	Iodomethane	2	U	127-18-4	Tetrachloroethene	1	U
107-02-8	Acrolein	2	U	79-34-5	1,1,2,2-Tetrachloroethane	1	U
107-13-1	Acrylonitrile	2	U	97-63-2	Ethyl methacrylate	1	U
78-93-3	2-Butanone	2	U	108-88-3	Toluene	1	U
71-55-6	1,1,1-Trichloroethane	1	U	108-90-7	Chlorobenzene	1	U
56-23-5	Carbon Tetrachloride	1	U	100-41-4	Ethylbenzene	1	U
108-05-4	Vinyl Acetate	3	U	100-42-5	Styrene	2	U
75-27-4	Bromodichloromethane	1	U	1330-20-7	Total Xylenes	0.9	U
78-87-5	1,2-Dichloropropane	1	U				

B - Compound was detected in the QC blank.
< - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

PBD 3/19/93

PBD 5/12/93

9613424.0751

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BOOZS3

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: 0719 SAS No.: _____ SDG No.: EK4368

Matrix: (soil/water) SOIL Lab Sample ID: EK4387

Sample wt/vol: _____ (g/mL) G Lab File ID: KU26EK4387

Level: (low/med) LOW Date Received: 09/13/91

% Moisture: not dec. 1 Date Analyzed: 09/19/91

Column (pack/cap) PACK Dilution Factor: 1

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.

9613424.0752

Sample Number
BOOZS4

VOLATILE ORGANICS ANALYSIS DATA SHEET

(Page 1)

Laboratory Name: DATACHEM LABS
Case No: 0719
Lab Sample ID No: EK4388
QC Report No:
Sample Matrix: SOIL
Contract No: 3534C
Data Release Authorized By:
Date Sample Received: 09/13/91

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared:
Date Analyzed: 09/19/91
Conc/Dil Factor: 1. pH
Percent Moisture: (Not Decanted) 0.0

CAS Number		UG/KG		CAS Number		UG/KG	
74-87-3	Chloromethane	3	U	10061-01-5	cis-1,3-Dichloropropene	2	U
74-83-9	Bromomethane	2	U	79-01-6	Trichloroethene	1	U
75-01-4	Vinyl Chloride	3	U	124-48-1	Dibromochloromethane	1	U
75-00-3	Chloroethane	3	U	79-00-5	1,1,2-Trichloroethane	2	U
75-09-2	Methylene Chloride	3	U	71-43-2	Benzene	1	U
67-64-1	Acetone	11	BU	10061-02-6	Trans-1,3-Dichloroproene	2	U
75-15-0	Carbon Disulfide	2	U	110-75-8	2-Chloroethylvinylether	2	U
75-69-4	Trichlorofluoromethane	2	U	75-25-2	Bromoform	1	U
75-35-4	1,1-Dichloroethene	2	U	74-95-3	Dibromomethane	0.8	U
75-35-3	1,1-Dichloroethane	2	U	764-41-0	Trans-1,4-dichloro-2-butene	1	U
540-59-0	1,2-Dichloroethene (total)	2	U	108-10-1	4-Methyl-2-Pentanone	2	U
67-66-3	Chloroform	2	U	96-18-4	1,2,3-Trichloropropane	1	U
107-06-2	1,2-Dichloroethane	1	U	591-78-6	2-Hexanone	2	U
74-88-4	Iodomethane	2	U	127-18-4	Tetrachloroethene	1	U
107-02-8	Acrolein	2	U	79-34-5	1,1,2,2-Tetrachloroethane	1	U
107-13-1	Acrylonitrile	2	U	97-63-2	Ethyl methacrylate	1	U
78-93-3	2-Butanone	10		108-88-3	Toluene	1	U
71-55-6	1,1,1-Trichloroethane	1	U	108-90-7	Chlorobenzene	1	U
56-23-5	Carbon Tetrachloride	1	U	100-41-4	Ethylbenzene	1	U
108-05-4	Vinyl Acetate	3	U	100-42-5	Styrene	2	U
75-27-4	Bromodichloromethane	1	U	1330-20-7	Total Xylenes	0.9	U
78-87-5	1,2-Dichloropropane	1	U				

B - Compound was detected in the QC blank.
< - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

PBD 3/19/93

PBD 5/12/93

9613424.0753

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BOOZS4

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: 0719 SAS No.: _____ SDG No.: EK4368

Matrix: (soil/water) SOIL Lab Sample ID: EK4388

Sample wt/vol: _____ (g/mL) G Lab File ID: KU27EK4388

Level: (low/med) LOW Date Received: 09/13/91

% Moisture: not dec. 0 Date Analyzed: 09/19/91

Column (pack/cap) PACK Dilution Factor: 1

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

9613424.0754

Sample Number
BOOZS5

VOLATILE ORGANICS ANALYSIS DATA SHEET

(Page 1)

Laboratory Name: DATACHEM LABS
Case No: 0719
Lab Sample ID No: EK4389
QC Report No:
Sample Matrix: SOIL
Contract No: 3534C
Data Release Authorized By:
Date Sample Received: 09/13/91

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared:
Date Analyzed: 09/19/91
Conc/Dil Factor: 1. pH
Percent Moisture: (Not Decanted) 0.0

CAS Number		UG/KG	CAS Number		UG/KG
74-87-3	Chloromethane	3 U	10061-01-5	cis-1,3-Dichloropropene	2 U
74-83-9	Bromomethane	2 U	79-01-6	Trichloroethene	1 U
75-01-4	Vinyl Chloride	3 U	124-48-1	Dibromochloromethane	1 U
75-00-3	Chloroethane	3 U	79-00-5	1,1,2-Trichloroethane	2 U
75-09-2	Methylene Chloride	3 U	71-43-2	Benzene	1 U
67-64-1	Acetone	6 ~~B~~ U	10061-02-6	Trans-1,3-Dichloroproene	2 U
75-15-0	Carbon Disulfide	2 U	110-75-8	2-Chloroethylvinylether	2 U
75-69-4	Trichlorofluoromethane	2 U	75-25-2	Bromoform	1 U
75-35-4	1,1-Dichloroethene	2 U	74-95-3	Dibromomethane	0.8U
75-35-3	1,1-Dichloroethane	2 U	764-41-0	Trans-1,4-dichloro-2-butene	1 U
540-59-0	1,2-Dichloroethene (total)	2 U	108-10-1	4-Methyl-2-Pentanone	2 U
67-66-3	Chloroform	2 U	96-18-4	1,2,3-Trichloropropane	1 U
107-06-2	1,2-Dichloroethane	1 U	591-78-6	2-Hexanone	2 U
74-88-4	Iodomethane	2 U	127-18-4	Tetrachloroethene	1 U
107-02-8	Acrolein	2 U	79-34-5	1,1,2,2-Tetrachloroethane	1 U
107-13-1	Acrylonitrile	2 U	97-63-2	Ethyl methacrylate	1 U
78-93-3	2-Butanone	2 U	108-88-3	Toluene	0.9J
71-55-6	1,1,1-Trichloroethane	1 U	108-90-7	Chlorobenzene	1 U
56-23-5	Carbon Tetrachloride	1 U	100-41-4	Ethylbenzene	1 U
108-05-4	Vinyl Acetate	3 U	100-42-5	Styrene	2 U
75-27-4	Bromodichloromethane	1 U	1330-20-7	Total Xylenes	0.9U
78-87-5	1,2-Dichloropropane	1 U			

B - Compound was detected in the QC blank.
= - Reported value is less than the detection limit.
< - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

PBD 3/19/93

PBD 5/12/93

9613424.0755

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BOOZS5

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: 0719 SAS No.: _____ SDG No.: EK4368

Matrix: (soil/water) SOIL Lab Sample ID: EK4389

Sample wt/vol: _____ (g/mL) G Lab File ID: KU28EK4389

Level: (low/med) LOW Date Received: 09/13/91

% Moisture: not dec. 0 Date Analyzed: 09/19/91

Column (pack/cap) PACK Dilution Factor: 1

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

9613424.0756

Sample Number
BOOZS7

VOLATILE ORGANICS ANALYSIS DATA SHEET

(Page 1)

Laboratory Name: DATACHEM LABS
Case No: 0719
Lab Sample ID No: EK4390
QC Report No:
Sample Matrix: SOIL
Contract No: 3534C
Data Release Authorized By:
Date Sample Received: 09/13/91

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared:
Date Analyzed: 09/20/91
Conc/Dil Factor: 1. pH
Percent Moisture: (Not Decanted) 0.0

CAS Number		UG/KG	CAS Number		UG/KG
74-87-3	Chloromethane	3 U	10061-01-5	cis-1,3-Dichloropropene	2 U
74-83-9	Bromomethane	2 U	79-01-6	Trichloroethene	1 U
75-01-4	Vinyl Chloride	3 U	124-48-1	Dibromochloromethane	1 U
75-00-3	Chloroethane	3 U	79-00-5	1,1,2-Trichloroethane	2 U
75-09-2	Methylene Chloride	3 U	71-43-2	Benzene	1 U
67-64-1	Acetone	4 B U	10061-02-6	Trans-1,3-Dichloroproene	2 U
75-15-0	Carbon Disulfide	2 U	110-75-8	2-Chloroethylvinylether	2 U
75-69-4	Trichlorofluoromethane	2 U	75-25-2	Bromoform	1 U
75-35-4	1,1-Dichloroethene	2 U	74-95-3	Dibromomethane	0.8U
75-35-3	1,1-Dichloroethane	2 U	764-41-0	Trans-1,4-dichloro-2-butene	1 U
540-59-0	1,2-Dichloroethene (total)	2 U	108-10-1	4-Methyl-2-Pentanone	2 U
67-66-3	Chloroform	2 U	96-18-4	1,2,3-Trichloropropane	1 U
107-06-2	1,2-Dichloroethane	1 U	591-78-6	2-Hexanone	2 U
74-88-4	Iodomethane	2 U	127-18-4	Tetrachloroethene	1 U
107-02-8	Acrolein	2 U	79-34-5	1,1,2,2-Tetrachloroethane	1 U
107-13-1	Acrylonitrile	2 U	97-63-2	Ethyl methacrylate	1 U
78-93-3	2-Butanone	2 U	108-88-3	Toluene	1 U
71-55-6	1,1,1-Trichloroethane	1 U	108-90-7	Chlorobenzene	1 U
56-23-5	Carbon Tetrachloride	1 U	100-41-4	Ethylbenzene	1 U
108-05-4	Vinyl Acetate	3 U	100-42-5	Styrene	2 U
75-27-4	Bromodichloromethane	1 U	1330-20-7	Total Xylenes	0.9U
78-87-5	1,2-Dichloropropane	1 U			

B - Compound was detected in the QC blank.
< - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

PBD 3/19/93

PBD 5/12/93

9613424.0757

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BOOZS7

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: 0719 SAS No.: _____ SDG No.: EK4368

Matrix: (soil/water) SOIL Lab Sample ID: EK4390

Sample wt/vol: _____ (g/mL) G Lab File ID: KU33EK4390

Level: (low/med) LOW Date Received: 09/13/91

% Moisture: not dec. 0 Date Analyzed: 09/20/91

Column (pack/cap) PACK Dilution Factor: 1

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

251

9613424.0758

Sample Number
BOOZS8

VOLATILE ORGANICS ANALYSIS DATA SHEET

(Page 1)

Laboratory Name: DATACHEM LABS
Lab Sample ID No: EK4391
Sample Matrix: SOIL
Data Release Authorized By: _____

Case No: 0719
QC Report No: _____
Contract No: 3534C
Date Sample Received: 09/13/91

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: _____
Date Analyzed: 09/20/91
Conc/Dil Factor: 1. pH _____
Percent Moisture: (Not Decanted) 0.0

CAS Number		UG/KG		CAS Number		UG/KG	
74-87-3	Chloromethane	3	U	10061-01-5	cis-1,3-Dichloropropene	2	U
74-83-9	Bromomethane	2	U	79-01-6	Trichloroethene	1	U
75-01-4	Vinyl Chloride	3	U	124-48-1	Dibromochloromethane	1	U
75-00-3	Chloroethane	3	U	79-00-5	1,1,2-Trichloroethane	2	U
75-09-2	Methylene Chloride	3	U	71-43-2	Benzene	1	U
67-64-1	Acetone	23	B	10061-02-6	Trans-1,3-Dichloroproene	2	U
75-15-0	Carbon Disulfide	2	U	110-75-8	2-Chloroethylvinylether	2	U
75-69-4	Trichlorofluoromethane	2	U	75-25-2	Bromoform	1	U
75-35-4	1,1-Dichloroethene	2	U	74-95-3	Dibromomethane	0.8	U
75-35-3	1,1-Dichloroethane	2	U	764-41-0	Trans-1,4-dichloro-2-butene	1	U
540-59-0	1,2-Dichloroethene (total)	2	U	108-10-1	4-Methyl-2-Pentanone	2	U
67-66-3	Chloroform	2	U	96-18-4	1,2,3-Trichloropropane	1	U
107-06-2	1,2-Dichloroethane	1	U	591-78-6	2-Hexanone	2	U
74-88-4	Iodomethane	2	U	127-18-4	Tetrachloroethene	1	U
107-02-8	Acrolein	2	U	79-34-5	1,1,2,2-Tetrachloroethane	1	U
107-13-1	Acrylonitrile	2	U	97-63-2	Ethyl methacrylate	1	U
78-93-3	2-Butanone	2	U	108-88-3	Toluene	1	U
71-55-6	1,1,1-Trichloroethane	1	U	108-90-7	Chlorobenzene	1	U
56-23-5	Carbon Tetrachloride	1	U	100-41-4	Ethylbenzene	1	U
108-05-4	Vinyl Acetate	3	U	100-42-5	Styrene	2	U
75-27-4	Bromodichloromethane	1	U	1330-20-7	Total Xylenes	0.9	U
78-87-5	1,2-Dichloropropane	1	U				

B - Compound was detected in the QC blank.
< - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

PGA 5/12/93

9613424.0759

1E

EPA SAMPLE NO.

BOOZS8

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: 0719 SAS No.: _____ SDG No.: EK4368

Matrix: (soil/water) SOIL Lab Sample ID: EK4391

Sample wt/vol: _____ (g/mL) G Lab File ID: KU34EK4391

Level: (low/med) LOW Date Received: 09/13/91

% Moisture: not dec. 0 Date Analyzed: 09/20/91

Column (pack/cap) PACK Dilution Factor: 1

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

260

9613424.0760

ANALYTICAL REPORT FOR SAMPLE No. EK4368

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZO4 Sponsor WESTINGHOUSE HANFORD CO.

File ID ZL4EK4368 Date Extracted 09/17/91 Date of Analysis 09/30/91

DataChem ID S91-0719BC

Cas. No	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
62-75-9	N-nitroso-dimethylamine	U R	1000
108-95-2	phenol	U	330
111-44-4	bis(2-chloroethyl)ether	U	330
95-57-8	2-chlorophenol	U	330
541-73-1	1,3-dichlorobenzene	U	330
106-46-7	1,4-dichlorobenzene	U	330
100-51-6	benzyl alcohol	U	1000
95-50-1	1,2-dichlorobenzene	U	330
95-48-7	2-methylphenol	U	330
39638-329	bis(2-chloroisopropyl)ether	U	330
106-44-5	4-methylphenol	U	330
621-64-7	N-nitroso-di-n-propylamine	U	330
67-72-1	hexachloroethane	U	330
98-95-3	nitrobenzene	U	330
78-59-1	isophorone	U	330
88-75-5	2-nitrophenol	U	330
105-67-9	2,4-dimethylphenol	U	330
111-91-1	bis(2-chloroethoxy)methane	U	330
65-85-0	benzoic acid	U	1000
120-83-2	2,4-dichlorophenol	U	330
120-82-1	1,2,4-trichlorobenzene	U	330
91-20-3	naphthalene	U	330
106-47-8	4-chloroaniline	U	330
87-68-3	hexachlorobutadiene	U	330
59-50-7	4-chloro-3-methylphenol	U	330
91-57-6	2-methylnaphthalene	U	330
77-47-4	hexachlorocyclopentadiene	U	330
88-06-2	2,4,6-trichlorophenol	U	330
95-95-4	2,4,5-trichlorophenol	U	800
91-58-7	2-chloronaphthalene	U	330
88-74-4	2-nitroaniline	U	800
131-11-3	dimethyl phthalate	U	330
606-20-2	2,6-dinitrotoluene	U	330
208-96-8	acenaphthylene	U	330
99-09-2	3-nitroaniline	U	800
83-32-9	acenaphthene	U	330
51-28-5	2,4-dinitrophenol	U	800
100-02-7	4-nitrophenol	U	800
132-64-9	dibenzofuran	U	330

RB
No raw cc data 3/19/93

PBD 5/12/93

See footnotes on page 4.

9613424.0761

ANALYTICAL REPORT FOR SAMPLE No. EK4368

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZO4 Sponsor WESTINGHOUSE HANFORD CO.

Cas. No.	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
121-14-2	2,4-dinitrotoluene	U K	330
84-66-2	diethyl phthalate	370.	330
7005-72-3	4-chlorophenyl-phenylether	U	330
86-73-7	fluorene	U	330
100-01-6	4-nitroaniline	U	800
534-52-1	2-methyl-4,6-dinitrophenol	U	800
86-30-6	N-nitroso-diphenylamine	U	330
122-66-7	1,2-diphenylhydrazine	U	1000
101-55-3	4-bromophenyl-phenylether	U	330
319-84-6	~~alpha-BHC~~	U	1000
319-85-7	~~beta-BHC~~	U	5000
118-74-1	hexachlorobenzene	U	330
87-86-5	pentachlorophenol	U	800
58-89-9	~~gamma-BHC~~	U	1000
85-01-8	phenanthrene	U	330
120-12-7	anthracene	U	330
319-86-8	~~delta-BHC~~	U	5000
76-44-8	~~heptachlor~~	U	5000
84-74-2	di-n-butyl phthalate	U	330
309-00-2	~~aldrin~~	U	5000
1024-57-3	~~heptachlor epoxide~~	U	5000
206-44-0	fluoranthene	U	330
129-00-0	pyrene	U	330
959-98-8	~~endosulfan I~~	U	5000
72-55-9	~~4,4'DDE~~	U	5000
60-57-1	~~dieldrin~~	U	5000
7421-93-4	~~endrin aldehyde~~	U	5000
72-20-8	~~endrin~~	U	5000
72-54-8	~~4,4'DDD~~	U	5000
33213-65-9	~~endosulfan II~~	U	5000
85-68-7	butylbenzylphthalate	U	330
50-29-3	~~4,4'DDT~~	U	5000
1031-07-8	~~endosulfan sulfate~~	U	5000
72-43-5	~~p,p' methoxychlor~~	U	1000
91-94-1	3,3'-dichlorobenzidine	U	1000
56-55-3	benzo(a)anthracene	U	330
117-81-7	bis(2-ethylhexyl)phthalate	U	330
218-01-9	chrysene	U	330
117-84-0	di-n-octylphthalate	U	330

RB No raw QC data

See footnotes on Page 4.

9613424.0762

ANALYTICAL REPORT FOR SAMPLE No. EK4368

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZO4 Sponsor WESTINGHOUSE HANFORD CO.

Cas. No.	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
205-99-2	benzo(b)fluoranthene	U R	330
207-08-9	benzo(k)fluoranthene	U	330
50-32-8	benzo(a)pyrene	U	330
193-39-5	indeno(1,2,3-cd)pyrene	U	330
53-70-3	dibenzo(a,h)anthracene	U	330
191-24-2	benzo(g,h,i)perylene	U	330
53494-70-5	~~endrin ketone~~	~~U~~	1000
109-06-8	2-picoline	U	1000
62-50-0	ethyl methanesulfonate	U	1000
66-27-3	methyl methanesulfonate	U	1000
62-53-3	aniline	U	1000
98-86-2	acetophenone	U	1000
100-75-4	N-nitroso-piperidine	U	1000
122-09-8	a,a-dimethylphenethylamine	U	1000
87-65-0	2,6-dichlorophenol	U	1000
924-16-3	N-nitroso-di-n-butylamine	U	1000
95-94-3	1,2,4,5-tetrachlorobenzene	U	1000
90-13-1	1-chloronaphthalene	U	1000
608-93-5	pentachlorobenzene	U	1000
134-32-7	1-naphthylamine	U	1000
58-90-2	2,3,4,6-tetrachlorophenol	U	1000
91-59-8	2-naphthylamine	U	1000
62-44-2	phenacetin	U	1000
92-67-1	4-aminobiphenyl	U	1000
23950-58-5	pronamide (propyzamide)	U	1000
82-68-8	pentachloronitrobenzene	U	1000
92-87-5	benzidine	U	1000
60-11-7	p-dimethylaminoazobenzene	U	1000
57-97-6	7,12-dimethbenz(a)anthracene	U	1000
56-49-5	3-methylchloranthrene	U	1000
57-74-9	chlordane	U	10000
8001-35-2	toxaphene	U	10000
12674-11-2	PCB-1016	U	10000
11104-28-2	PCB-1221	U	10000
11141-16-5	PCB-1232	U	10000
53469-21-9	PCB-1242	U	10000
12672-29-6	PCB-1248	U	10000
11097-69-1	PCB-1254	U	10000
11096-82-5	PCB-1260	U	10000

No ce lower data as per log

RB 3/19/93

See footnotes on Page 4.

9613424.0763

ANALYTICAL REPORT FOR SAMPLE No. EK4390

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID B00ZS7 Sponsor WESTINGHOUSE HANFORD CO.

File ID ZM17EK4890 Date Extracted 09/17/91 Date of Analysis 10/01/91

DataChem ID S91-0719BC

Cas. No	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
62-75-9	N-nitroso-dimethylamine	U	1000
108-95-2	phenol	U	330
111-44-4	bis(2-chloroethyl)ether	U	330
95-57-8	2-chlorophenol	U	330
541-73-1	1,3-dichlorobenzene	U	330
106-46-7	1,4-dichlorobenzene	U	330
100-51-6	benzyl alcohol	U	1000
95-50-1	1,2-dichlorobenzene	U	330
95-48-7	2-methylphenol	U	330
39638-329	bis(2-chloroisopropyl)ether	U	330
106-44-5	4-methylphenol	U	330
621-64-7	N-nitroso-di-n-propylamine	U	330
67-72-1	hexachloroethane	U	330
98-95-3	nitrobenzene	U	330
78-59-1	isophorone	U	330
88-75-5	2-nitrophenol	U	330
105-67-9	2,4-dimethylphenol	U	330
111-91-1	bis(2-chloroethoxy)methane	U	330
65-85-0	benzoic acid	UJ	1000
120-83-2	2,4-dichlorophenol	U	330
120-82-1	1,2,4-trichlorobenzene	U	330
91-20-3	naphthalene	U	330
106-47-8	4-chloroaniline	U	330
87-68-3	hexachlorobutadiene	U	330
59-50-7	4-chloro-3-methylphenol	U	330
91-57-6	2-methylnaphthalene	U	330
77-47-4	hexachlorocyclopentadiene	U	330
88-06-2	2,4,6-trichlorophenol	U	330
95-95-4	2,4,5-trichlorophenol	UJ	800
91-58-7	2-chloronaphthalene	UJ	330
88-74-4	2-nitroaniline	UJ	800
131-11-3	dimethyl phthalate	U	330
606-20-2	2,6-dinitrotoluene	U	330
208-96-8	acenaphthylene	U	330
99-09-2	3-nitroaniline	UJ	800
83-32-9	acenaphthene	U	330
51-28-5	2,4-dinitrophenol	UJ	800
100-02-7	4-nitrophenol	UJ	800
132-64-9	dibenzofuran	U	330

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See footnotes on page 4.

BD 5/12/93

9613424.0764

ANALYTICAL REPORT FOR SAMPLE No. EK4390

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZS7 Sponsor WESTINGHOUSE HANFORD CO.

Cas. No.	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
121-14-2	2,4-dinitrotoluene	U	330
84-66-2	diethyl phthalate	U	330
7005-72-3	4-chlorophenyl-phenylether	U J - RSD	330
86-73-7	fluorene	U	330
100-01-6	4-nitroaniline	U J	800
534-52-1	2-methyl-4,6-dinitrophenol	U J	800
86-30-6	N-nitroso-diphenylamine	U	330
122-66-7	1,2-diphenylhydrazine	U	1000
101-55-3	4-bromophenyl-phenylether	U	330
319-84-6	~~alpha-BHC~~	U	1000
319-85-7	~~beta-BHC~~	U	5000
118-74-1	hexachlorobenzene	U J - RSD	330
87-86-5	pentachlorophenol	U J	800
58-89-9	~~gamma-BHC~~	U	1000
85-01-8	phenanthrene	U	330
120-12-7	anthracene	U	330
319-86-8	~~delta-BHC~~	U	5000
76-44-8	~~heptachlor~~	U	5000
84-74-2	di-n-butyl phthalate	120.J	330
309-00-2	~~aldrin~~	U	5000
1024-57-3	~~heptachlor epoxide~~	U	5000
206-44-0	fluoranthene	U	330
129-00-0	pyrene	U	330
959-98-8	~~endosulfan I~~	U	5000
72-55-9	~~4,4'DDE~~	U	5000
60-57-1	~~dieldrin~~	U	5000
7421-93-4	~~endrin aldehyde~~	U	5000
72-20-8	~~endrin~~	U	5000
72-54-8	~~4,4'DDD~~	U	5000
33213-65-9	~~endosulfan II~~	U	5000
85-68-7	butylbenzylphthalate	810.	330
50-29-3	~~4,4'DDT~~	U	5000
1031-07-8	~~endosulfan sulfate~~	U	5000
72-43-5	~~p,p' methoxychlor~~	U	1000
91-94-1	3,3'-dichlorobenzidine	U	1000
56-55-3	benzo(a)anthracene	U	330
117-81-7	bis(2-ethylhexyl)phthalate	29.J	330
218-01-9	chrysene	U	330
117-84-0	di-n-octylphthalate	U	330

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See footnotes on Page 4.

9613424.0765

ANALYTICAL REPORT FOR SAMPLE No. EK4390

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZS7 Sponsor WESTINGHOUSE HANFORD CO.

Cas. No.	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
205-99-2	benzo(b)fluoranthene	U	330
207-08-9	benzo(k)fluoranthene	U	330
50-32-8	benzo(a)pyrene	U	330
193-39-5	indeno(1,2,3-cd)pyrene	U	330
53-70-3	dibenzo(a,h)anthracene	U	330
191-24-2	benzo(g,h,i)perylene	U	330
53494-70-5	~~endrin ketone~~	U	1000
109-06-8	2-picoline	U	1000
62-50-0	ethyl methanesulfonate	U	1000
66-27-3	methyl methanesulfonate	U	1000
62-53-3	aniline	U	1000
98-86-2	acetophenone	U	1000
100-75-4	N-nitroso-piperidine	U	1000
122-09-8	a,a-dimethylphenethylamine	U	1000
87-65-0	2,6-dichlorophenol	U	1000
924-16-3	N-nitroso-di-n-butylamine	U	1000
95-94-3	1,2,4,5-tetrachlorobenzene	U	1000
90-13-1	1-chloronaphthalene	U	1000
608-93-5	pentachlorobenzene	U	1000
134-32-7	1-naphthylamine	U	1000
58-90-2	2,3,4,6-tetrachlorophenol	U	1000
91-59-8	2-naphthylamine	U	1000
62-44-2	phenacetin	U	1000
92-67-1	4-aminobiphenyl	U	1000
23950-58-5	pronamide (propyzamide)	U	1000
82-68-8	pentachloronitrobenzene	U	1000
92-87-5	benzidine	U	1000
60-11-7	p-dimethylaminoazobenzene	U	1000
57-97-6	7,12-dimethbenz(a)anthracene	U	1000
56-49-5	3-methylchloranthrene	U	1000
57-74-9	chlordane	U	10000
8001-35-2	toxaphene	U	10000
12674-11-2	PCB-1016	U	10000
11104-28-2	PCB-1221	U	10000
11141-16-5	PCB-1232	U	10000
53469-21-9	PCB-1242	U	10000
12672-29-6	PCB-1248	U	10000
11097-69-1	PCB-1254	U	10000
11096-82-5	PCB-1260	U	10000

RB 3/17/93

See footnotes on Page 4.

9613424.0766

ANALYTICAL REPORT FOR SAMPLE No. EK4391

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID B00ZS8 Sponsor WESTINGHOUSE HANFORD CO.

File ID ZL5EK4391 Date Extracted 09/17/91 Date of Analysis 09/30/91

DataChem ID S91-0719BC

Cas. No	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
62-75-9	N-nitroso-dimethylamine	U	1000
108-95-2	phenol	U	330
111-44-4	bis(2-chloroethyl)ether	U	330
95-57-8	2-chlorophenol	U	330
541-73-1	1,3-dichlorobenzene	U	330
106-46-7	1,4-dichlorobenzene	U	330
100-51-6	benzyl alcohol	U	1000
95-50-1	1,2-dichlorobenzene	U	330
95-48-7	2-methylphenol	U	330
39638-329	bis(2-chloroisopropyl)ether	U	330
106-44-5	4-methylphenol	U	330
621-64-7	N-nitroso-di-n-propylamine	U	330
67-72-1	hexachloroethane	U	330
98-95-3	nitrobenzene	U	330
78-59-1	isophorone	U	330
88-75-5	2-nitrophenol	U	330
105-67-9	2,4-dimethylphenol	U	330
111-91-1	bis(2-chloroethoxy)methane	U	330
65-85-0	benzoic acid	U J	1000
120-83-2	2,4-dichlorophenol	U	330
120-82-1	1,2,4-trichlorobenzene	U	330
91-20-3	naphthalene	U	330
106-47-8	4-chloroaniline	U	330
87-68-3	hexachlorobutadiene	U	330
59-50-7	4-chloro-3-methylphenol	U	330
91-57-6	2-methylnaphthalene	U	330
77-47-4	hexachlorocyclopentadiene	U	330
88-06-2	2,4,6-trichlorophenol	U	330
95-95-4	2,4,5-trichlorophenol	U J	800
91-58-7	2-chloronaphthalene	U	330
88-74-4	2-nitroaniline	U J	800
131-11-3	dimethyl phthalate	U	330
606-20-2	2,6-dinitrotoluene	U	330
208-96-8	acenaphthylene	U	330
99-09-2	3-nitroaniline	U J	800
83-32-9	acenaphthene	U	330
51-28-5	2,4-dinitrophenol	U J	800
100-02-7	4-nitrophenol	U J	800
132-64-9	dibenzofuran	U	330

RB 3/15/93

See footnotes on page 4.

5/12/92

9613424.0767

ANALYTICAL REPORT FOR SAMPLE No. EK4391

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZS8 Sponsor WESTINGHOUSE HANFORD CO.

Cas. No.	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
121-14-2	2,4-dinitrotoluene	U	330
84-66-2	diethyl phthalate	U	330
7005-72-3	4-chlorophenyl-phenylether	U	330
86-73-7	fluorene	U	330
100-01-6	4-nitroaniline	U	800
534-52-1	2-methyl-4,6-dinitrophenol	U	800
86-30-6	N-nitroso-diphenylamine	U	330
122-66-7	1,2-diphenylhydrazine	U	1000
101-55-3	4-bromophenyl-phenylether	U	330
319-84-6	~~alpha-BHC~~	U	1000
319-85-7	~~beta-BHC~~	U	5000
118-74-1	hexachlorobenzene	U	330
87-86-5	pentachlorophenol	U	800
58-89-9	~~gamma-BHC~~	U	1000
85-01-8	phenanthrene	U	330
120-12-7	anthracene	U	330
319-86-8	~~delta-BHC~~	U	5000
76-44-8	~~heptachlor~~	U	5000
84-74-2	di-n-butyl phthalate	U	330
309-00-2	~~aldrin~~	U	5000
1024-57-3	~~heptachlor epoxide~~	U	5000
206-44-0	fluoranthene	U	330
129-00-0	pyrene	U	330
959-98-8	~~endosulfan I~~	U	5000
72-55-9	~~4,4'DDE~~	U	5000
60-57-1	~~dieldrin~~	U	5000
7421-93-4	~~endrin aldehyde~~	U	5000
72-20-8	~~endrin~~	U	5000
72-54-8	~~4,4'DDD~~	U	5000
33213-65-9	~~endosulfan II~~	U	5000
85-68-7	butylbenzylphthalate	U	330
50-29-3	~~4,4'DDT~~	U	5000
1031-07-8	~~endosulfan sulfate~~	U	5000
72-43-5	~~p,p'-methoxychlor~~	U	1000
91-94-1	3,3'-dichlorobenzidine	U	1000
56-55-3	benzo(a)anthracene	U	330
117-81-7	bis(2-ethylhexyl)phthalate	U	330
218-01-9	chrysene	U	330
117-84-0	di-n-octylphthalate	U	330

BB 3/19/93

See footnotes on Page 4.

9613424.0768

ANALYTICAL REPORT FOR SAMPLE No. EK4391

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZS8 Sponsor WESTINGHOUSE HANFORD CO.

Cas. No.	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
205-99-2	benzo(b)fluoranthene	U	330
207-08-9	benzo(k)fluoranthene	U	330
50-32-8	benzo(a)pyrene	U	330
193-39-5	indeno(1,2,3-cd)pyrene	U	330
53-70-3	dibenzo(a,h)anthracene	U	330
191-24-2	benzo(g,h,i)perylene	U	330
53494-70-5	endrin ketone	U	1000
109-06-8	2-picoline	U	1000
62-50-0	ethyl methanesulfonate	U	1000
66-27-3	methyl methanesulfonate	U	1000
62-53-3	aniline	U	1000
98-86-2	acetophenone	U	1000
100-75-4	N-nitroso-piperidine	U	1000
122-09-8	a,a-dimethylphenethylamine	U	1000
87-65-0	2,6-dichlorophenol	U	1000
924-16-3	N-nitroso-di-n-butylamine	U	1000
95-94-3	1,2,4,5-tetrachlorobenzene	U	1000
90-13-1	1-chloronaphthalene	U	1000
608-93-5	pentachlorobenzene	U	1000
134-32-7	1-naphthylamine	U	1000
58-90-2	2,3,4,6-tetrachlorophenol	U	1000
91-59-8	2-naphthylamine	U	1000
62-44-2	phenacetin	U	1000
92-67-1	4-aminobiphenyl	U	1000
23950-58-5	pronamide (propyzamide)	U	1000
82-68-8	pentachloronitrobenzene	U	1000
92-87-5	benzidine	U	1000
60-11-7	p-dimethylaminoazobenzene	U	1000
57-97-6	7,12-dimethbenz(a)anthracene	U	1000
56-49-5	3-methylchloranthrene	U	1000
57-74-9	~~chlordane~~	U	10000
8001-35-2	~~toxaphene~~	U	10000
12674-11-2	PCB-1016	U	10000
11104-28-2	PCB-1221	U	10000
11141-16-5	PCB-1232	U	10000
53469-21-9	PCB-1242	U	10000
12672-29-6	PCB-1248	U	10000
11097-69-1	PCB-1254	U	10000
11096-82-5	PCB-1260	U	10000

RB 3/24/93

See footnotes on Page 4.

9413424.0769

RB 5/24/93

ANALYTICAL REPORT FOR SAMPLE No. EK4368

000026

Pesticide Form I's

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZO4 Sponsor WESTINGHOUSE HANFORD CO.

File ID ZL4EK4368 Date Extracted 09/17/91 Date of Analysis 09/30/91

DataChem ID S91-0719BC

Cas. No	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
62-75-9	N-nitroso-dimethylamine	U	1000
108-95-2	phenol	U	330
111-44-4	bis(2-chloroethyl)ether	U	330
95-57-8	2-chlorophenol	U	330
541-73-1	1,3-dichlorobenzene	U	330
106-46-7	1,4-dichlorobenzene	U	330
100-51-6	benzyl alcohol	U	1000
95-50-1	1,2-dichlorobenzene	U	330
95-48-7	2-methylphenol	U	330
39638-329	bis(2-chloroisopropyl)ether	U	330
106-44-5	4-methylphenol	U	330
621-64-7	N-nitroso-di-n-propylamine	U	330
67-72-1	hexachloroethane	U	330
98-95-3	nitrobenzene	U	330
78-59-1	isophorone	U	330
88-75-5	2-nitrophenol	U	330
105-67-9	2,4-dimethylphenol	U	330
111-91-1	bis(2-chloroethoxy)methane	U	330
65-85-0	benzoic acid	U	1000
120-83-2	2,4-dichlorophenol	U	330
120-82-1	1,2,4-trichlorobenzene	U	330
91-20-3	naphthalene	U	330
106-47-8	4-chloroaniline	U	330
87-68-3	hexachlorobutadiene	U	330
59-50-7	4-chloro-3-methylphenol	U	330
91-57-6	2-methylnaphthalene	U	330
77-47-4	hexachlorocyclopentadiene	U	330
88-06-2	2,4,6-trichlorophenol	U	330
95-95-4	2,4,5-trichlorophenol	U	800
91-58-7	2-chloronaphthalene	U	330
88-74-4	2-nitroaniline	U	800
131-11-3	dimethyl phthalate	U	330
606-20-2	2,6-dinitrotoluene	U	330
208-96-8	acenaphthylene	U	330
99-09-2	3-nitroaniline	U	800
83-32-9	acenaphthene	U	330
51-28-5	2,4-dinitrophenol	U	800
100-02-7	4-nitrophenol	U	800
132-64-9	dibenzofuran	U	330

RB 5/24/93

DO NOT USE

See footnotes on page 4.

9613424.0770

000027

ANALYTICAL REPORT FOR SAMPLE No. EK4368

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZO4 Sponsor WESTINGHOUSE HANFORD CO.

Cas. No.	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
121-14-2	2,4-dinitrotoluene	U	330
84-66-2	diethyl phthalate	370.	330
7005-72-3	4-chlorophenyl-phenylether	U	330
86-73-7	fluorene	U	330
100-01-6	4-nitroaniline	U	800
534-52-1	2-methyl-4,6-dinitrophenol	U	800
86-30-6	N-nitroso-diphenylamine	U	330
122-66-7	1,2-diphenylhydrazine	U	1000
101-55-3	4-bromophenyl-phenylether	U	330
319-84-6	alpha-BHC	UJ	1000
319-85-7	beta-BHC	UJ	5000
118-74-1	hexachlorobenzene	U	330
87-86-5	pentachlorophenol	U	800
58-89-9	gamma-BHC	UJ	1000
85-01-8	phenanthrene	U	330
120-12-7	anthracene	U	330
319-86-8	delta-BHC	UJ	5000
76-44-8	heptachlor	UJ	5000
84-74-2	di-n-butyl phthalate	U	330
309-00-2	aldrin	UJ	5000
1024-57-3	heptachlor epoxide	UJ	5000
206-44-0	fluoranthene	U	330
129-00-0	pyrene	U	330
959-98-8	endosulfan I	UJ	5000
72-55-9	4,4'DDE	U	5000
60-57-1	dieldrin	U	5000
7421-93-4	endrin aldehyde	U	5000
72-20-8	endrin	U	5000
72-54-8	4,4'DDD	U	5000
33213-65-9	endosulfan II	U	5000
85-68-7	butylbenzylphthalate	U	330
50-29-3	4,4'DDT	UJ	5000
1031-07-8	endosulfan sulfate	U	5000
72-43-5	p,p'-methoxychlor	U	1000
91-94-1	3,3'-dichlorobenzidine	U	1000
56-55-3	benzo(a)anthracene	U	330
117-81-7	bis(2-ethylhexyl)phthalate	U	330
218-01-9	chrysene	U	330
117-84-0	di-n-octylphthalate	U	330

Do NOT USE

Do NOT USE

RB 5/24/93

Do NOT USE

Do NOT USE

DO NOT USE

Do NOT USE

See footnotes on Page 4.

9613424.0771

ANALYTICAL REPORT FOR SAMPLE No. EK4368 000028

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID B00Z04 Sponsor WESTINGHOUSE HANFORD CO.

Cas. No.	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)	
205-99-2	benzo(b)fluoranthene	U	330	Do NOT USE
207-08-9	benzo(k)fluoranthene	U	330	
50-32-8	benzo(a)pyrene	U	330	
193-39-5	indeno(1,2,3-cd)pyrene	U	330	
53-70-3	dibenzo(a,h)anthracene	U	330	
191-24-2	benzo(g,h,i)perylene	U	330	
53494-70-5	endrin ketone	U	1000	
109-06-8	2-picoline	U	1000	RB 5/24/93 Do NOT USE
62-50-0	ethyl methanesulfonate	U	1000	
66-27-3	methyl methanesulfonate	U	1000	
62-53-3	aniline	U	1000	
98-86-2	acetophenone	U	1000	
100-75-4	N-nitroso-piperidine	U	1000	
122-09-8	a,a-dimethylphenethylamine	U	1000	
87-65-0	2,6-dichlorophenol	U	1000	
924-16-3	N-nitroso-di-n-butylamine	U	1000	
95-94-3	1,2,4,5-tetrachlorobenzene	U	1000	
90-13-1	1-chloronaphthalene	U	1000	
608-93-5	pentachlorobenzene	U	1000	
134-32-7	1-naphthylamine	U	1000	
58-90-2	2,3,4,6-tetrachlorophenol	U	1000	
91-59-8	2-naphthylamine	U	1000	
62-44-2	phenacetin	U	1000	
92-67-1	4-aminobiphenyl	U	1000	
23950-58-5	pronamide (propyzamide)	U	1000	
82-68-8	pentachloronitrobenzene	U	1000	
92-87-5	benzidine	U	1000	
60-11-7	p-dimethylaminoazobenzene	U	1000	
57-97-6	7,12-dimethbenz(a)anthracene	U	1000	
56-49-5	3-methylchloranthrene	U	1000	
57-74-9	chlordane	U	10000	
8001-35-2	toxaphene	U R	10000	
12674-11-2	PCB-1016	U	10000	Do NOT USE
11104-28-2	PCB-1221	U	10000	
11141-16-5	PCB-1232	U	10000	
53469-21-9	PCB-1242	U	10000	
12672-29-6	PCB-1248	U	10000	
11097-69-1	PCB-1254	U	10000	
11096-82-5	PCB-1260	U	10000	

See footnotes on Page 4.

ANALYTICAL REPORT FOR SAMPLE No. EK4368

NON-TARGET ANALYTE RESULTS
Additional Semi-Volatiles

Field Sample ID BOOZO4

Cas. No	COMPOUND	Scan Number	Results ug/Kg	Footnotes
	ALDOL CONDENSATION PRODUCT	554	360	NEWB
	ALDOL CONDENSATION PRODUCT	597	900	NEWB
	BROMODIFLUORO H.C.	830	130	NEW
	HEXANEDIOIC ACID, C8 ESTER	1747	240	NEW

RB 5/24/93

FOOTNOTES

- B The analyte was found in the method blank. The reported results have been adjusted for the quantity found in the blank.
- E The reported concentration is an estimate only. The response factor was assumed to be 1.000 relative to an internal standard.
- J Indicates an estimated concentration below the Method Detection Limit.
- K The isomer is unknown.
- N Analytical standards were not analyzed for this compound.
- U Not detected.
- W The identification is tentative or closely related to the compound.

9613424.0773

000030

ANALYTICAL REPORT FOR SAMPLE No. EK4369

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID B00Z05 Sponsor WESTINGHOUSE HANFORD CO.

File ID ZM12EK4369D Date Extracted 09/17/91 Date of Analysis 10/01/91

DataChem ID S91-0719BC

Cas. No	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
62-75-9	N-nitroso-dimethylamine	U	10000
108-95-2	phenol	U	3300
111-44-4	bis(2-chloroethyl)ether	U	3300
95-57-8	2-chlorophenol	U	3300
541-73-1	1,3-dichlorobenzene	U	3300
106-46-7	1,4-dichlorobenzene	U	3300
100-51-6	benzyl alcohol	U	10000
95-50-1	1,2-dichlorobenzene	U	3300
95-48-7	2-methylphenol	U	3300
39638-329	bis(2-chloroisopropyl)ether	U	3300
106-44-5	4-methylphenol	U	3300
621-64-7	N-nitroso-di-n-propylamine	U	3300
67-72-1	hexachloroethane	U	3300
98-95-3	nitrobenzene	U	3300
78-59-1	isophorone	U	3300
88-75-5	2-nitrophenol	U	3300
105-67-9	2,4-dimethylphenol	U	3300
111-91-1	bis(2-chloroethoxy)methane	U	3300
65-85-0	benzoic acid	U	10000
120-83-2	2,4-dichlorophenol	U	3300
120-82-1	1,2,4-trichlorobenzene	U	3300
91-20-3	naphthalene	U	3300
106-47-8	4-chloroaniline	U	3300
87-68-3	hexachlorobutadiene	U	3300
59-50-7	4-chloro-3-methylphenol	U	3300
91-57-6	2-methylnaphthalene	U	3300
77-47-4	hexachlorocyclopentadiene	U	3300
88-06-2	2,4,6-trichlorophenol	U	3300
95-95-4	2,4,5-trichlorophenol	U	8000
91-58-7	2-chloronaphthalene	U	3300
88-74-4	2-nitroaniline	U	8000
131-11-3	dimethyl phthalate	U	3300
606-20-2	2,6-dinitrotoluene	U	3300
208-96-8	acenaphthylene	U	3300
99-09-2	3-nitroaniline	U	8000
83-32-9	acenaphthene	U	3300
51-28-5	2,4-dinitrophenol	U	8000
100-02-7	4-nitrophenol	U	8000
132-64-9	dibenzofuran	U	3300

RB 5/24/93

DO NOT USE

See footnotes on page 4.

9613424.0774

000031

ANALYTICAL REPORT FOR SAMPLE No. EK4369

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID B00Z05 Sponsor WESTINGHOUSE HANFORD CO.

Cas. No.	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
121-14-2	2,4-dinitrotoluene	U	3300
84-66-2	diethyl phthalate	U	3300
7005-72-3	4-chlorophenyl-phenylether	U	3300
86-73-7	fluorene	U	3300
100-01-6	4-nitroaniline	U	8000
534-52-1	2-methyl-4,6-dinitrophenol	U	8000
86-30-6	N-nitroso-diphenylamine	U	3300
122-66-7	1,2-diphenylhydrazine	U	10000
101-55-3	4-bromophenyl-phenylether	U	3300
319-84-6	alpha-BHC	UJ	10000
319-85-7	beta-BHC	UJ	50000
118-74-1	hexachlorobenzene	U	3300
87-86-5	pentachlorophenol	U	8000
58-89-9	gamma-BHC	UJ	10000
85-01-8	phenanthrene	U	3300
120-12-7	anthracene	U	3300
319-86-8	delta-BHC	UJ	50000
76-44-8	heptachlor	UJ	50000
84-74-2	di-n-butyl phthalate	U	3300
309-00-2	aldrin	UJ	50000
1024-57-3	heptachlor epoxide	UJ	50000
206-44-0	fluoranthene	610 J	3300
129-00-0	pyrene	460 J	3300
959-98-8	endosulfan I	UJ	50000
72-55-9	4,4'DDE	U	50000
60-57-1	dieldrin	U	50000
7421-93-4	endrin aldehyde	U	50000
72-20-8	endrin	U	50000
72-54-8	4,4'DDD	U	50000
33213-65-9	endosulfan II	U	50000
85-68-7	butylbenzylphthalate	U	3300
50-29-3	4,4'DDT	UJ	50000
1031-07-8	endosulfan sulfate	U	50000
72-43-5	p,p'-methoxychlor	U	10000
91-94-1	3,3'-dichlorobenzidine	U	10000
56-55-3	benzo(a)anthracene	360 J	3300
117-81-7	bis(2-ethylhexyl)phthalate	U	3300
218-01-9	chrysene	650 J	3300
117-84-0	di-n-octylphthalate	U	3300

DO NOT USE

RB 5/24/93

DO not use

Do not use

DO NOT USE

DO NOT USE

DO NOT USE

DO NOT USE

See footnotes on Page 4.

ANALYTICAL REPORT FOR SAMPLE No. EK4369 **000032**

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID B00Z05 Sponsor WESTINGHOUSE HANFORD CO.

Cas. No.	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
205-99-2	~~benzo(b)fluoranthene~~	U	3300
207-08-9	benzo(k)fluoranthene	U	3300
50-32-8	benzo(a)pyrene	U	3300
193-39-5	indeno(1,2,3-cd)pyrene	U	3300
53-70-3	dibenzo(a,h)anthracene	U	3300
191-24-2	benzo(g,h,i)perylene	U	3300
53494-70-5	endrin ketone	UJ	10000
109-06-8	2-picoline	U	10000
62-50-0	ethyl methanesulfonate	U	10000
66-27-3	methyl methanesulfonate	U	10000
62-53-3	aniline	U	10000
98-86-2	acetophenone	U	10000
100-75-4	N-nitroso-piperidine	U	10000
122-09-8	a,a-dimethylphenethylamine	U	10000
87-65-0	2,6-dichlorophenol	U	10000
924-16-3	N-nitroso-di-n-butylamine	U	10000
95-94-3	1,2,4,5-tetrachlorobenzene	U	10000
90-13-1	1-chloronaphthalene	U	10000
608-93-5	pentachlorobenzene	U	10000
134-32-7	1-naphthylamine	U	10000
58-90-2	2,3,4,6-tetrachlorophenol	U	10000
91-59-8	2-naphthylamine	U	10000
62-44-2	phenacetin	U	10000
92-67-1	4-aminobiphenyl	U	10000
23950-58-5	pronamide (propyzamide)	U	10000
82-68-8	pentachloronitrobenzene	U	10000
92-87-5	benzidine	U	10000
60-11-7	p-dimethylaminoazobenzene	U	10000
57-97-6	7,12-dimethbenz(a)anthracene	U	10000
56-49-5	3-methylchloranthrene	U	10000
57-74-9	chlordane	UJ	100000
8001-35-2	toxaphene	~~UJ~~ R	100000
12674-11-2	PCB-1016	P	100000
11104-28-2	PCB-1221	P	100000
11141-16-5	PCB-1232	P	100000
53469-21-9	PCB-1242	P	100000
12672-29-6	PCB-1248	P	100000
11097-69-1	PCB-1254	P	100000
11096-82-5	PCB-1260	P	100000

DO NOT USE

DO NOT USE

RB 5/24/93

See footnotes on Page 4.

ANALYTICAL REPORT FOR SAMPLE No. EK4369

NON-TARGET ANALYTE RESULTS
Additional Semi-Volatiles

Field Sample ID BOOZO5

Do NOT USE

Cas. No	COMPOUND	Scan Number	Results ug/Kg	Footnotes
	UNK OXY H.C.	1392	16000	NEW
	UNK OXY H.C.	1446	25000	NEW
	UNK CYCLIC H.C.	1487	36000	NEW
	UNK POLYCYCLIC H.C.	1503	22000	NEW
	UNK POLYCYCLIC H.C.	1535	11000	NEW
	UNK POLYCYCLIC H.C.	1540	14000	NEW
	UNK POLYCYCLIC H.C.	1551	15000	NEW
	UNK POLYCYCLIC H.C.	1560	11000	NEW
	UNK POLYCYCLIC H.C.	1575	15000	NEW
	SILICON CONTAINING H.C.	1887	14000	NEW

RB
5/24/93

FOOTNOTES

B The analyte was found in the method blank. The reported results have been adjusted for the quantity found in the blank.
E The reported concentration is an estimate only. The response factor was assumed to be 1.000 relative to an internal standard.
J Indicates an estimated concentration below the Method Detection Limit.
K The isomer is unknown.
N Analytical standards were not analyzed for this compound.
U Not detected.
W The identification is tentative or closely related to the compound.

9613424.0777

000034

ANALYTICAL REPORT FOR SAMPLE No. EK4370

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID B00Z06 Sponsor WESTINGHOUSE HANFORD CO.

File ID ZM11EK4370D Date Extracted 09/17/91 Date of Analysis 10/01/91

DataChem ID S91-0719BC

Cas. No	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
62-75-9	N-nitroso-dimethylamine	U	10000
108-95-2	phenol	U	3300
111-44-4	bis(2-chloroethyl)ether	U	3300
95-57-8	2-chlorophenol	U	3300
541-73-1	1,3-dichlorobenzene	U	3300
106-46-7	1,4-dichlorobenzene	U	3300
100-51-6	benzyl alcohol	U	10000
95-50-1	1,2-dichlorobenzene	U	3300
95-48-7	2-methylphenol	U	3300
39638-329	bis(2-chloroisopropyl)ether	U	3300
106-44-5	4-methylphenol	U	3300
621-64-7	N-nitroso-di-n-propylamine	U	3300
67-72-1	hexachloroethane	U	3300
98-95-3	nitrobenzene	U	3300
78-59-1	isophorone	U	3300
88-75-5	2-nitrophenol	U	3300
105-67-9	2,4-dimethylphenol	U	3300
111-91-1	bis(2-chloroethoxy)methane	U	3300
65-85-0	benzoic acid	U	10000
120-83-2	2,4-dichlorophenol	U	3300
120-82-1	1,2,4-trichlorobenzene	U	3300
91-20-3	naphthalene	220.J	3300
106-47-8	4-chloroaniline	U	3300
87-68-3	hexachlorobutadiene	U	3300
59-50-7	4-chloro-3-methylphenol	U	3300
91-57-6	2-methylnaphthalene	U	3300
77-47-4	hexachlorocyclopentadiene	U	3300
88-06-2	2,4,6-trichlorophenol	U	3300
95-95-4	2,4,5-trichlorophenol	U	8000
91-58-7	2-chloronaphthalene	U	3300
88-74-4	2-nitroaniline	U	8000
131-11-3	dimethyl phthalate	U	3300
606-20-2	2,6-dinitrotoluene	U	3300
208-96-8	acenaphthylene	U	3300
99-09-2	3-nitroaniline	U	8000
83-32-9	acenaphthene	270.J	3300
51-28-5	2,4-dinitrophenol	U	8000
100-02-7	4-nitrophenol	U	8000
132-64-9	dibenzofuran	U	3300

DO NOT USE

RB 5/24/93

See footnotes on page 4.

ANALYTICAL REPORT FOR SAMPLE No. EK4370

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID B00Z06 Sponsor WESTINGHOUSE HANFORD CO.

Cas. No.	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)	
121-14-2	2,4-dinitrotoluene	U	3300	RB 5/24/93
84-66-2	diethyl phthalate	U	3300	
7005-72-3	4-chlorophenyl-phenylether	U	3300	
86-73-7	fluorene	U	3300	
100-01-6	4-nitroaniline	U	8000	DO NOT USE
534-52-1	2-methyl-4,6-dinitrophenol	U	8000	
86-30-6	N-nitroso-diphenylamine	U	3300	
122-66-7	1,2-diphenylhydrazine	U	10000	
101-55-3	4-bromophenyl-phenylether	U	3300	
319-84-6	alpha-BHC	UJ	10000	
319-85-7	beta-BHC	UJ	50000	
118-74-1	hexachlorobenzene	U	3300	do not use
87-86-5	pentachlorophenol	U	8000	
58-89-9	gamma-BHC	U	10000	
85-01-8	phenanthrene	4300.	3300	do not use
120-12-7	anthracene	490.J	3300	
319-86-8	delta-BHC	UJ	50000	
76-44-8	heptachlor	UJ	50000	
84-74-2	di-n-butyl phthalate	U	3300	do not use
309-00-2	aldrin	UJ	50000	
1024-57-3	heptachlor epoxide	UJ	50000	
206-44-0	fluoranthene	6600.	3300	do not use
129-00-0	pyrene	5300.	3300	
959-98-8	endosulfan I	UJ	50000	
72-55-9	4,4'DDE	U	50000	
60-57-1	dieldrin	U	50000	
7421-93-4	endrin aldehyde	U	50000	
72-20-8	endrin	U	50000	
72-54-8	4,4'DDD	U	50000	
33213-65-9	endosulfan II	U	50000	
85-68-7	butylbenzylphthalate	U	3300	do not use
50-29-3	4,4'DDT	UJ	50000	
1031-07-8	endosulfan sulfate	U	50000	
72-43-5	p,p'-methoxychlor	U	10000	
91-94-1	3,3'-dichlorobenzidine	U	10000	do not use
56-55-3	benzo(a)anthracene	2200.J	3300	
117-81-7	bis(2-ethylhexyl)phthalate	U	3300	
218-01-9	chrysene	3500.	3300	
117-84-0	di-n-octylphthalate	U	3300	

See footnotes on Page 4.

ANALYTICAL REPORT FOR SAMPLE No. EK4370

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID B00Z06 Sponsor WESTINGHOUSE HANFORD CO.

Cas. No.	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
205-99-2	benzo(b)fluoranthene	2100.J	3300
207-08-9	benzo(k)fluoranthene	2600.J	3300
50-32-8	benzo(a)pyrene	2200.J	3300
193-39-5	indeno(1,2,3-cd)pyrene	1600.J	3300
53-70-3	dibenzo(a,h)anthracene	U	3300
191-24-2	benzo(g,h,i)perylene	U	3300
53494-70-5	endrin ketone	UJ	10000
109-06-8	2-picoline	U	10000
62-50-0	ethyl methanesulfonate	U	10000
66-27-3	methyl methanesulfonate	U	10000
62-53-3	aniline	U	10000
98-86-2	acetophenone	U	10000
100-75-4	N-nitroso-piperidine	U	10000
122-09-8	a,a-dimethylphenethylamine	U	10000
87-65-0	2,6-dichlorophenol	U	10000
924-16-3	N-nitroso-di-n-butylamine	U	10000
95-94-3	1,2,4,5-tetrachlorobenzene	U	10000
90-13-1	1-chloronaphthalene	U	10000
608-93-5	pentachlorobenzene	U	10000
134-32-7	1-naphthylamine	U	10000
58-90-2	2,3,4,6-tetrachlorophenol	U	10000
91-59-8	2-naphthylamine	U	10000
62-44-2	phenacetin	U	10000
92-67-1	4-aminobiphenyl	U	10000
23950-58-5	pronamide (propyzamide)	U	10000
82-68-8	pentachloronitrobenzene	U	10000
92-87-5	benzidine	U	10000
60-11-7	p-dimethylaminoazobenzene	U	10000
57-97-6	7,12-dimethbenz(a)anthracene	U	10000
56-49-5	3-methylchloranthrene	U	10000
57-74-9	chlordane	UJ	100000
8001-35-2	toxaphene	UR	100000
12674-11-2	PCB-1016	U	100000
11104-28-2	PCB-1221	U	100000
11141-16-5	PCB-1232	U	100000
53469-21-9	PCB-1242	U	100000
12672-29-6	PCB-1248	U	100000
11097-69-1	PCB-1254	U	100000
11096-82-5	PCB-1260	U	100000

do not use RB 5/24/93

do not use

do not use

See footnotes on Page 4.

ANALYTICAL REPORT FOR SAMPLE No. EK4370

NON-TARGET ANALYTE RESULTS
Additional Semi-Volatiles

Field Sample ID BOOZ06

Cas. No	COMPOUND	Scan Number	Results ug/Kg	Footnotes
	********NO UNKNOWNS FOUND**********			

Do not use
RB 5/24/93

FOOTNOTES

- B The analyte was found in the method blank. The reported results have been adjusted for the quantity found in the blank.
- E The reported concentration is an estimate only. The response factor was assumed to be 1.000 relative to an internal standard.
- J Indicates an estimated concentration below the Method Detection Limit.
- K The isomer is unknown.
- N Analytical standards were not analyzed for this compound.
- U Not detected.
- W The identification is tentative or closely related to the compound.

9613424.0781

ANALYTICAL REPORT FOR SAMPLE No. EK4371 000038

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID B00Z07 Sponsor WESTINGHOUSE HANFORD CO.

File ID ZM13EK4371D Date Extracted 09/17/91 Date of Analysis 10/01/91

DataChem ID S91-0719BC

Cas. No	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
62-75-9	N-nitroso-dimethylamine	U	10000
108-95-2	phenol	U	3300
111-44-4	bis(2-chloroethyl)ether	U	3300
95-57-8	2-chlorophenol	U	3300
541-73-1	1,3-dichlorobenzene	U	3300
106-46-7	1,4-dichlorobenzene	U	3300
100-51-6	benzyl alcohol	U	10000
95-50-1	1,2-dichlorobenzene	U	3300
95-48-7	2-methylphenol	U	3300
39638-329	bis(2-chloroisopropyl)ether	U	3300
106-44-5	4-methylphenol	U	3300
621-64-7	N-nitroso-di-n-propylamine	U	3300
67-72-1	hexachloroethane	U	3300
98-95-3	nitrobenzene	U	3300
78-59-1	isophorone	U	3300
88-75-5	2-nitrophenol	U	3300
105-67-9	2,4-dimethylphenol	U	3300
111-91-1	bis(2-chloroethoxy)methane	U	3300
65-85-0	benzoic acid	U	10000
120-83-2	2,4-dichlorophenol	U	3300
120-82-1	1,2,4-trichlorobenzene	U	3300
91-20-3	naphthalene	1400.J	3300
106-47-8	4-chloroaniline	U	3300
87-68-3	hexachlorobutadiene	U	3300
59-50-7	4-chloro-3-methylphenol	U	3300
91-57-6	2-methylnaphthalene	U	3300
77-47-4	hexachlorocyclopentadiene	U	3300
88-06-2	2,4,6-trichlorophenol	U	3300
95-95-4	2,4,5-trichlorophenol	U	8000
91-58-7	2-chloronaphthalene	U	3300
88-74-4	2-nitroaniline	U	8000
131-11-3	dimethyl phthalate	U	3300
606-20-2	2,6-dinitrotoluene	U	3300
208-96-8	acenaphthylene	U	3300
99-09-2	3-nitroaniline	U	8000
83-32-9	acenaphthene	1600.J	3300
51-28-5	2,4-dinitrophenol	U	8000
100-02-7	4-nitrophenol	U	8000
132-64-9	dibenzofuran	970.J	3300

DO NOT USE RB 5/24/93

See footnotes on page 4.

ANALYTICAL REPORT FOR SAMPLE No. EK4371

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID B00Z07 Sponsor WESTINGHOUSE HANFORD CO.

Cas. No.	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)	
121-14-2	2,4-dinitrotoluene	U	3300	do not use
84-66-2	diethyl phthalate	U	3300	
7005-72-3	4-chlorophenyl-phenylether	U	3300	
86-73-7	fluorene	1700 J	3300	KB 5/24/93
100-01-6	4-nitroaniline	U	8000	
534-52-1	2-methyl-4,6-dinitrophenol	U	8000	
86-30-6	N-nitroso-diphenylamine	U	3300	
122-66-7	1,2-diphenylhydrazine	U	10000	
101-55-3	4-bromophenyl-phenylether	U	3300	
319-84-6	alpha-BHC	U J	10000	
319-85-7	beta-BHC	U J	50000	
118-74-1	hexachlorobenzene	U	3300	do not u
87-86-5	pentachlorophenol	U	8000	
58-89-9	gamma-BHC	U J	10000	
85-01-8	phenanthrene	18000.	3300	do not us
120-12-7	anthracene	2500. J	3300	
319-86-8	delta-BHC	U J	50000	
76-44-8	heptachlor	U J	50000	
84-74-2	di-n-butyl phthalate	U	3300	do not use
309-00-2	aldrin	U J	50000	
1024-57-3	heptachlor epoxide	U J	50000	
206-44-0	fluoranthene	24000.	3300	do not use
129-00-0	pyrene	18000.	3300	
959-98-8	endosulfan I	U J	50000	
72-55-9	4,4'DDE	U	50000	
60-57-1	dieldrin	U	50000	
7421-93-4	endrin aldehyde	U	50000	
72-20-8	endrin	U	50000	
72-54-8	4,4'DDD	U	50000	
33213-65-9	endosulfan II	U	50000	
85-68-7	butylbenzylphthalate	U	3300	do not use
50-29-3	4,4'DDT	U J	50000	
1031-07-8	endosulfan sulfate	U	50000	
72-43-5	p,p'-methoxychlor	U	10000	
91-94-1	3,3'-dichlorobenzidine	U	10000	
56-55-3	benzo(a)anthracene	7800.	3300	do not
117-81-7	bis(2-ethylhexyl)phthalate	U	3300	use
218-01-9	chrysene	11000.	3300	
117-84-0	di-n-octylphthalate	U	3300	

See footnotes on Page 4.

9613424.0783

ANALYTICAL REPORT FOR SAMPLE No. EK4371

000040

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID B00Z07 Sponsor WESTINGHOUSE HANFORD CO.

Cas. No.	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
205-99-2	benzo(b)fluoranthene	5800.	3300
207-08-9	benzo(k)fluoranthene	7900.	3300
50-32-8	benzo(a)pyrene	6300.	3300
193-39-5	indeno(1,2,3-cd)pyrene	5300.	3300
53-70-3	dibenzo(a,h)anthracene	U	3300
191-24-2	benzo(g,h,i)perylene	6100.	3300
53494-70-5	endrin ketone	U	10000
109-06-8	2-picoline	U	10000
62-50-0	ethyl methanesulfonate	U	10000
66-27-3	methyl methanesulfonate	U	10000
62-53-3	aniline	U	10000
98-86-2	acetophenone	U	10000
100-75-4	N-nitroso-piperidine	U	10000
122-09-8	a,a-dimethylphenethylamine	U	10000
87-65-0	2,6-dichlorophenol	U	10000
924-16-3	N-nitroso-di-n-butylamine	U	10000
95-94-3	1,2,4,5-tetrachlorobenzene	U	10000
90-13-1	1-chloronaphthalene	U	10000
608-93-5	pentachlorobenzene	U	10000
134-32-7	1-naphthylamine	U	10000
58-90-2	2,3,4,6-tetrachlorophenol	U	10000
91-59-8	2-naphthylamine	U	10000
62-44-2	phenacetin	U	10000
92-67-1	4-aminobiphenyl	U	10000
23950-58-5	pronamide (propyzamide)	U	10000
82-68-8	pentachloronitrobenzene	U	10000
92-87-5	benzidine	U	10000
60-11-7	p-dimethylaminoazobenzene	U	10000
57-97-6	7,12-dimethbenz(a)anthracene	U	10000
56-49-5	3-methylchloranthrene	U	10000
57-74-9	chlordane	U	100000
8001-35-2	toxaphene	U	100000
12674-11-2	PCB-1016	U	100000
11104-28-2	PCB-1221	U	100000
11141-16-5	PCB-1232	U	100000
53469-21-9	PCB-1242	U	100000
12672-29-6	PCB-1248	U	100000
11097-69-1	PCB-1254	U	100000
11096-82-5	PCB-1260	U	100000

do not use

do not use

do not use

RB 5/24/9

See footnotes on Page 4.

9613424.0784

ANALYTICAL REPORT FOR SAMPLE No. EK4371

000041

NON-TARGET ANALYTE RESULTS
Additional Semi-Volatiles

Field Sample ID BOOZO7

Cas. No	COMPOUND	Scan Number	Results ug/Kg	Footnotes
	NITROGEN CONTAINING PNA MW=167	1433	2700	NEW
	PNA, MW=192	1478	1800	NEW
	PNA, MW=192	1482	2400	NEW
	PNA, MW=190	1497	4600	NEW
	PNA KETONE, MW=208	1529	4300	NEW
	PNA, MW=216	1682	2800	NEW
	PNA KETONE, MW=230	1764	2400	NEW
	PNA, MW=234	1782	2200	NEW
	PNA KETONE, MW=230	1797	2400	NEW
	PNA, MW=252	2111	4400	NEW

DO NOT USE
RD 5/24/93

FOOTNOTES

B The analyte was found in the method blank. The reported results have been adjusted for the quantity found in the blank.
E The reported concentration is an estimate only. The response factor was assumed to be 1.000 relative to an internal standard.
J Indicates an estimated concentration below the Method Detection Limit.
K The isomer is unknown.
N Analytical standards were not analyzed for this compound.
U Not detected.
W The identification is tentative or closely related to the compound.

ANALYTICAL REPORT FOR SAMPLE No. EK4372

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID B00Z08 Sponsor WESTINGHOUSE HANFORD CO.

File ID ZR6EK4372D Date Extracted 09/17/91 Date of Analysis 10/03/91

DataChem ID S91-0719BC

Cas. No	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
62-75-9	N-nitroso-dimethylamine	U	20000
108-95-2	phenol	U	6600
111-44-4	bis(2-chloroethyl)ether	U	6600
95-57-8	2-chlorophenol	U	6600
541-73-1	1,3-dichlorobenzene	U	6600
106-46-7	1,4-dichlorobenzene	U	6600
100-51-6	benzyl alcohol	U	20000
95-50-1	1,2-dichlorobenzene	U	6600
95-48-7	2-methylphenol	U	6600
39638-329	bis(2-chloroisopropyl)ether	U	6600
106-44-5	4-methylphenol	U	6600
621-64-7	N-nitroso-di-n-propylamine	U	6600
67-72-1	hexachloroethane	U	6600
98-95-3	nitrobenzene	U	6600
78-59-1	isophorone	U	6600
88-75-5	2-nitrophenol	U	6600
105-67-9	2,4-dimethylphenol	U	6600
111-91-1	bis(2-chloroethoxy)methane	U	6600
65-85-0	benzoic acid	U	20000
120-83-2	2,4-dichlorophenol	U	6600
120-82-1	1,2,4-trichlorobenzene	U	6600
91-20-3	naphthalene	1200.J	6600
106-47-8	4-chloroaniline	U	6600
87-68-3	hexachlorobutadiene	U	6600
59-50-7	4-chloro-3-methylphenol	U	6600
91-57-6	2-methylnaphthalene	U	6600
77-47-4	hexachlorocyclopentadiene	U	6600
88-06-2	2,4,6-trichlorophenol	U	6600
95-95-4	2,4,5-trichlorophenol	U	1600
91-58-7	2-chloronaphthalene	U	6600
88-74-4	2-nitroaniline	U	1600
131-11-3	dimethyl phthalate	U	6600
606-20-2	2,6-dinitrotoluene	U	6600
208-96-8	acenaphthylene	U	6600
99-09-2	3-nitroaniline	U	1600
83-32-9	acenaphthene	990.J	6600
51-28-5	2,4-dinitrophenol	U	1600
100-02-7	4-nitrophenol	U	1600
132-64-9	dibenzofuran	U	6600

DO NOT USE

KB 1/24/93

See footnotes on page 4.

9613424.0786

ANALYTICAL REPORT FOR SAMPLE No. EK4372 **000043**

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZO8 Sponsor WESTINGHOUSE HANFORD CO.

Cas. No.	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
121-14-2	2,4-dinitrotoluene	U	6600
84-66-2	diethyl phthalate	U	6600
7005-72-3	4-chlorophenyl-phenylether	U	6600
86-73-7	fluorene	1200.J	6600
100-01-6	4-nitroaniline	U	16000
534-52-1	2-methyl-4,6-dinitrophenol	U	16000
86-30-6	N-nitroso-diphenylamine	U	6600
122-66-7	1,2-diphenylhydrazine	U	20000
101-55-3	4-bromophenyl-phenylether	U	6600
319-84-6	alpha-BHC	U J	20000
319-85-7	beta-BHC	U J	100000
118-74-1	hexachlorobenzene	U	6600
87-86-5	pentachlorophenol	U	1600
58-89-9	gamma-BHC	U J	100000
85-01-8	phenanthrene	7800.	6600
120-12-7	anthracene	740.J	6600
319-86-8	delta-BHC	U J	100000
76-44-8	heptachlor	U J	100000
84-74-2	di-n-butyl phthalate	U	6600
309-00-2	aldrin	U J	100000
1024-57-3	heptachlor epoxide	U J	100000
206-44-0	fluoranthene	8700.	6600
129-00-0	pyrene	7000.	6600
959-98-8	endosulfan I	U J	100000
72-55-9	4,4'DDE	U	100000
60-57-1	dieldrin	U	100000
7421-93-4	endrin aldehyde	U	100000
72-20-8	endrin	U	100000
72-54-8	4,4'DDD	U	100000
33213-65-9	endosulfan II	U	100000
85-68-7	butylbenzylphthalate	U	6600
50-29-3	4,4'DDT	U J	100000
1031-07-8	endosulfan sulfate	U	100000
72-43-5	p,p'-methoxychlor	U	20000
91-94-1	3,3'-dichlorobenzidine	U	20000
56-55-3	benzo(a)anthracene	4100.J	6600
117-81-7	bis(2-ethylhexyl)phthalate	U	6600
218-01-9	chrysene	3900.J	6600
117-84-0	di-n-octylphthalate	U	6600

Do NOT USE RB 5/24/93

See footnotes on Page 4.

ANALYTICAL REPORT FOR SAMPLE No. EK4372

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID B00Z08 Sponsor WESTINGHOUSE HANFORD CO.

Cas. No.	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
205-99-2	benzo(b)fluoranthene	3500.J	6600
207-08-9	benzo(k)fluoranthene	3500.J	6600
50-32-8	benzo(a)pyrene	2400.J	6600
193-39-5	indeno(1,2,3-cd)pyrene	U	6600
53-70-3	dibenzo(a,h)anthracene	U	6600
191-24-2	benzo(g,h,i)perylene	U	6600
53494-70-5	~~endrin ketone~~	~~UJ~~	~~20000~~
109-06-8	2-picoline	U	20000
62-50-0	ethyl methanesulfonate	U	20000
66-27-3	methyl methanesulfonate	U	20000
62-53-3	aniline	U	20000
98-86-2	acetophenone	U	20000
100-75-4	N-nitroso-piperidine	U	20000
122-09-8	a,a-dimethylphenethylamine	U	20000
87-65-0	2,6-dichlorophenol	U	20000
924-16-3	N-nitroso-di-n-butylamine	U	20000
95-94-3	1,2,4,5-tetrachlorobenzene	U	20000
90-13-1	1-chloronaphthalene	U	20000
608-93-5	pentachlorobenzene	U	20000
134-32-7	1-naphthylamine	U	20000
58-90-2	2,3,4,6-tetrachlorophenol	U	20000
91-59-8	2-naphthylamine	U	20000
62-44-2	phenacetin	U	20000
92-67-1	4-aminobiphenyl	U	20000
23950-58-5	pronamide (propyzamide)	U	20000
82-68-8	pentachloronitrobenzene	U	20000
92-87-5	benzidine	U	20000
60-11-7	p-dimethylaminoazobenzene	U	20000
57-97-6	7,12-dimethbenz(a)anthracene	U	20000
56-49-5	3-methylchloranthrene	U	20000
57-74-9	chlordane	UJ	200000
8001-35-2	toxaphene	UR	200000
12674-11-2	PCB-1016	P	200000
11104-28-2	PCB-1221	P	200000
11141-16-5	PCB-1232	P	200000
53469-21-9	PCB-1242	P	200000
12672-29-6	PCB-1248	P	200000
11097-69-1	PCB-1254	P	200000
11096-82-5	PCB-1260	P	200000

Do not use

RB 5/24/9

Do NOT USE

DO NOT USE

See footnotes on Page 4.

ANALYTICAL REPORT FOR SAMPLE No. EK4372

NON-TARGET ANALYTE RESULTS
Additional Semi-Volatiles

Field Sample ID B00Z08

Cas. No	COMPOUND	Scan Number	Results ug/Kg	Footnotes
	UNK OXY H.C.	1416	30000	NEW
	UNK POLYCYCLIC H.C.	1422	24000	NEW
	UNK POLYCYCLIC H.C.	1444	24000	NEW
	UNK OXY H.C.	1456	49000	NEW
	UNK POLYCYCLIC H.C.	1473	26000	NEW
	UNK OXY H.C.	1500	26000	NEW
	UNK OXY H.C.	1510	23000	NEW
	UNK POLYCYCLIC H.C.	1520	26000	NEW
	UNK OXY H.C.	1530	23000	NEW
	UNK CYCLIC H.C.	1547	36000	NEW

DO NOT USE

RB 5/24/93

FOOTNOTES

B The analyte was found in the method blank. The reported results have been adjusted for the quantity found in the blank.
E The reported concentration is an estimate only. The response factor was assumed to be 1.000 relative to an internal standard.
J Indicates an estimated concentration below the Method Detection Limit.
K The isomer is unknown.
N Analytical standards were not analyzed for this compound.
U Not detected.
W The identification is tentative or closely related to the compound.

9613424.0789

ANALYTICAL REPORT FOR SAMPLE No. EK4373

000046

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID B00Z09 Sponsor WESTINGHOUSE HANFORD CO.

File ID ZM15EK4373D Date Extracted 09/17/91 Date of Analysis 10/01/91

DataChem ID S91-0719BC

Cas. No	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
62-75-9	N-nitroso-dimethylamine	U	10000
108-95-2	phenol	U	3300
111-44-4	bis(2-chloroethyl)ether	U	3300
95-57-8	2-chlorophenol	U	3300
541-73-1	1,3-dichlorobenzene	U	3300
106-46-7	1,4-dichlorobenzene	U	3300
100-51-6	benzyl alcohol	U	10000
95-50-1	1,2-dichlorobenzene	U	3300
95-48-7	2-methylphenol	U	3300
39638-329	bis(2-chloroisopropyl)ether	U	3300
106-44-5	4-methylphenol	U	3300
621-64-7	N-nitroso-di-n-propylamine	U	3300
67-72-1	hexachloroethane	U	3300
98-95-3	nitrobenzene	U	3300
78-59-1	isophorone	U	3300
88-75-5	2-nitrophenol	U	3300
105-67-9	2,4-dimethylphenol	U	3300
111-91-1	bis(2-chloroethoxy)methane	U	3300
65-85-0	benzoic acid	U	10000
120-83-2	2,4-dichlorophenol	U	3300
120-82-1	1,2,4-trichlorobenzene	U	3300
91-20-3	naphthalene	6700.	3300
106-47-8	4-chloroaniline	U	3300
87-68-3	hexachlorobutadiene	U	3300
59-50-7	4-chloro-3-methylphenol	U	3300
91-57-6	2-methylnaphthalene	1800.J	3300
77-47-4	hexachlorocyclopentadiene	U	3300
88-06-2	2,4,6-trichlorophenol	U	3300
95-95-4	2,4,5-trichlorophenol	U	8000
91-58-7	2-chloronaphthalene	U	3300
88-74-4	2-nitroaniline	U	8000
131-11-3	dimethyl phthalate	U	3300
606-20-2	2,6-dinitrotoluene	U	3300
208-96-8	acenaphthylene	280.J	3300
99-09-2	3-nitroaniline	U	8000
83-32-9	acenaphthene	5900.	3300
51-28-5	2,4-dinitrophenol	U	8000
100-02-7	4-nitrophenol	U	8000
132-64-9	dibenzofuran	4100.	3300

RB 5/24/93

DO NOT USE

See footnotes on page 4.

9613424.0790

ANALYTICAL REPORT FOR SAMPLE No. EK4373 000047

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZO9 Sponsor WESTINGHOUSE HANFORD CO.

Cas. No.	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
121-14-2	2,4-dinitrotoluene	U	3300
84-66-2	diethyl phthalate	U	3300
7005-72-3	4-chlorophenyl-phenylether	U	3300
86-73-7	fluorene	6400.	3300
100-01-6	4-nitroaniline	U	8000
534-52-1	2-methyl-4,6-dinitrophenol	U	8000
86-30-6	N-nitroso-diphenylamine	U	3300
122-66-7	1,2-diphenylhydrazine	U	10000
101-55-3	4-bromophenyl-phenylether	U	3300
319-84-6	alpha.-BHC	U	10000
319-85-7	beta-BHC	U	50000
118-74-1	hexachlorobenzene	U	3300
87-86-5	pentachlorophenol	U	8000
58-89-9	gamma.-BHC	U	10000
85-01-8	phenanthrene	51000.	3300
120-12-7	anthracene	8700.	3300
319-86-8	delta-BHC	U	50000
76-44-8	heptachlor	U	50000
84-74-2	di-n-butyl phthalate	U	3300
309-00-2	aldrin	U	50000
1024-57-3	heptachlor epoxide	U	50000
206-44-0	fluoranthene	55000.	3300
129-00-0	pyrene	47000.	3300
959-98-8	endosulfan I	U	50000
72-55-9	4,4'DDE	U	50000
60-57-1	dieldrin	U	50000
7421-93-4	endrin aldehyde	U	50000
72-20-8	endrin	U	50000
72-54-8	4,4'DDD	U	50000
33213-65-9	endosulfan II	U	50000
85-68-7	butylbenzylphthalate	U	3300
50-29-3	4,4'-DDT	U	50000
1031-07-8	endosulfan sulfate	U	50000
72-43-5	p,p'-methoxychlor	U	10000
91-94-1	3,3'-dichlorobenzidine	U	10000
56-55-3	benzo(a)anthracene	23000.	3300
117-81-7	bis(2-ethylhexyl)phthalate	U	3300
218-01-9	chrysene	27000.	3300
117-84-0	di-n-octylphthalate	U	3300

DO NOT USE

DO NOT USE

DO NOT USE

DO NOT USE

DO NOT USE

do not use

do not use

RB 5/24/9

RB 5/27/93

See footnotes on Page 4.

9613424.0791

ANALYTICAL REPORT FOR SAMPLE No. EK4373

000048

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID B00Z09 Sponsor WESTINGHOUSE HANFORD CO.

Cas. No.	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
205-99-2	benzo(b)fluoranthene	19000.	3300
207-08-9	benzo(k)fluoranthene	18000.	3300
50-32-8	benzo(a)pyrene	19000.	3300
193-39-5	indeno(1,2,3-cd)pyrene	14000.	3300
53-70-3	dibenzo(a,h)anthracene	4800.	3300
191-24-2	benzo(g,h,i)perylene	17000.	3300
53494-70-5	endrin ketone	UJ	10000
109-06-8	2-picoline	U	10000
62-50-0	ethyl methanesulfonate	U	10000
66-27-3	methyl methanesulfonate	U	10000
62-53-3	aniline	U	10000
98-86-2	acetophenone	U	10000
100-75-4	N-nitroso-piperidine	U	10000
122-09-8	a,a-dimethylphenethylamine	U	10000
87-65-0	2,6-dichlorophenol	U	10000
924-16-3	N-nitroso-di-n-butylamine	U	10000
95-94-3	1,2,4,5-tetrachlorobenzene	U	10000
90-13-1	1-chloronaphthalene	U	10000
608-93-5	pentachlorobenzene	U	10000
134-32-7	1-naphthylamine	U	10000
58-90-2	2,3,4,6-tetrachlorophenol	U	10000
91-59-8	2-naphthylamine	U	10000
62-44-2	phenacetin	U	10000
92-67-1	4-aminobiphenyl	U	10000
23950-58-5	pronamide (propyzamide)	U	10000
82-68-8	pentachloronitrobenzene	U	10000
92-87-5	benzidine	U	10000
60-11-7	p-dimethylaminoazobenzene	U	10000
57-97-6	7,12-dimethbenz(a)anthracene	U	10000
56-49-5	3-methylchloranthrene	U	10000
57-74-9	chlordane	UJ	100000
8001-35-2	toxaphene	UR	100000
12674-11-2	PCB-1016	U	100000
11104-28-2	PCB-1221	U	100000
11141-16-5	PCB-1232	U	100000
53469-21-9	PCB-1242	U	100000
12672-29-6	PCB-1248	U	100000
11097-69-1	PCB-1254	U	100000
11096-82-5	PCB-1260	U	100000

DO NOT USE

DO NOT USE

DO NOT USE

KB 5/24/93

See footnotes on Page 4.

ANALYTICAL REPORT FOR SAMPLE No. EK4373

NON-TARGET ANALYTE RESULTS
Additional Semi-Volatiles

Field Sample ID B00Z09

Cas. No	COMPOUND	Scan Number	Results ug/Kg	Footnotes
	NITROGEN CONTAINING PNA, MW=167	1434	11000	NEW
	UNK BICYCLIC H.C.	1445	16000	NEW
	PNA, MW=192	1478	8200	NEW
	PNA, MW=192 PLUS MIXED SPECTRA	1483	24000	NEW
	PNA, MW=190	1498	28000	NEW
	UNK POLYCYCLIC H.C.	1531	17000	NEW
	UNK POLYCYCLIC H.C.	1549	9500	NEW
	UNK POLYCYCLIC H.C.	1560	10000	NEW
	UNK POLYCYCLIC H.C.	1644	10000	NEW
	PNA, MW=216	1683	13000	NEW

DO NOT USE

FOOTNOTES

- B The analyte was found in the method blank. The reported results have been adjusted for the quantity found in the blank.
- E The reported concentration is an estimate only. The response factor was assumed to be 1.000 relative to an internal standard.
- J Indicates an estimated concentration below the Method Detection Limit.
- K The isomer is unknown.
- N Analytical standards were not analyzed for this compound.
- U Not detected.
- W The identification is tentative or closely related to the compound.

9613424.0793

ANALYTICAL REPORT FOR SAMPLE No. EK4374

000050

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZR0 Sponsor WESTINGHOUSE HANFORD CO.

File ID ZS13EK4374D Date Extracted 09/17/91 Date of Analysis 10/04/91

DataChem ID S91-0719BC

Cas. No	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
62-75-9	N-nitroso-dimethylamine	U	10000
108-95-2	phenol	U	3300
111-44-4	bis(2-chloroethyl)ether	U	3300
95-57-8	2-chlorophenol	U	3300
541-73-1	1,3-dichlorobenzene	U	3300
106-46-7	1,4-dichlorobenzene	U	3300
100-51-6	benzyl alcohol	U	10000
95-50-1	1,2-dichlorobenzene	U	3300
95-48-7	2-methylphenol	U	3300
39638-329	bis(2-chloroisopropyl)ether	U	3300
106-44-5	4-methylphenol	U	3300
621-64-7	N-nitroso-di-n-propylamine	U	3300
67-72-1	hexachloroethane	U	3300
98-95-3	nitrobenzene	U	3300
78-59-1	isophorone	U	3300
88-75-5	2-nitrophenol	U	3300
105-67-9	2,4-dimethylphenol	U	3300
111-91-1	bis(2-chloroethoxy)methane	U	3300
65-85-0	benzoic acid	U	10000
120-83-2	2,4-dichlorophenol	U	3300
120-82-1	1,2,4-trichlorobenzene	U	3300
91-20-3	naphthalene	2200.J	3300
106-47-8	4-chloroaniline	U	3300
87-68-3	hexachlorobutadiene	U	3300
59-50-7	4-chloro-3-methylphenol	U	3300
91-57-6	2-methylnaphthalene	U	3300
77-47-4	hexachlorocyclopentadiene	U	3300
88-06-2	2,4,6-trichlorophenol	U	3300
95-95-4	2,4,5-trichlorophenol	U	8000
91-58-7	2-chloronaphthalene	U	3300
88-74-4	2-nitroaniline	U	8000
131-11-3	dimethyl phthalate	U	3300
606-20-2	2,6-dinitrotoluene	U	3300
208-96-8	acenaphthylene	U	3300
99-09-2	3-nitroaniline	U	8000
83-32-9	acenaphthene	2900.J	3300
51-28-5	2,4-dinitrophenol	U	8000
100-02-7	4-nitrophenol	U	8000
132-64-9	dibenzofuran	1800.J	3300

DO NOT USE RB 5/24/93

See footnotes on page 4.

9613424.0794

ANALYTICAL REPORT FOR SAMPLE No. EK4374

000051

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZR0 Sponsor WESTINGHOUSE HANFORD CO.

Cas. No.	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)	
121-14-2	2,4-dinitrotoluene	U	3300	
84-66-2	diethyl phthalate	U	3300	
7005-72-3	4-chlorophenyl-phenylether	U	3300	DO
86-73-7	fluorene	2300.J	3300	NOT
100-01-6	4-nitroaniline	U	8000	USE
534-52-1	2-methyl-4,6-dinitrophenol	U	8000	
86-30-6	N-nitroso-diphenylamine	U	3300	
122-66-7	1,2-diphenylhydrazine	U	10000	
101-55-3	4-bromophenyl-phenylether	U	3300	
319-84-6	alpha-BHC	UJ	10000	
319-85-7	beta-BHC	UJ	50000	
118-74-1	hexachlorobenzene	U	3300	do not use
87-86-5	pentachlorophenol	U	8000	
58-89-9	gamma.-BHC	UJ	10000	
85-01-8	phenanthrene	31000.	3300	do not use
120-12-7	anthracene	4100.	3300	
319-86-8	delta-BHC	UJ	50000	
76-44-8	heptachlor	UJ	50000	
84-74-2	di-n-butyl phthalate	U	3300	do not use
309-00-2	aldrin	UJ	50000	
1024-57-3	heptachlor epoxide	UJ	50000	
206-44-0	fluoranthene	32000.	3300	do not use
129-00-0	pyrene	29000.	3300	
959-98-8	endosulfan I	UJ	50000	
72-55-9	4,4'DDE	U	50000	
60-57-1	dieldrin	U	50000	
7421-93-4	endrin aldehyde	U	50000	
72-20-8	endrin	U	50000	
72-54-8	4,4'DDD	U	50000	
33213-65-9	endosulfan II	U	50000	
85-68-7	butylbenzylphthalate	U	3300	do not use
50-29-3	4,4'DDT	UJ	50000	
1031-07-8	endosulfan sulfate	U	50000	
72-43-5	p,p'-methoxychlor	U	10000	
91-94-1	3,3'-dichlorobenzidine	U	10000	
56-55-3	benzo(a)anthracene	12000.	3300	do not
117-81-7	bis(2-ethylhexyl)phthalate	U	3300	use
218-01-9	chrysene	16000.	3300	
117-84-0	di-n-octylphthalate	U	3300	

See footnotes on Page 4.

ANALYTICAL REPORT FOR SAMPLE No. EK4374

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZR0 Sponsor WESTINGHOUSE HANFORD CO.

Cas. No.	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
205-99-2	benzo(b)fluoranthene	11000.	3300
207-08-9	benzo(k)fluoranthene	10000.	3300
50-32-8	benzo(a)pyrene	10000.	3300
193-39-5	indeno(1,2,3-cd)pyrene	7500.	3300
53-70-3	dibenzo(a,h)anthracene	2600.J	3300
191-24-2	benzo(g,h,i)perylene	9100.	3300
53494-70-5	endrin ketone	UJ	10000
109-06-8	2-picoline	U	10000
62-50-0	ethyl methanesulfonate	U	10000
66-27-3	methyl methanesulfonate	U	10000
62-53-3	aniline	U	10000
98-86-2	acetophenone	U	10000
100-75-4	N-nitroso-piperidine	U	10000
122-09-8	a,a-dimethylphenethylamine	U	10000
87-65-0	2,6-dichlorophenol	U	10000
924-16-3	N-nitroso-di-n-butylamine	U	10000
95-94-3	1,2,4,5-tetrachlorobenzene	U	10000
90-13-1	1-chloronaphthalene	U	10000
608-93-5	pentachlorobenzene	U	10000
134-32-7	1-naphthylamine	U	10000
58-90-2	2,3,4,6-tetrachlorophenol	U	10000
91-59-8	2-naphthylamine	U	10000
62-44-2	phenacetin	U	10000
92-67-1	4-aminobiphenyl	U	10000
23950-58-5	pronamide (propyzamide)	U	10000
82-68-8	pentachloronitrobenzene	U	10000
92-87-5	benzidine	U	10000
60-11-7	p-dimethylaminoazobenzene	U	10000
57-97-6	7,12-dimethbenz(a)anthracene	U	10000
56-49-5	3-methylchloranthrene	U	10000
57-74-9	chlordane	UJ	100000
8001-35-2	toxaphene	UR	100000
12674-11-2	PCB-1016	U	100000
11104-28-2	PCB-1221	U	100000
11141-16-5	PCB-1232	U	100000
53469-21-9	PCB-1242	U	100000
12672-29-6	PCB-1248	U	100000
11097-69-1	PCB-1254	U	100000
11096-82-5	PCB-1260	U	100000

do not use

do not use

RB 5/24/93

do not use

See footnotes on Page 4.

ANALYTICAL REPORT FOR SAMPLE No. EK4374

NON-TARGET ANALYTE RESULTS
Additional Semi-Volatiles

Field Sample ID BOOZR0

Cas. No	COMPOUND	Scan Number	Results ug/Kg	Footnotes
	NITROGEN CONTAINING PNA, MW=167	1395	4200	NEW
	C1 PNA, MW=192	1437	3100	NEW
	C1 PNA, MW=192	1442	4200	NEW
	DI OXY PNA, MW=208	1489	6800	NEW
	PNA, MW=204	1540	2500	NEW
	PNA, MW=216	1640	5500	NEW
	OXY PNA, MW=230	1723	4300	NEW
	OXY PNA, MW=230	1755	4100	NEW
	PNA, MW=228	1796	3000	NEW
	PNA, MW=252	2032	12000	NEW

DO NOT USE
RB 5/24/93

FOOTNOTES

B The analyte was found in the method blank. The reported results have been adjusted for the quantity found in the blank.
E The reported concentration is an estimate only. The response factor was assumed to be 1.000 relative to an internal standard.
J Indicates an estimated concentration below the Method Detection Limit.
K The isomer is unknown.
N Analytical standards were not analyzed for this compound.
U Not detected.
W The identification is tentative or closely related to the compound.

9613424.0797

000054

ANALYTICAL REPORT FOR SAMPLE No. EK4375

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZR1 Sponsor WESTINGHOUSE HANFORD CO.

File ID ZR11EK75D Date Extracted 09/17/91 Date of Analysis 10/04/91

DataChem ID S91-0719BC

Cas. No	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
62-75-9	N-nitroso-dimethylamine	U	10000
108-95-2	phenol	U	3300
111-44-4	bis(2-chloroethyl)ether	U	3300
95-57-8	2-chlorophenol	U	3300
541-73-1	1,3-dichlorobenzene	U	3300
106-46-7	1,4-dichlorobenzene	U	3300
100-51-6	benzyl alcohol	U	10000
95-50-1	1,2-dichlorobenzene	U	3300
95-48-7	2-methylphenol	U	3300
39638-329	bis(2-chloroisopropyl)ether	U	3300
106-44-5	4-methylphenol	U	3300
621-64-7	N-nitroso-di-n-propylamine	U	3300
67-72-1	hexachloroethane	U	3300
98-95-3	nitrobenzene	U	3300
78-59-1	isophorone	U	3300
88-75-5	2-nitrophenol	U	3300
105-67-9	2,4-dimethylphenol	U	3300
111-91-1	bis(2-chloroethoxy)methane	U	3300
65-85-0	benzoic acid	U	10000
120-83-2	2,4-dichlorophenol	U	3300
120-82-1	1,2,4-trichlorobenzene	U	3300
91-20-3	naphthalene	690.J	3300
106-47-8	4-chloroaniline	U	3300
87-68-3	hexachlorobutadiene	U	3300
59-50-7	4-chloro-3-methylphenol	U	3300
91-57-6	2-methylnaphthalene	U	3300
77-47-4	hexachlorocyclopentadiene	U	3300
88-06-2	2,4,6-trichlorophenol	U	3300
95-95-4	2,4,5-trichlorophenol	U	8000
91-58-7	2-chloronaphthalene	U	3300
88-74-4	2-nitroaniline	U	8000
131-11-3	dimethyl phthalate	U	3300
606-20-2	2,6-dinitrotoluene	U	3300
208-96-8	acenaphthylene	U	3300
99-09-2	3-nitroaniline	U	8000
83-32-9	acenaphthene	U	3300
51-28-5	2,4-dinitrophenol	U	8000
100-02-7	4-nitrophenol	U	8000
132-64-9	dibenzofuran	U	3300

DO NOT USE
RB 5/24/93

See footnotes on page 4.

ANALYTICAL REPORT FOR SAMPLE No. EK4375

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZR1 Sponsor WESTINGHOUSE HANFORD CO.

Cas. No.	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
121-14-2	2,4-dinitrotoluene	U	3300
84-66-2	diethyl phthalate	11000.	3300
7005-72-3	4-chlorophenyl-phenylether	U	3300
86-73-7	fluorene	U	3300
100-01-6	4-nitroaniline	U	8000
534-52-1	2-methyl-4,6-dinitrophenol	U	8000
86-30-6	N-nitroso-diphenylamine	U	3300
122-66-7	1,2-diphenylhydrazine	U	10000
101-55-3	4-bromophenyl-phenylether	U	3300
319-84-6	alpha-BHC	UJ	10000
319-85-7	beta-BHC	UJ	50000
118-74-1	hexachlorobenzene	U	3300
87-86-5	pentachlorophenol	U	8000
58-89-9	gamma-BHC	UJ	10000
85-01-8	phenanthrene	2100.J	3300
120-12-7	anthracene	400.J	3300
319-86-8	delta-BHC	UJ	50000
76-44-8	heptachlor	UJ	50000
84-74-2	di-n-butyl phthalate	U	3300
309-00-2	aldrin	UJ	50000
1024-57-3	heptachlor epoxide	UJ	50000
206-44-0	fluoranthene	2100.J	3300
129-00-0	pyrene	1800.J	3300
959-98-8	endosulfan I	UJ	50000
72-55-9	4,4'DDE	U	50000
60-57-1	dieldrin	U	50000
7421-93-4	endrin aldehyde	U	50000
72-20-8	endrin	U	50000
72-54-8	4,4'DDD	U	50000
33213-65-9	endosulfan II	U	50000
85-68-7	butylbenzylphthalate	U	3300
50-29-3	4,4'DDT	U	50000
1031-07-8	endosulfan sulfate	U	50000
72-43-5	p,p'-methoxychlor	U	10000
91-94-1	3,3'-dichlorobenzidine	U	10000
56-55-3	benzo(a)anthracene	830.J	3300
117-81-7	bis(2-ethylhexyl)phthalate	380.J	3300
218-01-9	chrysene	1900.J	3300
117-84-0	di-n-octylphthalate	U	3300

DO NOT USE RB 5/24/93

RB 5/24/93

See footnotes on Page 4.

ANALYTICAL REPORT FOR SAMPLE No. EK4375

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZR1 Sponsor WESTINGHOUSE HANFORD CO.

Cas. No.	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
205-99-2	benzo(b)fluoranthene	640.J	3300
207-08-9	benzo(k)fluoranthene	880.J	3300
50-32-8	benzo(a)pyrene	770.J	3300
193-39-5	indeno(1,2,3-cd)pyrene	U	3300
53-70-3	dibenzo(a,h)anthracene	U	3300
191-24-2	benzo(g,h,i)perylene	U	3300
53494-70-5	endrin ketone	UJ	10000
109-06-8	2-picoline	U	10000
62-50-0	ethyl methanesulfonate	U	10000
66-27-3	methyl methanesulfonate	U	10000
62-53-3	aniline	U	10000
98-86-2	acetophenone	U	10000
100-75-4	N-nitroso-piperidine	U	10000
122-09-8	a,a-dimethylphenethylamine	U	10000
87-65-0	2,6-dichlorophenol	U	10000
924-16-3	N-nitroso-di-n-butylamine	U	10000
95-94-3	1,2,4,5-tetrachlorobenzene	U	10000
90-13-1	1-chloronaphthalene	U	10000
608-93-5	pentachlorobenzene	U	10000
134-32-7	1-naphthylamine	U	10000
58-90-2	2,3,4,6-tetrachlorophenol	U	10000
91-59-8	2-naphthylamine	U	10000
62-44-2	phenacetin	U	10000
92-67-1	4-aminobiphenyl	U	10000
23950-58-5	pronamide (propyzamide)	U	10000
82-68-8	pentachloronitrobenzene	U	10000
92-87-5	benzidine	U	10000
60-11-7	p-dimethylaminoazobenzene	U	10000
57-97-6	7,12-dimethbenz(a)anthracene	U	10000
56-49-5	3-methylchloranthrene	U	10000
57-74-9	chlordane	UJ	100000
8001-35-2	toxaphene	ZR	100000
12674-11-2	PCB-1016	P	100000
11104-28-2	PCB-1221	P	100000
11141-16-5	PCB-1232	P	100000
53469-21-9	PCB-1242	P	100000
12672-29-6	PCB-1248	P	100000
11097-69-1	PCB-1254	P	100000
11096-82-5	PCB-1260	P	100000

DO NOT USE

DO NOT USE

DO NOT USE

See footnotes on Page 4.

9613424.0800

ANALYTICAL REPORT FOR SAMPLE No. EK4375

000057

NON-TARGET ANALYTE RESULTS
Additional Semi-Volatiles

Field Sample ID BOOZR1

Cas. No	COMPOUND	Scan Number	Results ug/Kg	Footnotes
	UNK CYCLIC H.C.	1436	1900	NEW
	UNK CYCLIC H.C.	1483	2200	NEW
	UNK OXY H.C.	1502	2200	NEW
	UNK OXY H.C.	1511	1600	NEW
	UNK POLYCYCLIC H.C.	1531	1700	NEW
	UNK POLYCYCLIC H.C.	1637	2200	NEW
	UNK POLYCYCLIC H.C.	1645	2200	NEW
	UNK POLYCYCLIC H.C.	1654	1600	NEW
	UNK POLYCYCLIC H.C.	1672	2000	NEW
	UNK POLYCYCLIC H.C.	1704	2300	NEW

RB
5/24/93

FOOTNOTES

- B The analyte was found in the method blank. The reported results have been adjusted for the quantity found in the blank.
- E The reported concentration is an estimate only. The response factor was assumed to be 1.000 relative to an internal standard.
- J Indicates an estimated concentration below the Method Detection Limit.
- K The isomer is unknown.
- N Analytical standards were not analyzed for this compound.
- U Not detected.
- W The identification is tentative or closely related to the compound.

9613424.0801

ANALYTICAL REPORT FOR SAMPLE No. EK4376 000058

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZR2 Sponsor WESTINGHOUSE HANFORD CO.

File ID ZR12EK76D Date Extracted 09/17/91 Date of Analysis 10/04/91

DataChem ID S91-0719BC

Cas. No	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
62-75-9	N-nitroso-dimethylamine	U	10000
108-95-2	phenol	U	3300
111-44-4	bis(2-chloroethyl)ether	U	3300
95-57-8	2-chlorophenol	U	3300
541-73-1	1,3-dichlorobenzene	U	3300
106-46-7	1,4-dichlorobenzene	U	3300
100-51-6	benzyl alcohol	U	10000
95-50-1	1,2-dichlorobenzene	U	3300
95-48-7	2-methylphenol	U	3300
39638-329	bis(2-chloroisopropyl)ether	U	3300
106-44-5	4-methylphenol	U	3300
621-64-7	N-nitroso-di-n-propylamine	U	3300
67-72-1	hexachloroethane	U	3300
98-95-3	nitrobenzene	U	3300
78-59-1	isophorone	U	3300
88-75-5	2-nitrophenol	U	3300
105-67-9	2,4-dimethylphenol	U	3300
111-91-1	bis(2-chloroethoxy)methane	U	3300
65-85-0	benzoic acid	U	10000
120-83-2	2,4-dichlorophenol	U	3300
120-82-1	1,2,4-trichlorobenzene	U	3300
91-20-3	naphthalene	U	3300
106-47-8	4-chloroaniline	U	3300
87-68-3	hexachlorobutadiene	U	3300
59-50-7	4-chloro-3-methylphenol	U	3300
91-57-6	2-methylnaphthalene	U	3300
77-47-4	hexachlorocyclopentadiene	U	3300
88-06-2	2,4,6-trichlorophenol	U	3300
95-95-4	2,4,5-trichlorophenol	U	8000
91-58-7	2-chloronaphthalene	U	3300
88-74-4	2-nitroaniline	U	8000
131-11-3	dimethyl phthalate	U	3300
606-20-2	2,6-dinitrotoluene	U	3300
208-96-8	acenaphthylene	U	3300
99-09-2	3-nitroaniline	U	8000
83-32-9	acenaphthene	U	3300
51-28-5	2,4-dinitrophenol	U	8000
100-02-7	4-nitrophenol	U	8000
132-64-9	dibenzofuran	U	3300

NOT USED

RB 5/24/93

See footnotes on page 4.

9613424.0802

ANALYTICAL REPORT FOR SAMPLE No. EK4376

000059

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZR2 Sponsor WESTINGHOUSE HANFORD CO.

Cas. No.	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
121-14-2	2,4-dinitrotoluene	U	3300
84-66-2	diethyl phthalate	U	3300
7005-72-3	4-chlorophenyl-phenylether	U	3300
86-73-7	fluorene	U	3300
100-01-6	4-nitroaniline	U	8000
534-52-1	2-methyl-4,6-dinitrophenol	U	8000
86-30-6	N-nitroso-diphenylamine	U	3300
122-66-7	1,2-diphenylhydrazine	U	10000
101-55-3	4-bromophenyl-phenylether	U	3300
319-84-6	alpha-BHC	U J	10000
319-85-7	beta-BHC	U J	50000
118-74-1	hexachlorobenzene	U	3300
87-86-5	pentachlorophenol	U	8000
58-89-9	gamma-BHC	U J	10000
85-01-8	phenanthrene	1700 J	3300
120-12-7	anthracene	U	3300
319-86-8	delta-BHC	U J	50000
76-44-8	heptachlor	U J	50000
84-74-2	di-n-butyl phthalate	U	3300
309-00-2	aldrin	U J	50000
1024-57-3	heptachlor epoxide	U J	50000
206-44-0	fluoranthene	1300 J	3300
129-00-0	pyrene	1000 J	3300
959-98-8	endosulfan I	U	50000
72-55-9	4,4'DDE	U	50000
60-57-1	dieldrin	U	50000
7421-93-4	endrin aldehyde	U	50000
72-20-8	endrin	U	50000
72-54-8	4,4'DDD	U	50000
33213-65-9	endosulfan II	U	50000
85-68-7	butylbenzylphthalate	U	3300
50-29-3	4,4'DDT	U J	50000
1031-07-8	endosulfan sulfate	U	50000
72-43-5	p,p'-methoxychlor	U	10000
91-94-1	3,3'-dichlorobenzidine	U	10000
56-55-3	benzo(a)anthracene	U	3300
117-81-7	bis(2-ethylhexyl)phthalate	480 J	3300
218-01-9	chrysene	720 J	3300
117-84-0	di-n-octylphthalate	U	3300

DO NOT USE RB 5/24/93

DO NOT USE

DO NOT USE

DO NOT USE

DO NOT USE

DO NOT USE

See footnotes on Page 4.

ANALYTICAL REPORT FOR SAMPLE No. EK4376

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZR2 Sponsor WESTINGHOUSE HANFORD CO.

Cas. No.	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
205-99-2	benzo(b)fluoranthene	310 J	3300
207-08-9	benzo(k)fluoranthene	510 J	3300
50-32-8	benzo(a)pyrene	U	3300
193-39-5	indeno(1,2,3-cd)pyrene	U	3300
53-70-3	dibenzo(a,h)anthracene	U	3300
191-24-2	benzo(g,h,i)perylene	U	3300
53494-70-5	endrin ketone	UJ	10000
109-06-8	2-picoline	U	10000
62-50-0	ethyl methanesulfonate	U	10000
66-27-3	methyl methanesulfonate	U	10000
62-53-3	aniline	U	10000
98-86-2	acetophenone	U	10000
100-75-4	N-nitroso-piperidine	U	10000
122-09-8	a,a-dimethylphenethylamine	U	10000
87-65-0	2,6-dichlorophenol	U	10000
924-16-3	N-nitroso-di-n-butylamine	U	10000
95-94-3	1,2,4,5-tetrachlorobenzene	U	10000
90-13-1	1-chloronaphthalene	U	10000
608-93-5	pentachlorobenzene	U	10000
134-32-7	1-naphthylamine	U	10000
58-90-2	2,3,4,6-tetrachlorophenol	U	10000
91-59-8	2-naphthylamine	U	10000
62-44-2	phenacetin	U	10000
92-67-1	4-aminobiphenyl	U	10000
23950-58-5	pronamide (propyzamide)	U	10000
82-68-8	pentachloronitrobenzene	U	10000
92-87-5	benzidine	U	10000
60-11-7	p-dimethylaminoazobenzene	U	10000
57-97-6	7,12-dimethbenz(a)anthracene	U	10000
56-49-5	3-methylchloranthrene	U	10000
57-74-9	chlordane	UJ	100000
8001-35-2	toxaphene	~~UR~~	100000
12674-11-2	PCB-1016	P	100000
11104-28-2	PCB-1221	P	100000
11141-16-5	PCB-1232	P	100000
53469-21-9	PCB-1242	P	100000
12672-29-6	PCB-1248	P	100000
11097-69-1	PCB-1254	P	100000
11096-82-5	PCB-1260	P	100000

DO NOT USE

DO NOT USE

DO NOT USE

See footnotes on Page 4.

ANALYTICAL REPORT FOR SAMPLE No. EK4376

NON-TARGET ANALYTE RESULTS
Additional Semi-Volatiles

Field Sample ID BOOZR2

Cas. No	COMPOUND	Scan Number	Results ug/KG	Footnotes
	UNK POLYCYCLIC H.C.	1106	14000	NEW
	UNK POLYCYCLIC H.C.	1174	7500	NEW
	UNK POLYCYCLIC H.C.	1185	10000	NEW
	UNK POLYCYCLIC H.C.	1343	21000	NEW
	UNK POLYCYCLIC H.C.	1362	18000	NEW
	UNK POLYCYCLIC H.C.	1381	26000	NEW
	UNK POLYCYCLIC H.C.	1389	19000	NEW
	UNK POLYCYCLIC H.C.	1400	35000	NEW
	UNK POLYCYCLIC H.C.	1475	15000	NEW
	UNK POLYCYCLIC H.C.	1503	19000	NEW

DO NOT USE

RB 5/24/93

FOOTNOTES

B The analyte was found in the method blank. The reported results have been adjusted for the quantity found in the blank.
E The reported concentration is an estimate only. The response factor was assumed to be 1.000 relative to an internal standard.
J Indicates an estimated concentration below the Method Detection Limit.
K The isomer is unknown.
N Analytical standards were not analyzed for this compound.
U Not detected.
W The identification is tentative or closely related to the compound.

9613424.0805

000062

ANALYTICAL REPORT FOR SAMPLE No. EK4377

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZR3 Sponsor WESTINGHOUSE HANFORD CO.

File ID ZR10EK4377D Date Extracted 09/17/91 Date of Analysis 10/03/91

DataChem ID S91-0719BC

Cas. No	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
62-75-9	N-nitroso-dimethylamine	U	10000
108-95-2	phenol	U	3300
111-44-4	bis(2-chloroethyl)ether	U	3300
95-57-8	2-chlorophenol	U	3300
541-73-1	1,3-dichlorobenzene	U	3300
106-46-7	1,4-dichlorobenzene	U	3300
100-51-6	benzyl alcohol	U	10000
95-50-1	1,2-dichlorobenzene	U	3300
95-48-7	2-methylphenol	U	3300
39638-329	bis(2-chloroisopropyl)ether	U	3300
106-44-5	4-methylphenol	U	3300
621-64-7	N-nitroso-di-n-propylamine	U	3300
67-72-1	hexachloroethane	U	3300
98-95-3	nitrobenzene	U	3300
78-59-1	isophorone	U	3300
88-75-5	2-nitrophenol	U	3300
105-67-9	2,4-dimethylphenol	U	3300
111-91-1	bis(2-chloroethoxy)methane	U	3300
65-85-0	benzoic acid	U	10000
120-83-2	2,4-dichlorophenol	U	3300
120-82-1	1,2,4-trichlorobenzene	U	3300
91-20-3	naphthalene	U	3300
106-47-8	4-chloroaniline	U	3300
87-68-3	hexachlorobutadiene	U	3300
59-50-7	4-chloro-3-methylphenol	U	3300
91-57-6	2-methylnaphthalene	U	3300
77-47-4	hexachlorocyclopentadiene	U	3300
88-06-2	2,4,6-trichlorophenol	U	3300
95-95-4	2,4,5-trichlorophenol	U	8000
91-58-7	2-chloronaphthalene	U	3300
88-74-4	2-nitroaniline	U	8000
131-11-3	dimethyl phthalate	U	3300
606-20-2	2,6-dinitrotoluene	U	3300
208-96-8	acenaphthylene	U	3300
99-09-2	3-nitroaniline	U	8000
83-32-9	acenaphthene	U	3300
51-28-5	2,4-dinitrophenol	U	8000
100-02-7	4-nitrophenol	U	8000
132-64-9	dibenzofuran	U	3300

DO NOT USE

AB 5/24/93

See footnotes on page 4.

9613424.0806

000063

ANALYTICAL REPORT FOR SAMPLE No. EK4377

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZR3 Sponsor WESTINGHOUSE HANFORD CO.

Cas. No.	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)	
121-14-2	2,4-dinitrotoluene	U	3300	DO NOT USE
84-66-2	diethyl phthalate	U	3300	
7005-72-3	4-chlorophenyl-phenylether	U	3300	
86-73-7	fluorene	U	3300	
100-01-6	4-nitroaniline	U	8000	RB 5/24/93
534-52-1	2-methyl-4,6-dinitrophenol	U	8000	
86-30-6	N-nitroso-diphenylamine	U	3300	
122-66-7	1,2-diphenylhydrazine	U	10000	
101-55-3	4-bromophenyl-phenylether	U	3300	
319-84-6	alpha-BHC	U J	10000	
319-85-7	beta-BHC	U J	50000	
118-74-1	hexachlorobenzene	U	3300	DO NOT USE
87-86-5	pentachlorophenol	U	8000	
58-89-9	gamma-BHC	U J	10000	
85-01-8	phenanthrene	1300 J	3300	DO NOT USE
120-12-7	anthracene	U	3300	
319-86-8	delta-BHC	U J	50000	
76-44-8	heptachlor	U J	50000	
84-74-2	di-n-butyl phthalate	U	3300	DO NOT USE
309-00-2	aldrin	U J	50000	
1024-57-3	heptachlor epoxide	U J	50000	
206-44-0	fluoranthene	1300 J	3300	DO NOT USE
129-00-0	pyrene	1000 J	3300	
959-98-8	endosulfan I	U J	50000	
72-55-9	4,4'DDE	U	50000	
60-57-1	dieldrin	U	50000	
7421-93-4	endrin aldehyde	U	50000	
72-20-8	endrin	U	50000	
72-54-8	4,4'DDD	U	50000	
33213-65-9	endosulfan II	U	50000	
85-68-7	butylbenzylphthalate	U	3300	DO NOT USE
50-29-3	4,4'DDT	U J	50000	
1031-07-8	endosulfan sulfate	U	50000	
72-43-5	p,p'-methoxychlor	U	10000	
91-94-1	3,3'-dichlorobenzidine	U	10000	DO NOT USE
56-55-3	benzo(a)anthracene	310 J	3300	
117-81-7	bis(2-ethylhexyl)phthalate	280 J	3300	
218-01-9	chrysene	860 J	3300	
117-84-0	di-n-octylphthalate	U	3300	

See footnotes on Page 4.

ANALYTICAL REPORT FOR SAMPLE No. EK4377

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZR3 Sponsor WESTINGHOUSE HANFORD CO.

Cas. No.	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
	DO NOT USE		
205-99-2	benzo(b)fluoranthene	310.J	~~3300~~
207-08-9	benzo(k)fluoranthene	400.J	3300
50-32-8	benzo(a)pyrene	300.J	3300
193-39-5	indeno(1,2,3-cd)pyrene	U	3300
53-70-3	dibenzo(a,h)anthracene	U	3300
191-24-2	benzo(g,h,i)perylene	U	3300
53494-70-5	endrin ketone	UJ	10000
109-06-8	2-picoline	U	10000
62-50-0	ethyl methanesulfonate	U	10000
66-27-3	methyl methanesulfonate	U	10000
62-53-3	aniline	U	10000
98-86-2	acetophenone	U	10000
100-75-4	N-nitroso-piperidine	U	10000
122-09-8	a,a-dimethylphenethylamine	U	10000
87-65-0	2,6-dichlorophenol	U	10000
924-16-3	N-nitroso-di-n-butylamine	U	10000
95-94-3	1,2,4,5-tetrachlorobenzene	U	10000
90-13-1	1-chloronaphthalene	U	10000
608-93-5	pentachlorobenzene	U	10000
134-32-7	1-naphthylamine	U	10000
58-90-2	2,3,4,6-tetrachlorophenol	U	10000
91-59-8	2-naphthylamine	U	10000
62-44-2	phenacetin	U	10000
92-67-1	4-aminobiphenyl	U	10000
23950-58-5	pronamide (propyzamide)	U	10000
82-68-8	pentachloronitrobenzene	U	10000
92-87-5	benzidine	U	10000
60-11-7	p-dimethylaminoazobenzene	U	10000
57-97-6	7,12-dimethbenz(a)anthracene	U	10000
56-49-5	3-methylchloranthrene	U	10000
57-74-9	chlordane	UJ	100000
8001-35-2	toxaphene	UR	100000
12674-11-2	PCB-1016	P	100000
11104-28-2	PCB-1221	P	100000
11141-16-5	PCB-1232	P	100000
53469-21-9	PCB-1242	P	100000
12672-29-6	PCB-1248	P	100000
11097-69-1	PCB-1254	P	100000
11096-82-5	PCB-1260	P	100000

RB 5/24/93

DO NOT USE

DO NOT USE

See footnotes on Page 4.

ANALYTICAL REPORT FOR SAMPLE No. EK4377

NON-TARGET ANALYTE RESULTS
Additional Semi-Volatiles

Field Sample ID BOOZR3

Cas. No	COMPOUND	Scan Number	Results ug/KG	Footnotes
	UNK OXY H.C.	1821	1900	NEW
	UNK POLYCYCLIC H.C.	1830	1400	NEW

DO NOT USE
RB 5/24/93

FOOTNOTES

- B The analyte was found in the method blank. The reported results have been adjusted for the quantity found in the blank.
- E The reported concentration is an estimate only. The response factor was assumed to be 1.000 relative to an internal standard.
- J Indicates an estimated concentration below the Method Detection Limit.
- K The isomer is unknown.
- N Analytical standards were not analyzed for this compound.
- U Not detected.
- W The identification is tentative or closely related to the compound.

ANALYTICAL REPORT FOR SAMPLE No. EK4378

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZR4 Sponsor WESTINGHOUSE HANFORD CO.

File ID Z014EK4378 Date Extracted 09/17/91 Date of Analysis 10/03/91

DataChem ID S91-0719BC

Cas. No	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
62-75-9	N-nitroso-dimethylamine	U	10000
108-95-2	phenol	U	3300
111-44-4	bis(2-chloroethyl)ether	U	3300
95-57-8	2-chlorophenol	U	3300
541-73-1	1,3-dichlorobenzene	U	3300
106-46-7	1,4-dichlorobenzene	U	3300
100-51-6	benzyl alcohol	U	10000
95-50-1	1,2-dichlorobenzene	U	3300
95-48-7	2-methylphenol	U	3300
39638-329	bis(2-chloroisopropyl)ether	U	3300
106-44-5	4-methylphenol	U	3300
621-64-7	N-nitroso-di-n-propylamine	U	3300
67-72-1	hexachloroethane	U	3300
98-95-3	nitrobenzene	U	3300
78-59-1	isophorone	U	3300
88-75-5	2-nitrophenol	U	3300
105-67-9	2,4-dimethylphenol	U	3300
111-91-1	bis(2-chloroethoxy)methane	U	3300
65-85-0	benzoic acid	U	10000
120-83-2	2,4-dichlorophenol	U	3300
120-82-1	1,2,4-trichlorobenzene	U	3300
91-20-3	naphthalene	U	3300
106-47-8	4-chloroaniline	U	3300
87-68-3	hexachlorobutadiene	U	3300
59-50-7	4-chloro-3-methylphenol	U	3300
91-57-6	2-methylnaphthalene	U	3300
77-47-4	hexachlorocyclopentadiene	U	3300
88-06-2	2,4,6-trichlorophenol	U	3300
95-95-4	2,4,5-trichlorophenol	U	8000
91-58-7	2-chloronaphthalene	U	3300
88-74-4	2-nitroaniline	U	8000
131-11-3	dimethyl phthalate	U	3300
606-20-2	2,6-dinitrotoluene	U	3300
208-96-8	acenaphthylene	U	3300
99-09-2	3-nitroaniline	U	8000
83-32-9	acenaphthene	U	3300
51-28-5	2,4-dinitrophenol	U	8000
100-02-7	4-nitrophenol	U	8000
132-64-9	dibenzofuran	U	3300

NOT USE

See footnotes on page 4.

9613424.0810

ANALYTICAL REPORT FOR SAMPLE No. EK4378

000067

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZR4 Sponsor WESTINGHOUSE HANFORD CO.

Cas. No.	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
121-14-2	2,4-dinitrotoluene	U	3300
84-66-2	diethyl phthalate	U	3300
7005-72-3	4-chlorophenyl-phenylether	U	3300
86-73-7	fluorene	U	3300
100-01-6	4-nitroaniline	U	8000
534-52-1	2-methyl-4,6-dinitrophenol	U	8000
86-30-6	N-nitroso-diphenylamine	U	3300
122-66-7	1,2-diphenylhydrazine	U	10000
101-55-3	4-bromophenyl-phenylether	U	3300
319-84-6	alpha-BHC	UJ	10000
319-85-7	beta-BHC	UJ	50000
118-74-1	hexachlorobenzene	U	3300
87-86-5	pentachlorophenol	4000.J	8000
58-89-9	gamma-BHC	UJ	10000
85-01-8	phenanthrene	1000.J	3300
120-12-7	anthracene	U	3300
319-86-8	delta-BHC	UJ	50000
76-44-8	heptachlor	UJ	50000
84-74-2	di-n-butyl phthalate	U	3300
309-00-2	aldrin	UJ	50000
1024-57-3	heptachlor epoxide	UJ	50000
206-44-0	fluoranthene	800.J	3300
129-00-0	pyrene	710.J	3300
959-98-8	endosulfan I	UJ	50000
72-55-9	4,4'DDE	U	50000
60-57-1	dieldrin	U	50000
7421-93-4	endrin aldehyde	U	50000
72-20-8	endrin	U	50000
72-54-8	4,4'DDD	U	50000
33213-65-9	endosulfan II	U	50000
85-68-7	butylbenzylphthalate	U	3300
50-29-3	4,4'DDT	UJ	50000
1031-07-8	endosulfan sulfate	U	50000
72-43-5	p,p'-methoxychlor	U	10000
91-94-1	3,3'-dichlorobenzidine	U	10000
56-55-3	benzo(a)anthracene	U	3300
117-81-7	bis(2-ethylhexyl)phthalate	U	3300
218-01-9	chrysene	1200.J	3300
117-84-0	di-n-octylphthalate	U	3300

RB 5/24/95

DO NOT USE

DO NOT USE

DO NOT USE

DO NOT USE

DO NOT USE

See footnotes on Page 4.

9613424.0811

000068

ANALYTICAL REPORT FOR SAMPLE No. EK4378

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZR4 Sponsor WESTINGHOUSE HANFORD CO.

Cas. No.	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
205-99-2	benzo(b)fluoranthene	U	3300
207-08-9	benzo(k)fluoranthene	U	3300
50-32-8	benzo(a)pyrene	U	3300
193-39-5	indeno(1,2,3-cd)pyrene	U	3300
53-70-3	dibenzo(a,h)anthracene	U	3300
191-24-2	benzo(g,h,i)perylene	U	3300
53494-70-5	endrin ketone	UJ	10000
109-06-8	2-picoline	U	10000
62-50-0	ethyl methanesulfonate	U	10000
66-27-3	methyl methanesulfonate	U	10000
62-53-3	aniline	U	10000
98-86-2	acetophenone	U	10000
100-75-4	N-nitroso-piperidine	U	10000
122-09-8	a,a-dimethylphenethylamine	U	10000
87-65-0	2,6-dichlorophenol	U	10000
924-16-3	N-nitroso-di-n-butylamine	U	10000
95-94-3	1,2,4,5-tetrachlorobenzene	U	10000
90-13-1	1-chloronaphthalene	U	10000
608-93-5	pentachlorobenzene	U	10000
134-32-7	1-naphthylamine	U	10000
58-90-2	2,3,4,6-tetrachlorophenol	U	10000
91-59-8	2-naphthylamine	U	10000
62-44-2	phenacetin	U	10000
92-67-1	4-aminobiphenyl	U	10000
23950-58-5	pronamide (propyzamide)	U	10000
82-68-8	pentachloronitrobenzene	U	10000
92-87-5	benzidine	U	10000
60-11-7	p-dimethylaminoazobenzene	U	10000
57-97-6	7,12-dimethbenz(a)anthracene	U	10000
56-49-5	3-methylchloranthrene	U	10000
57-74-9	chlordane	15000 NJ	100000
8001-35-2	toxaphene	20 R	100000
12674-11-2	PCB-1016	U	100000
11104-28-2	PCB-1221	U	100000
11141-16-5	PCB-1232	U	100000
53469-21-9	PCB-1242	U	100000
12672-29-6	PCB-1248	U	100000
11097-69-1	PCB-1254	U	100000
11096-82-5	PCB-1260	U	100000

DO NOT USE RB 5/2 4/13

DO NOT USE

DO NOT USE

See footnotes on Page 4.

ANALYTICAL REPORT FOR SAMPLE No. EK4378

NON-TARGET ANALYTE RESULTS
Additional Semi-Volatiles

Field Sample ID BOOZR4

Cas. No	COMPOUND	Scan Number	Results ug/KG	Footnotes
	ALDOL CONDENSATION PRODUCT	619	1400	NEWB

DO NOT USE

AB
5/24/93

FOOTNOTES

- B The analyte was found in the method blank. The reported results have been adjusted for the quantity found in the blank.
- E The reported concentration is an estimate only. The response factor was assumed to be 1.000 relative to an internal standard.
- J Indicates an estimated concentration below the Method Detection Limit.
- K The isomer is unknown.
- N Analytical standards were not analyzed for this compound.
- U Not detected.
- W The identification is tentative or closely related to the compound.

9613424.0813

000070

ANALYTICAL REPORT FOR SAMPLE No. EK4379

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID B00ZR5 Sponsor WESTINGHOUSE HANFORD CO.

File ID Z013EK4379 Date Extracted 09/17/91 Date of Analysis 10/03/91

DataChem ID S91-0719BC

Cas. No	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
62-75-9	N-nitroso-dimethylamine	U	1000
108-95-2	phenol	U	330
111-44-4	bis(2-chloroethyl)ether	U	330
95-57-8	2-chlorophenol	U	330
541-73-1	1,3-dichlorobenzene	U	330
106-46-7	1,4-dichlorobenzene	U	330
100-51-6	benzyl alcohol	U	1000
95-50-1	1,2-dichlorobenzene	U	330
95-48-7	2-methylphenol	U	330
39638-329	bis(2-chloroisopropyl)ether	U	330
106-44-5	4-methylphenol	U	330
621-64-7	N-nitroso-di-n-propylamine	U	330
67-72-1	hexachloroethane	U	330
98-95-3	nitrobenzene	U	330
78-59-1	isophorone	U	330
88-75-5	2-nitrophenol	U	330
105-67-9	2,4-dimethylphenol	U	330
111-91-1	bis(2-chloroethoxy)methane	U	330
65-85-0	benzoic acid	U	1000
120-83-2	2,4-dichlorophenol	U	330
120-82-1	1,2,4-trichlorobenzene	U	330
91-20-3	naphthalene	24.J	330
106-47-8	4-chloroaniline	U	330
87-68-3	hexachlorobutadiene	U	330
59-50-7	4-chloro-3-methylphenol	U	330
91-57-6	2-methylnaphthalene	U	330
77-47-4	hexachlorocyclopentadiene	U	330
88-06-2	2,4,6-trichlorophenol	U	330
95-95-4	2,4,5-trichlorophenol	U	800
91-58-7	2-chloronaphthalene	U	330
88-74-4	2-nitroaniline	U	800
131-11-3	dimethyl phthalate	U	330
606-20-2	2,6-dinitrotoluene	U	330
208-96-8	acenaphthylene	20.J	330
99-09-2	3-nitroaniline	U	800
83-32-9	acenaphthene	U	330
51-28-5	2,4-dinitrophenol	U	800
100-02-7	4-nitrophenol	U	800
132-64-9	dibenzofuran	U	330

DO NOT USE

RB 5/24/93

See footnotes on page 4.

9613424.0814

ANALYTICAL REPORT FOR SAMPLE No. EK4379

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZR5 Sponsor WESTINGHOUSE HANFORD CO.

Cas. No.	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
121-14-2	2,4-dinitrotoluene	U	330
84-66-2	diethyl phthalate	170.J	330
7005-72-3	4-chlorophenyl-phenylether	U	330
86-73-7	fluorene	U	330
100-01-6	4-nitroaniline	U	800
534-52-1	2-methyl-4,6-dinitrophenol	U	800
86-30-6	N-nitroso-diphenylamine	U	330
122-66-7	1,2-diphenylhydrazine	U	1000
101-55-3	4-bromophenyl-phenylether	U	330
319-84-6	alpha-BHC	UJ	1000
319-85-7	beta-BHC	UJ	5000
118-74-1	hexachlorobenzene	U	330
87-86-5	pentachlorophenol	5100.	800
58-89-9	gamma-BHC	UJ	1000
85-01-8	phenanthrene	480.	330
120-12-7	anthracene	17.J	330
319-86-8	delta-BHC	UJ	5000
76-44-8	heptachlor	UJ	5000
84-74-2	di-n-butyl phthalate	20.J	330
309-00-2	aldrin	U	5000
1024-57-3	heptachlor epoxide	U	5000
206-44-0	fluoranthene	470.	330
129-00-0	pyrene	400.	330
959-98-8	endosulfan I	UJ	5000
72-55-9	4,4'DDE	U	5000
60-57-1	dieldrin	U	5000
7421-93-4	endrin aldehyde	U	5000
72-20-8	endrin	U	5000
72-54-8	4,4'DDD	U	5000
33213-65-9	endosulfan II	U	5000
85-68-7	butylbenzylphthalate	U	330
50-29-3	4,4'DDT	UJ	5000
1031-07-8	endosulfan sulfate	UJ	5000
72-43-5	p,p'-methoxychlor	UJ	1000
91-94-1	3,3'-dichlorobenzidine	U	1000
56-55-3	benzo(a)anthracene	81.J	330
117-81-7	bis(2-ethylhexyl)phthalate	U	330
218-01-9	chrysene	300.J	330
117-84-0	di-n-octylphthalate	U	330

RB 5/24/93

DO NOT USE

DO NOT USE

DO NOT USE

DO NOT USE

DO NOT USE

DO NOT USE

See footnotes on Page 4.

ANALYTICAL REPORT FOR SAMPLE No. EK4379

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZR5 Sponsor WESTINGHOUSE HANFORD CO.

Cas. No.	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
205-99-2	benzo(b)fluoranthene	160.J	330
207-08-9	benzo(k)fluoranthene	170.J	330
50-32-8	benzo(a)pyrene	86.J	330
193-39-5	indeno(1,2,3-cd)pyrene	U	330
53-70-3	dibenzo(a,h)anthracene	U	330
191-24-2	benzo(g,h,i)perylene	U	330
53494-70-5	endrin ketone	U	1000
109-06-8	2-picoline	U	1000
62-50-0	ethyl methanesulfonate	U	1000
66-27-3	methyl methanesulfonate	U	1000
62-53-3	aniline	U	1000
98-86-2	acetophenone	U	1000
100-75-4	N-nitroso-piperidine	U	1000
122-09-8	a,a-dimethylphenethylamine	U	1000
87-65-0	2,6-dichlorophenol	U	1000
924-16-3	N-nitroso-di-n-butylamine	U	1000
95-94-3	1,2,4,5-tetrachlorobenzene	U	1000
90-13-1	1-chloronaphthalene	U	1000
608-93-5	pentachlorobenzene	U	1000
134-32-7	1-naphthylamine	U	1000
58-90-2	2,3,4,6-tetrachlorophenol	120.J	1000
91-59-8	2-naphthylamine	U	1000
62-44-2	phenacetin	U	1000
92-67-1	4-aminobiphenyl	U	1000
23950-58-5	pronamide (propyzamide)	U	1000
82-68-8	pentachloronitrobenzene	U	1000
92-87-5	benzidine	U	1000
60-11-7	p-dimethylaminoazobenzene	U	1000
57-97-6	7,12-dimethbenz(a)anthracene	U	1000
56-49-5	3-methylchloranthrene	U	1000
57-74-9	chlordane	26000.J	10000
8001-35-2	toxaphene	TR	10000
12674-11-2	PCB-1016	U	10000
11104-28-2	PCB-1221	U	10000
11141-16-5	PCB-1232	U	10000
53469-21-9	PCB-1242	U	10000
12672-29-6	PCB-1248	U	10000
11097-69-1	PCB-1254	U	10000
11096-82-5	PCB-1260	U	10000

RB 5/24/93

DO NOT USE

DO NOT USE

DO NOT USE

See footnotes on Page 4.

ANALYTICAL REPORT FOR SAMPLE No. EK4379

NON-TARGET ANALYTE RESULTS
Additional Semi-Volatiles

Field Sample ID BOOZR5

Cas. No	COMPOUND	Scan Number	Results ug/Kg	Footnotes
	DICHLORO-ISOCYANTO BENZENE	964	360	NEW
	C1 DIBENZOTHIOPHENE	1410	200	NEW
314-40-9	2,4(1H,3H)-PYRIMIDINEDIONE, 5-BROMO	1461	310	NEW
	DI-OXY PNA, MW=208	1488	320	NEW
	C2 PHENANTHRENE	1528	200	NEW
	ALKANE @ C21	1534	340	NEW
	UNK PNA, MW=339	1562	100	NEW
	NONACHLORO-METHANO-INDENE CONGENER	1595	240	NEW
	NONACHLORO-METHANO-INDENE CONGENER	1673	120	NEW
	POLYCHLORO-METHANO-INDENE CONGENER	1688	150	NEW

DO NOT USE
RB 5/24/93

FOOTNOTES

- B The analyte was found in the method blank. The reported results have been adjusted for the quantity found in the blank.
- E The reported concentration is an estimate only. The response factor was assumed to be 1.000 relative to an internal standard.
- J Indicates an estimated concentration below the Method Detection Limit.
- K The isomer is unknown.
- N Analytical standards were not analyzed for this compound.
- U Not detected.
- W The identification is tentative or closely related to the compound.

9613424.0817

ANALYTICAL REPORT FOR SAMPLE No. EK4380

000074

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID B00ZR6 Sponsor WESTINGHOUSE HANFORD CO.

File ID AE3EK4380 Date Extracted 09/17/91 Date of Analysis 10/15/91

DataChem ID S91-0719BC

Cas. No	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
62-75-9	N-nitroso-dimethylamine	U	100000
108-95-2	phenol	U	33000
111-44-4	bis(2-chloroethyl)ether	U	33000
95-57-8	2-chlorophenol	U	33000
541-73-1	1,3-dichlorobenzene	U	33000
106-46-7	1,4-dichlorobenzene	U	33000
100-51-6	benzyl alcohol	U	100000
95-50-1	1,2-dichlorobenzene	U	33000
95-48-7	2-methylphenol	U	33000
39638-329	bis(2-chloroisopropyl)ether	U	33000
106-44-5	4-methylphenol	U	33000
621-64-7	N-nitroso-di-n-propylamine	U	33000
67-72-1	hexachloroethane	U	33000
98-95-3	nitrobenzene	U	33000
78-59-1	isophorone	U	33000
88-75-5	2-nitrophenol	U	33000
105-67-9	2,4-dimethylphenol	U	33000
111-91-1	bis(2-chloroethoxy)methane	U	33000
65-85-0	benzoic acid	U	100000
120-83-2	2,4-dichlorophenol	U	33000
120-82-1	1,2,4-trichlorobenzene	110000.	33000
91-20-3	naphthalene	U	33000
106-47-8	4-chloroaniline	U	33000
87-68-3	hexachlorobutadiene	U	33000
59-50-7	4-chloro-3-methylphenol	U	33000
91-57-6	2-methylnaphthalene	U	33000
77-47-4	hexachlorocyclopentadiene	U	33000
88-06-2	2,4,6-trichlorophenol	U	33000
95-95-4	2,4,5-trichlorophenol	U	80000
91-58-7	2-chloronaphthalene	U	33000
88-74-4	2-nitroaniline	U	80000
131-11-3	dimethyl phthalate	U	33000
606-20-2	2,6-dinitrotoluene	U	33000
208-96-8	acenaphthylene	U	33000
99-09-2	3-nitroaniline	U	80000
83-32-9	acenaphthene	U	33000
51-28-5	2,4-dinitrophenol	U	80000
100-02-7	4-nitrophenol	U	80000
132-64-9	dibenzofuran	U	33000

DO NOT USE

RVB 5/24/93

See footnotes on page 4.

ANALYTICAL REPORT FOR SAMPLE No. EK4380

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZR6 Sponsor WESTINGHOUSE HANFORD CO.

Cas. No.	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)	
121-14-2	2,4-dinitrotoluene	U	33000	DO NOT USE RB 5/24/93
84-66-2	diethyl phthalate	U	33000	
7005-72-3	4-chlorophenyl-phenylether	U	33000	
86-73-7	fluorene	U	33000	
100-01-6	4-nitroaniline	U	80000	
534-52-1	2-methyl-4,6-dinitrophenol	U	80000	
86-30-6	N-nitroso-diphenylamine	U	33000	
122-66-7	1,2-diphenylhydrazine	U	100000	
101-55-3	4-bromophenyl-phenylether	U	33000	
319-84-6	alpha-BHC	UJ	100000	
319-85-7	beta-BHC	UJ	500000	
118-74-1	hexachlorobenzene	U	33000	DO NOT USE
87-86-5	pentachlorophenol	U	80000	
58-89-9	gamma-BHC	UJ	100000	
85-01-8	phenanthrene	U	33000	DO NOT USE
120-12-7	anthracene	U	33000	
319-86-8	delta-BHC	UJ	500000	
76-44-8	heptachlor	UJ	500000	
84-74-2	di-n-butyl phthalate	U	33000	DO NOT USE
309-00-2	aldrin	UJ	500000	
1024-57-3	heptachlor epoxide	UJ	500000	
206-44-0	fluoranthene	U	33000	DO NOT USE
129-00-0	pyrene	U	33000	
959-98-8	endosulfan I	UJ	500000	
72-55-9	4,4'DDE	U	500000	
60-57-1	dieldrin	U	500000	
7421-93-4	endrin aldehyde	U	500000	
72-20-8	endrin	U	500000	
72-54-8	4,4'DDD	U	500000	
33213-65-9	endosulfan II	U	500000	
85-68-7	butylbenzylphthalate	U	33000	DO NOT USE
50-29-3	4,4'DDT	UJ	500000	
1031-07-8	endosulfan sulfate	UJ	500000	
72-43-5	p,p'-methoxychlor	UJ	100000	
91-94-1	3,3'-dichlorobenzidine	U	100000	
56-55-3	benzo(a)anthracene	U	33000	DO NOT USE
117-81-7	bis(2-ethylhexyl)phthalate	U	33000	
218-01-9	chrysene	U	33000	
117-84-0	di-n-octylphthalate	U	33000	

See footnotes on Page 4.

9613424.0819

ANALYTICAL REPORT FOR SAMPLE No. EK4380 000076

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZR6 Sponsor WESTINGHOUSE HANFORD CO.

Cas. No.	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
205-99-2	benzo(b)fluoranthene	U	33000
207-08-9	benzo(k)fluoranthene	U	33000
50-32-8	benzo(a)pyrene	U	33000
193-39-5	indeno(1,2,3-cd)pyrene	U	33000
53-70-3	dibenzo(a,h)anthracene	U	33000
191-24-2	benzo(g,h,i)perylene	U	33000
53494-70-5	endrin ketone	UJ	100000
109-06-8	2-picoline	U	100000
62-50-0	ethyl methanesulfonate	U	100000
66-27-3	methyl methanesulfonate	U	100000
62-53-3	aniline	U	100000
98-86-2	acetophenone	U	100000
100-75-4	N-nitroso-piperidine	U	100000
122-09-8	a,a-dimethylphenethylamine	U	100000
87-65-0	2,6-dichlorophenol	U	100000
924-16-3	N-nitroso-di-n-butylamine	U	100000
95-94-3	1,2,4,5-tetrachlorobenzene	54000.J	100000
90-13-1	1-chloronaphthalene	U	100000
608-93-5	pentachlorobenzene	230000.	100000
134-32-7	1-naphthylamine	U	100000
58-90-2	2,3,4,6-tetrachlorophenol	U	100000
91-59-8	2-naphthylamine	U	100000
62-44-2	phenacetin	U	100000
92-67-1	4-aminobiphenyl	U	100000
23950-58-5	pronamide (propyzamide)	U	100000
82-68-8	pentachloronitrobenzene	U	100000
92-87-5	benzidine	U	100000
60-11-7	p-dimethylaminoazobenzene	U	100000
57-97-6	7,12-dimethbenz(a)anthracene	U	100000
56-49-5	3-methylchloranthrene	U	100000
57-74-9	chlordane	UJ	1000000
8001-35-2	toxaphene	R	1000000
12674-11-2	PCB-1016	P	1000000
11104-28-2	PCB-1221	P	1000000
11141-16-5	PCB-1232	P	1000000
53469-21-9	PCB-1242	P	1000000
12672-29-6	PCB-1248	P	1000000
11097-69-1	PCB-1254	P	1000000
11096-82-5	PCB-1260	P	1000000

DO NOT USE

RB 5/24/

DO NOT USE

DO NOT USE

See footnotes on Page 4.

9613424.0820

ANALYTICAL REPORT FOR SAMPLE No. EK4380

000077

NON-TARGET ANALYTE RESULTS
Additional Semi-Volatiles

Field Sample ID BOOZR6

Cas. No	COMPOUND	Scan Number	Results ug/Kg	Footnotes
	PENTACHLORO-BIPHENYL CONGENER	1595	4.4E5	NEW
	PENTACHLORO-BIPHENYL CONGENER	1623	5.0E5	NEW
	HEXACHLORO-BIPHENYL CONGENER	1686	4.2E5	NEW
	HEXACHLORO-BIPHENYL CONGENER	1703	7.7E5	NEW
	HEXACHLORO-BIPHENYL CONGENER	1731	7.8E5	NEW
	HEXACHLORO-BIPHENYL CONGENER	1768	7.7E5	NEW
	HEPTACHLORO-BIPHENYL CONGENER	1786	1.1E6	NEW
	HEPTACHLORO-BIPHENYL CONGENER	1815	9.8E5	NEW
	HEPTACHLORO-BIPHENYL CONGENER	1850	1.7E6	NEW
	HEPTACLORO-BIPHENYL CONGENER	1891	1.1E6	NEW

DO NOT USE
RB 5/24/93

FOOTNOTES

- B The analyte was found in the method blank. The reported results have been adjusted for the quantity found in the blank.
- E The reported concentration is an estimate only. The response factor was assumed to be 1.000 relative to an internal standard.
- J Indicates an estimated concentration below the Method Detection Limit.
- K The isomer is unknown.
- N Analytical standards were not analyzed for this compound.
- U Not detected.
- W The identification is tentative or closely related to the compound.

9613424.0821

ANALYTICAL REPORT FOR SAMPLE No. EK4381

000078

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZR7 Sponsor WESTINGHOUSE HANFORD CO.

File ID Z011EK4381 Date Extracted 09/17/91 Date of Analysis 10/03/91

DataChem ID S91-0719BC

Cas. No	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
62-75-9	N-nitroso-dimethylamine	U	1000
108-95-2	phenol	U	330
111-44-4	bis(2-chloroethyl)ether	U	330
95-57-8	2-chlorophenol	U	330
541-73-1	1,3-dichlorobenzene	U	330
106-46-7	1,4-dichlorobenzene	U	330
100-51-6	benzyl alcohol	U	1000
95-50-1	1,2-dichlorobenzene	U	330
95-48-7	2-methylphenol	U	330
39638-329	bis(2-chloroisopropyl)ether	U	330
106-44-5	4-methylphenol	U	330
621-64-7	N-nitroso-di-n-propylamine	U	330
67-72-1	hexachloroethane	U	330
98-95-3	nitrobenzene	U	330
78-59-1	isophorone	U	330
88-75-5	2-nitrophenol	U	330
105-67-9	2,4-dimethylphenol	U	330
111-91-1	bis(2-chloroethoxy)methane	U	330
65-85-0	benzoic acid	91.J	1000
120-83-2	2,4-dichlorophenol	U	330
120-82-1	1,2,4-trichlorobenzene	U	330
91-20-3	naphthalene	U	330
106-47-8	4-chloroaniline	U	330
87-68-3	hexachlorobutadiene	U	330
59-50-7	4-chloro-3-methylphenol	U	330
91-57-6	2-methylnaphthalene	U	330
77-47-4	hexachlorocyclopentadiene	U	330
88-06-2	2,4,6-trichlorophenol	U	330
95-95-4	2,4,5-trichlorophenol	U	800
91-58-7	2-chloronaphthalene	U	330
88-74-4	2-nitroaniline	U	800
131-11-3	dimethyl phthalate	U	330
606-20-2	2,6-dinitrotoluene	U	330
208-96-8	acenaphthylene	U	330
99-09-2	3-nitroaniline	U	800
83-32-9	acenaphthene	U	330
51-28-5	2,4-dinitrophenol	U	800
100-02-7	4-nitrophenol	U	800
132-64-9	dibenzofuran	U	330

RB 5/24/93

DO NOT USE

See footnotes on page 4.

ANALYTICAL REPORT FOR SAMPLE No. EK4381

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZR7 Sponsor WESTINGHOUSE HANFORD CO.

Cas. No.	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
121-14-2	2,4-dinitrotoluene	U	330
84-66-2	diethyl phthalate	U	330
7005-72-3	4-chlorophenyl-phenylether	U	330
86-73-7	fluorene	U	330
100-01-6	4-nitroaniline	U	800
534-52-1	2-methyl-4,6-dinitrophenol	U	800
86-30-6	N-nitroso-diphenylamine	U	330
122-66-7	1,2-diphenylhydrazine	U	1000
101-55-3	4-bromophenyl-phenylether	U	330
319-84-6	alpha-BHC	UJ	1000
319-85-7	beta-BHC	UJ	5000
118-74-1	hexachlorobenzene	U	330
87-86-5	pentachlorophenol	U	800
58-89-9	gamma-BHC	UJ	1000
85-01-8	phenanthrene	44.J	330
120-12-7	anthracene	U	330
319-86-8	delta-BHC	UJ	5000
76-44-8	heptachlor	UJ	5000
84-74-2	~~di-n-butyl phthalate~~	U	330
309-00-2	aldrin	UJ	5000
1024-57-3	heptachlor epoxide	UJ	5000
206-44-0	fluoranthene	U	330
129-00-0	pyrene	U	330
959-98-8	endosulfan I	UJ	5000
72-55-9	4,4'DDE	U	5000
60-57-1	dieldrin	U	5000
7421-93-4	endrin aldehyde	U	5000
72-20-8	endrin	U	5000
72-54-8	4,4'DDD	U	5000
33213-65-9	endosulfan II	U	5000
85-68-7	~~butylbenzylphthalate~~	U	330
50-29-3	4,4'DDT	UJ	5000
1031-07-8	endosulfan sulfate	UJ	5000
72-43-5	p,p'-methoxychlor	UJ	1000
91-94-1	3,3'-dichlorobenzidine	U	1000
56-55-3	benzo(a)anthracene	29.J	330
117-81-7	bis(2-ethylhexyl)phthalate	U	330
218-01-9	chrysene	58.J	330
117-84-0	di-n-octylphthalate	U	330

DO NOT USE

RB 5/24/93

DO NOT USE

DO NOT USE

DO NOT USE

DO NOT USE

DO NOT USE

See footnotes on Page 4.

9613424.0823

ANALYTICAL REPORT FOR SAMPLE No. EK4381 000080

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZR7 Sponsor WESTINGHOUSE HANFORD CO.

Cas. No.	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
205-99-2	benzo(b)fluoranthene	34.J	330
207-08-9	benzo(k)fluoranthene	48.J	330
50-32-8	benzo(a)pyrene	U	330
193-39-5	indeno(1,2,3-cd)pyrene	U	330
53-70-3	dibenzo(a,h)anthracene	U	330
191-24-2	benzo(g,h,i)perylene	U	330
53494-70-5	endrin ketone	UJ	1000
109-06-8	2-picoline	U	1000
62-50-0	ethyl methanesulfonate	U	1000
66-27-3	methyl methanesulfonate	U	1000
62-53-3	aniline	U	1000
98-86-2	acetophenone	U	1000
100-75-4	N-nitroso-piperidine	U	1000
122-09-8	a,a-dimethylphenethylamine	U	1000
87-65-0	2,6-dichlorophenol	U	1000
924-16-3	N-nitroso-di-n-butylamine	U	1000
95-94-3	1,2,4,5-tetrachlorobenzene	U	1000
90-13-1	1-chloronaphthalene	U	1000
608-93-5	pentachlorobenzene	U	1000
134-32-7	1-naphthylamine	U	1000
58-90-2	2,3,4,6-tetrachlorophenol	U	1000
91-59-8	2-naphthylamine	U	1000
62-44-2	phenacetin	U	1000
92-67-1	4-aminobiphenyl	U	1000
23950-58-5	pronamide (propyzamide)	U	1000
82-68-8	pentachloronitrobenzene	U	1000
92-87-5	benzidine	U	1000
60-11-7	p-dimethylaminoazobenzene	U	1000
57-97-6	7,12-dimethbenz(a)anthracene	U	1000
56-49-5	3-methylchloranthrene	U	1000
57-74-9	chlordane	130000.J	10000
8001-35-2	toxaphene	R	10000
12674-11-2	PCB-1016	P	10000
11104-28-2	PCB-1221	P	10000
11141-16-5	PCB-1232	P	10000
53469-21-9	PCB-1242	P	10000
12672-29-6	PCB-1248	P	10000
11097-69-1	PCB-1254	P	10000
11096-82-5	PCB-1260	P	10000

DO NOT USE

DO NOT USE

RB 5/24/93

See footnotes on Page 4.

9613424.0824

ANALYTICAL REPORT FOR SAMPLE No. EK4381

000081

NON-TARGET ANALYTE RESULTS
Additional Semi-Volatiles

Field Sample ID BOOZR7

Cas. No	COMPOUND	Scan Number	Results ug/Kg	Footnotes
	POLYCHLORINATED POLYCYCLIC H.C.	1448	710	NEW
	POLYCHLORINATED POLYCYCLIC H.C.	1497	790	NEW
	POLYCHLORINATED POLYCYCLIC H.C.	1528	500	NEW
	UNK POLYCYCLIC	1540	540	NEW
	POLYCHLORINATED POLYCYCLIC H.C.	1563	830	NEW
	POLYCHLORINATED POLYCYCLIC H.C.	1596	1400	NEW
	UNK POLYCYCLIC	1616	410	NEW
	POLYCHLORINATED POLYCYCLIC H.C.	1635	250	NEW
	POLYCHLORINATED POLYCYCLIC H.C.	1689	780	NEW
	ALKANE @ C33	2174	790	NEW

DO NOT USE
RB 5/24/93

FOOTNOTES

B The analyte was found in the method blank. The reported results have been adjusted for the quantity found in the blank.
E The reported concentration is an estimate only. The response factor was assumed to be 1.000 relative to an internal standard.
J Indicates an estimated concentration below the Method Detection Limit.
K The isomer is unknown.
N Analytical standards were not analyzed for this compound.
U Not detected.
W The identification is tentative or closely related to the compound.

9613424.0825

ANALYTICAL REPORT FOR SAMPLE No. EK4382

000082

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID B00ZR8 Sponsor WESTINGHOUSE HANFORD CO.

File ID Z012EK4382 Date Extracted 09/17/91 Date of Analysis 10/03/91

DataChem ID S91-0719BC

Cas. No	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
62-75-9	N-nitroso-dimethylamine	U	1000
108-95-2	phenol	U	330
111-44-4	bis(2-chloroethyl)ether	U	330
95-57-8	2-chlorophenol	U	330
541-73-1	1,3-dichlorobenzene	U	330
106-46-7	1,4-dichlorobenzene	U	330
100-51-6	benzyl alcohol	U	1000
95-50-1	1,2-dichlorobenzene	U	330
95-48-7	2-methylphenol	U	330
39638-329	bis(2-chloroisopropyl)ether	U	330
106-44-5	4-methylphenol	U	330
621-64-7	N-nitroso-di-n-propylamine	U	330
67-72-1	hexachloroethane	U	330
98-95-3	nitrobenzene	U	330
78-59-1	isophorone	U	330
88-75-5	2-nitrophenol	U	330
105-67-9	2,4-dimethylphenol	U	330
111-91-1	bis(2-chloroethoxy)methane	U	330
65-85-0	benzoic acid	U	1000
120-83-2	2,4-dichlorophenol	U	330
120-82-1	1,2,4-trichlorobenzene	U	330
91-20-3	naphthalene	U	330
106-47-8	4-chloroaniline	U	330
87-68-3	hexachlorobutadiene	U	330
59-50-7	4-chloro-3-methylphenol	U	330
91-57-6	2-methylnaphthalene	U	330
77-47-4	hexachlorocyclopentadiene	U	330
88-06-2	2,4,6-trichlorophenol	U	330
95-95-4	2,4,5-trichlorophenol	U	800
91-58-7	2-chloronaphthalene	U	330
88-74-4	2-nitroaniline	U	800
131-11-3	dimethyl phthalate	U	330
606-20-2	2,6-dinitrotoluene	U	330
208-96-8	acenaphthylene	U	330
99-09-2	3-nitroaniline	U	800
83-32-9	acenaphthene	U	330
51-28-5	2,4-dinitrophenol	U	800
100-02-7	4-nitrophenol	U	800
132-64-9	dibenzofuran	U	330

DO NOT USE

RB 5/24/93

See footnotes on page 4.

9613424.0826

ANALYTICAL REPORT FOR SAMPLE No. EK4382

000083

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZR8 Sponsor WESTINGHOUSE HANFORD CO.

Cas. No.	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)	
121-14-2	2,4-dinitrotoluene	U	330	DO NOT USE
84-66-2	diethyl phthalate	U	330	
7005-72-3	4-chlorophenyl-phenylether	U	330	
86-73-7	fluorene	U	330	RB 5/24/93
100-01-6	4-nitroaniline	U	800	
534-52-1	2-methyl-4,6-dinitrophenol	U	800	
86-30-6	N-nitroso-diphenylamine	U	330	
122-66-7	1,2-diphenylhydrazine	U	1000	
101-55-3	4-bromophenyl-phenylether	U	330	
319-84-6	.alpha.-BHC	UJ	1000	
319-85-7	beta-BHC	UJ	5000	
118-74-1	hexachlorobenzene	U	330	DO NOT USE
87-86-5	pentachlorophenol	U	800	
58-89-9	.gamma.-BHC	UJ	1000	
85-01-8	phenanthrene	56.J	330	DO NOT USE
120-12-7	anthracene	U	330	
319-86-8	delta-BHC	UJ	5000	
76-44-8	heptachlor	UJ	5000	
84-74-2	di-n-butyl phthalate	62.J	330	DO NOT USE
309-00-2	aldrin	UJ	5000	
1024-57-3	heptachlor epoxide	UJ	5000	
206-44-0	fluoranthene	74.J	330	DO NOT USE
129-00-0	pyrene	66.J	330	
959-98-8	endosulfan I	UJ	5000	
72-55-9	4,4'DDE	U	5000	
60-57-1	dieldrin	U	5000	
7421-93-4	endrin aldehyde	U	5000	
72-20-8	endrin	U	5000	
72-54-8	4,4'DDD	U	5000	
33213-65-9	endosulfan II	U	5000	
85-68-7	butylbenzylphthalate	U	330	DO NOT USE
50-29-3	4,4'DDT	UJ	5000	
1031-07-8	endosulfan sulfate	U	5000	
72-43-5	p,p'-methoxychlor	U	1000	
91-94-1	3,3'-dichlorobenzidine	U	1000	
56-55-3	benzo(a)anthracene	U	330	DO NOT USE
117-81-7	bis(2-ethylhexyl)phthalate	U	330	
218-01-9	chrysene	37.J	330	
117-84-0	di-n-octylphthalate	U	330	

See footnotes on Page 4.

ANALYTICAL REPORT FOR SAMPLE No. EK4382

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZR8 Sponsor WESTINGHOUSE HANFORD CO.

Cas. No.	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
205-99-2	benzo(b)fluoranthene	U	330
207-08-9	benzo(k)fluoranthene	U	330
50-32-8	benzo(a)pyrene	U	330
193-39-5	indeno(1,2,3-cd)pyrene	U	330
53-70-3	dibenzo(a,h)anthracene	U	330
191-24-2	benzo(g,h,i)perylene	U	330
53494-70-5	endrin ketone	UJ	1000
109-06-8	2-picoline	U	1000
62-50-0	ethyl methanesulfonate	U	1000
66-27-3	methyl methanesulfonate	U	1000
62-53-3	aniline	U	1000
98-86-2	acetophenone	U	1000
100-75-4	N-nitroso-piperidine	U	1000
122-09-8	a,a-dimethylphenethylamine	U	1000
87-65-0	2,6-dichlorophenol	U	1000
924-16-3	N-nitroso-di-n-butylamine	U	1000
95-94-3	1,2,4,5-tetrachlorobenzene	U	1000
90-13-1	1-chloronaphthalene	U	1000
608-93-5	pentachlorobenzene	U	1000
134-32-7	1-naphthylamine	U	1000
58-90-2	2,3,4,6-tetrachlorophenol	U	1000
91-59-8	2-naphthylamine	U	1000
62-44-2	phenacetin	U	1000
92-67-1	4-aminobiphenyl	U	1000
23950-58-5	pronamide (propyzamide)	U	1000
82-68-8	pentachloronitrobenzene	U	1000
92-87-5	benzidine	U	1000
60-11-7	p-dimethylaminoazobenzene	U	1000
57-97-6	7,12-dimethbenz(a)anthracene	U	1000
56-49-5	3-methylchloranthrene	U	1000
57-74-9	chlordane	6100 J	10000
8001-35-2	toxaphene	UR	10000
12674-11-2	PCB-1016	U	10000
11104-28-2	PCB-1221	U	10000
11141-16-5	PCB-1232	U	10000
53469-21-9	PCB-1242	U	10000
12672-29-6	PCB-1248	U	10000
11097-69-1	PCB-1254	U	10000
11096-82-5	PCB-1260	U	10000

DO NOT USE

DO NOT USE

RB 5/24/93

See footnotes on Page 4.

9613424.0828

ANALYTICAL REPORT FOR SAMPLE No. EK4382

000085

NON-TARGET ANALYTE RESULTS
Additional Semi-Volatiles

Field Sample ID BOOZR8

Cas. No	COMPOUND	Scan Number	Results ug/Kg	Footnotes
57-10-3	HEXADECANOIC ACID	1449	220	NEW
	HEXANEDIOC ACID C8 ESTER	1706	160	NEW
	ALKANE @ C27	1857	400	NEW
	ALKANE @ C28	1917	170	NEW
	UNKNOWN	1963	1100	NEW
	ALKANE @ C29	1988	1100	NEW
	ALKANE @ C30	2073	140	NEW
	ALKANE @ C31	2176	920	NEW
	UNK POLYCYCLIC H.C.	2186	140	NEW
	UNKNOWN	2570	210	NEW

DO NOT USE

RB
5/24/93

FOOTNOTES

B The analyte was found in the method blank. The reported results have been adjusted for the quantity found in the blank.
E The reported concentration is an estimate only. The response factor was assumed to be 1.000 relative to an internal standard.
J Indicates an estimated concentration below the Method Detection Limit.
K The isomer is unknown.
N Analytical standards were not analyzed for this compound.
U Not detected.
W The identification is tentative or closely related to the compound.

9613424.0829

ANALYTICAL REPORT FOR SAMPLE No. EK4383

000086

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZR9 Sponsor WESTINGHOUSE HANFORD CO.

File ID ZR7EK4383D Date Extracted 09/17/91 Date of Analysis 10/03/91

DataChem ID S91-0719BC

Cas. No	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
62-75-9	N-nitroso-dimethylamine	U	50000
108-95-2	phenol	U	16500
111-44-4	bis(2-chloroethyl)ether	U	16500
95-57-8	2-chlorophenol	U	16500
541-73-1	1,3-dichlorobenzene	U	16500
106-46-7	1,4-dichlorobenzene	U	16500
100-51-6	benzyl alcohol	U	50000
95-50-1	1,2-dichlorobenzene	U	16500
95-48-7	2-methylphenol	U	16500
39638-329	bis(2-chloroisopropyl)ether	U	16500
106-44-5	4-methylphenol	U	16500
621-64-7	N-nitroso-di-n-propylamine	U	16500
67-72-1	hexachloroethane	U	16500
98-95-3	nitrobenzene	U	16500
78-59-1	isophorone	U	16500
88-75-5	2-nitrophenol	U	16500
105-67-9	2,4-dimethylphenol	U	16500
111-91-1	bis(2-chloroethoxy)methane	U	16500
65-85-0	benzoic acid	U	50000
120-83-2	2,4-dichlorophenol	U	16500
120-82-1	1,2,4-trichlorobenzene	U	16500
91-20-3	naphthalene	U	16500
106-47-8	4-chloroaniline	U	16500
87-68-3	hexachlorobutadiene	U	16500
59-50-7	4-chloro-3-methylphenol	U	16500
91-57-6	2-methylnaphthalene	U	16500
77-47-4	hexachlorocyclopentadiene	U	16500
88-06-2	2,4,6-trichlorophenol	U	16500
95-95-4	2,4,5-trichlorophenol	U	40000
91-58-7	2-chloronaphthalene	U	16500
88-74-4	2-nitroaniline	U	40000
131-11-3	dimethyl phthalate	U	16500
606-20-2	2,6-dinitrotoluene	U	16500
208-96-8	acenaphthylene	U	16500
99-09-2	3-nitroaniline	U	40000
83-32-9	acenaphthene	U	16500
51-28-5	2,4-dinitrophenol	U	40000
100-02-7	4-nitrophenol	U	40000
132-64-9	dibenzofuran	U	16500

DO NOT USE

RB 5/24/93

See footnotes on page 4.

9613424.0830

ANALYTICAL REPORT FOR SAMPLE No. EK4383 000087

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZR9 Sponsor WESTINGHOUSE HANFORD CO.

Cas. No.	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
121-14-2	2,4-dinitrotoluene	U	16500
84-66-2	diethyl phthalate	U	16500
7005-72-3	4-chlorophenyl-phenylether	U	16500
86-73-7	fluorene	U	16500
100-01-6	4-nitroaniline	U	40000
534-52-1	2-methyl-4,6-dinitrophenol	U	40000
86-30-6	N-nitroso-diphenylamine	U	16500
122-66-7	1,2-diphenylhydrazine	U	50000
101-55-3	4-bromophenyl-phenylether	U	16500
319-84-6	alpha-BHC	UJ	50000
319-85-7	beta-BHC	UJ	250000
118-74-1	hexachlorobenzene	U	16500
87-86-5	pentachlorophenol	U	40000
58-89-9	gamma-BHC	UJ	50000
85-01-8	phenanthrene	U	16500
120-12-	anthracene	U	16500
319-86-8	delta-BHC	UJ	250000
76-44-8	heptachlor	UJ	250000
84-74-2	di-n-butyl phthalate	U	16500
309-00-2	aldrin	UJ	250000
1024-57-3	heptachlor epoxide	UJ	250000
206-44-0	fluoranthene	U	16500
129-00-0	pyrene	U	16500
959-98-8	endosulfan I	UJ	250000
72-55-9	4,4'DDE	U	250000
60-57-1	dieldrin	U	250000
7421-93-4	endrin aldehyde	U	250000
72-20-8	endrin	U	250000
72-54-8	4,4'DDD	U	250000
33213-65-9	endosulfan II	U	250000
85-68-7	butylbenzylphthalate	U	16500
50-29-3	4,4'DDT	UJ	250000
1031-07-8	endosulfan sulfate	U	250000
72-43-5	p,p'-methoxychlor	U	50000
91-94-1	3,3'-dichlorobenzidine	U	50000
56-55-3	benzo(a)anthracene	U	16500
117-81-7	bis(2-ethylhexyl)phthalate	U	16500
218-01-9	chrysene	U	16500
117-84-0	di-n-octylphthalate	U	16500

DO NOT USE

DO NOT USE

DO NOT USE

DO NOT USE

DO NOT USE

DO NOT USE

DO NOT USE

RB 5/24/93

See footnotes on Page 4.

9613424.0831

000088

ANALYTICAL REPORT FOR SAMPLE No. EK4383

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZR9 Sponsor WESTINGHOUSE HANFORD CO.

Cas. No.	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
205-99-2	benzo(b)fluoranthene	U	16500
207-08-9	benzo(k)fluoranthene	U	16500
50-32-8	benzo(a)pyrene	U	16500
193-39-5	indeno(1,2,3-cd)pyrene	U	16500
53-70-3	dibenzo(a,h)anthracene	U	16500
191-24-2	benzo(g,h,i)perylene	U	16500
53494-70-5	endrin ketone	UJ	50000
109-06-8	2-picoline	U	50000
62-50-0	ethyl methanesulfonate	U	50000
66-27-3	methyl methanesulfonate	U	50000
62-53-3	aniline	U	50000
98-86-2	acetophenone	U	50000
100-75-4	N-nitroso-piperidine	U	50000
122-09-8	a,a-dimethylphenethylamine	U	50000
87-65-0	2,6-dichlorophenol	U	50000
924-16-3	N-nitroso-di-n-butylamine	U	50000
95-94-3	1,2,4,5-tetrachlorobenzene	U	50000
90-13-1	1-chloronaphthalene	U	50000
608-93-5	pentachlorobenzene	U	50000
134-32-7	1-naphthylamine	U	50000
58-90-2	2,3,4,6-tetrachlorophenol	U	50000
91-59-8	2-naphthylamine	U	50000
62-44-2	phenacetin	U	50000
92-67-1	4-aminobiphenyl	U	50000
23950-58-5	pronamide (propyzamide)	U	50000
82-68-8	pentachloronitrobenzene	U	50000
92-87-5	benzidine	U	50000
60-11-7	p-dimethylaminoazobenzene	U	50000
57-97-6	7,12-dimethbenz(a)anthracene	U	50000
56-49-5	3-methylchloranthrene	U	50000
57-74-9	chlordane	UJ	500000
8001-35-2	toxaphene	U R	500000
12674-11-2	PCB-1016	U	500000
11104-28-2	PCB-1221	U	500000
11141-16-5	PCB-1232	U	500000
53469-21-9	PCB-1242	U	500000
12672-29-6	PCB-1248	U	500000
11097-69-1	PCB-1254	U	500000
11096-82-5	PCB-1260	U	500000

DO NOT USE

RB 5/24/93

DO NOT USE

See footnotes on Page 4.

ANALYTICAL REPORT FOR SAMPLE No. EK4383

NON-TARGET ANALYTE RESULTS
Additional Semi-Volatiles

Field Sample ID BOOZR9

Cas. No	COMPOUND	Scan Number	Results ug/Kg	Footnotes
	OCTADECENE CONGENER	1275	6.4E4	NEW
	OCTADECENE CONGENER	1320	1.6E5	NEW
	UNK POLYCYCLIC H.C.	1345	5.1E4	NEW
	UNK POLYCYCLIC H.C.	1361	7.9E4	NEW
	OCTADECENE CONGENER	1397	2.0E5	NEW
	UNK POLYCYCLIC H.C.	1417	2.3E5	NEW
	UNK POLYCYCLIC H.C.	1455	1.9E5	NEW
	UNK POLYCYCLIC H.C.	1465	1.7E5	NEW
	UNK POLYCYCLIC H.C.	1483	7.5E4	NEW
	ALKANE @ C21	1547	3.9E5	NEW

DO NOT USE
RB 5/24/93

FOOTNOTES

- B The analyte was found in the method blank. The reported results have been adjusted for the quantity found in the blank.
- E The reported concentration is an estimate only. The response factor was assumed to be 1.000 relative to an internal standard.
- J Indicates an estimated concentration below the Method Detection Limit.
- K The isomer is unknown.
- N Analytical standards were not analyzed for this compound.
- U Not detected.
- W The identification is tentative or closely related to the compound.

9613424.0833

ANALYTICAL REPORT FOR SAMPLE No. EK4384 000090

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZS0 Sponsor WESTINGHOUSE HANFORD CO.

File ID ZR9EK4384D Date Extracted 09/17/91 Date of Analysis 10/03/91

DataChem ID S91-0719BC

Cas. No	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
62-75-9	N-nitroso-dimethylamine	U	10000
108-95-2	phenol	U	3300
111-44-4	bis(2-chloroethyl)ether	U	3300
95-57-8	2-chlorophenol	U	3300
541-73-1	1,3-dichlorobenzene	U	3300
106-46-7	1,4-dichlorobenzene	U	3300
100-51-6	benzyl alcohol	U	10000
95-50-1	1,2-dichlorobenzene	U	3300
95-48-7	2-methylphenol	U	3300
39638-329	bis(2-chloroisopropyl)ether	U	3300
106-44-5	4-methylphenol	U	3300
621-64-7	N-nitroso-di-n-propylamine	U	3300
67-72-1	hexachloroethane	U	3300
98-95-3	nitrobenzene	U	3300
78-59-1	isophorone	U	3300
88-75-5	2-nitrophenol	U	3300
105-67-9	2,4-dimethylphenol	U	3300
111-91-1	bis(2-chloroethoxy)methane	U	3300
65-85-0	benzoic acid	U	10000
120-83-2	2,4-dichlorophenol	U	3300
120-82-1	1,2,4-trichlorobenzene	U	3300
91-20-3	naphthalene	370 J	3300
106-47-8	4-chloroaniline	U	3300
87-68-3	hexachlorobutadiene	U	3300
59-50-7	4-chloro-3-methylphenol	U	3300
91-57-6	2-methylnaphthalene	U	3300
77-47-4	hexachlorocyclopentadiene	U	3300
88-06-2	2,4,6-trichlorophenol	U	3300
95-95-4	2,4,5-trichlorophenol	U	8000
91-58-7	2-chloronaphthalene	U	3300
88-74-4	2-nitroaniline	U	8000
131-11-3	dimethyl phthalate	U	3300
606-20-2	2,6-dinitrotoluene	U	3300
208-96-8	acenaphthylene	U	3300
99-09-2	3-nitroaniline	U	8000
83-32-9	acenaphthene	U	3300
51-28-5	2,4-dinitrophenol	U	8000
100-02-7	4-nitrophenol	U	8000
132-64-9	dibenzofuran	U	3300

DO NOT USE

RB 5/24/93

See footnotes on page 4.

9613424.0834

ANALYTICAL REPORT FOR SAMPLE No. EK4384

000091

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZS0 Sponsor WESTINGHOUSE HANFORD CO.

Cas. No.	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
121-14-2	2,4-dinitrotoluene	U	3300
84-66-2	diethyl phthalate	U	3300
7005-72-3	4-chlorophenyl-phenylether	U	3300
86-73-7	fluorene	U	3300
100-01-6	4-nitroaniline	U	8000
534-52-1	2-methyl-4,6-dinitrophenol	U	8000
86-30-6	N-nitroso-diphenylamine	U	3300
122-66-7	1,2-diphenylhydrazine	U	10000
101-55-3	4-bromophenyl-phenylether	U	3300
319-84-6	alpha-BHC	UJ	10000
319-85-7	beta-BHC	UJ	50000
118-74-1	hexachlorobenzene	U	3300
87-86-5	pentachlorophenol	U	8000
58-89-9	gamma-BHC	UJ	10000
85-01-8	phenanthrene	960.J	3300
120-12-7	anthracene	160.J	3300
319-86-8	delta-BHC	UJ	50000
76-44-8	heptachlor	UJ	50000
84-74-2	di-n-butyl phthalate	U	3300
309-00-2	aldrin	UJ	50000
1024-57-3	heptachlor epoxide	UJ	50000
206-44-0	fluoranthene	910.J	3300
129-00-0	pyrene	1000.J	3300
959-98-8	endosulfan I	UJ	50000
72-55-9	4,4'DDE	U	50000
60-57-1	dieldrin	U	50000
7421-93-4	endrin aldehyde	U	50000
72-20-8	endrin	U	50000
72-54-8	4,4'DDD	U	50000
33213-65-9	endosulfan II	U	50000
85-68-7	butylbenzylphthalate	U	3300
50-29-3	4,4'DDT	UJ	50000
1031-07-8	endosulfan sulfate	U	50000
72-43-5	p,p'-methoxychlor	U	10000
91-94-1	3,3'-dichlorobenzidine	U	10000
56-55-3	benzo(a)anthracene	490.J	3300
117-81-7	bis(2-ethylhexyl)phthalate	U	3300
218-01-9	chrysene	660.J	3300
117-84-0	di-n-octylphthalate	U	3300

DO NOT USE

RB 5/24/93

See footnotes on Page 4.

ANALYTICAL REPORT FOR SAMPLE No. EK4384

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZS0 Sponsor WESTINGHOUSE HANFORD CO.

Cas. No.	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
205-99-2	benzo(b)fluoranthene	340.J	3300
207-08-9	benzo(k)fluoranthene	500.J	3300
50-32-8	benzo(a)pyrene	490.J	3300
193-39-5	indeno(1,2,3-cd)pyrene	U	3300
53-70-3	dibenzo(a,h)anthracene	U	3300
191-24-2	benzo(g,h,i)perylene	U	3300
53494-70-5	endrin ketone	UJ	10000
109-06-8	2-picoline	U	10000
62-50-0	ethyl methanesulfonate	U	10000
66-27-3	methyl methanesulfonate	U	10000
62-53-3	aniline	U	10000
98-86-2	acetophenone	U	10000
100-75-4	N-nitroso-piperidine	U	10000
122-09-8	a,a-dimethylphenethylamine	U	10000
87-65-0	2,6-dichlorophenol	U	10000
924-16-3	N-nitroso-di-n-butylamine	U	10000
95-94-3	1,2,4,5-tetrachlorobenzene	U	10000
90-13-1	1-chloronaphthalene	U	10000
608-93-5	pentachlorobenzene	U	10000
134-32-7	1-naphthylamine	U	10000
58-90-2	2,3,4,6-tetrachlorophenol	U	10000
91-59-8	2-naphthylamine	U	10000
62-44-2	phenacetin	U	10000
92-67-1	4-aminobiphenyl	U	10000
23950-58-5	pronamide (propyzamide)	U	10000
82-68-8	pentachloronitrobenzene	U	10000
92-87-5	benzidine	U	10000
60-11-7	p-dimethylaminoazobenzene	U	10000
57-97-6	7,12-dimethbenz(a)anthracene	U	10000
56-49-5	3-methylchloranthrene	U	10000
57-74-9	chlordane	UJ	100000
8001-35-2	toxaphene	R	100000
12674-11-2	PCB-1016	P	100000
11104-28-2	PCB-1221	P	100000
11141-16-5	PCB-1232	P	100000
53469-21-9	PCB-1242	P	100000
12672-29-6	PCB-1248	P	100000
11097-69-1	PCB-1254	P	100000
11096-82-5	PCB-1260	P	100000

DO NOT USE

DO NOT USE

RB 5/24/93

See footnotes on Page 4.

ANALYTICAL REPORT FOR SAMPLE No. EK4384

NON-TARGET ANALYTE RESULTS
Additional Semi-Volatiles

Field Sample ID BOOZS0

Cas. No	COMPOUND	Scan Number	Results ug/Kg	Footnotes
	UNK OXY H.C.	1447	1100	NEW
	UNKNOWN	1457	1900	NEW
	UNK CYCLIC H.C.	1512	15000	NEW
	UNK CYCLIC H.C.	1522	1800	NEW
	UNK CYCLIC H.C.	1532	2400	NEW
	UNK CYCLIC H.C.	1540	2800	NEW
	UNK OXY H.C.	1589	2000	NEW
	UNK OXY H.C.	1580	1700	NEW
	UNK OXY H.C.	1618	1600	NEW
	UNK OXY H.C.	1636	1700	NEW

DO NOT USE

RB 5/24/93

FOOTNOTES

B The analyte was found in the method blank. The reported results have been adjusted for the quantity found in the blank.

E The reported concentration is an estimate only. The response factor was assumed to be 1.000 relative to an internal standard.

J Indicates an estimated concentration below the Method Detection Limit.

K The isomer is unknown.

N Analytical standards were not analyzed for this compound.

U Not detected.

W The identification is tentative or closely related to the compound.

9613424.0837

ANALYTICAL REPORT FOR SAMPLE No. EK4385

000094

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID B00ZS1 Sponsor WESTINGHOUSE HANFORD CO.

File ID ZR5EK4385D Date Extracted 09/17/91 Date of Analysis 10/03/91

DataChem ID S91-0719BC

Cas. No	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
62-75-9	N-nitroso-dimethylamine	U	20000
108-95-2	phenol	U	6600
111-44-4	bis(2-chloroethyl)ether	U	6600
95-57-8	2-chlorophenol	U	6600
541-73-1	1,3-dichlorobenzene	U	6600
106-46-7	1,4-dichlorobenzene	U	6600
100-51-6	benzyl alcohol	U	20000
95-50-1	1,2-dichlorobenzene	U	6600
95-48-7	2-methylphenol	U	6600
39638-329	bis(2-chloroisopropyl)ether	U	6600
106-44-5	4-methylphenol	U	6600
621-64-7	N-nitroso-di-n-propylamine	U	6600
67-72-1	hexachloroethane	U	6600
98-95-3	nitrobenzene	U	6600
78-59-1	isophorone	U	6600
88-75-5	2-nitrophenol	U	6600
105-67-9	2,4-dimethylphenol	U	6600
111-91-1	bis(2-chloroethoxy)methane	U	6600
65-85-0	benzoic acid	U	20000
120-83-2	2,4-dichlorophenol	U	6600
120-82-1	1,2,4-trichlorobenzene	U	6600
91-20-3	naphthalene	U	6600
106-47-8	4-chloroaniline	U	6600
87-68-3	hexachlorobutadiene	U	6600
59-50-7	4-chloro-3-methylphenol	U	6600
91-57-6	2-methylnaphthalene	U	6600
77-47-4	hexachlorocyclopentadiene	U	6600
88-06-2	2,4,6-trichlorophenol	U	6600
95-95-4	2,4,5-trichlorophenol	U	1600
91-58-7	2-chloronaphthalene	U	6600
88-74-4	2-nitroaniline	U	1600
131-11-3	dimethyl phthalate	U	6600
606-20-2	2,6-dinitrotoluene	U	6600
208-96-8	acenaphthylene	U	6600
99-09-2	3-nitroaniline	U	1600
83-32-9	acenaphthene	U	6600
51-28-5	2,4-dinitrophenol	U	1600
100-02-7	4-nitrophenol	U	1600
132-64-9	dibenzofuran	U	6600

RB 5/24/93

See footnotes on page 4.

9613424.0838

ANALYTICAL REPORT FOR SAMPLE No. EK4385

000095

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZS1 Sponsor WESTINGHOUSE HANFORD CO.

Cas. No.	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
121-14-2	2,4-dinitrotoluene	U	6600
84-66-2	diethyl phthalate	U	6600
7005-72-3	4-chlorophenyl-phenylether	U	6600
86-73-7	fluorene	U	6600
100-01-6	4-nitroaniline	U	16000
534-52-1	2-methyl-4,6-dinitrophenol	U	16000
86-30-6	N-nitroso-diphenylamine	U	6600
122-66-7	1,2-diphenylhydrazine	U	20000
101-55-3	4-bromophenyl-phenylether	U	6600
319-84-6	alpha-BHC	UJ	20000
319-85-7	beta-BHC	UJ	100000
118-74-1	hexachlorobenzene	U	6600
87-86-5	pentachlorophenol	U	1600
58-89-9	gamma-BHC	UJ	100000
85-01-8	phenanthrene	U	6600
120-12-7	anthracene	U	6600
319-86-8	delta-BHC	UJ	100000
76-44-8	heptachlor	UJ	100000
84-74-2	di-n-butyl phthalate	U	6600
309-00-2	aldrin	UJ	100000
1024-57-3	heptachlor epoxide	UJ	100000
206-44-0	fluoranthene	U	6600
129-00-0	pyrene	U	6600
959-98-8	endosulfan I	UJ	100000
72-55-9	4,4'DDE	U	100000
60-57-1	dieldrin	U	100000
7421-93-4	endrin aldehyde	U	100000
72-20-8	endrin	U	100000
72-54-8	4,4'DDD	U	100000
33213-65-9	endosulfan II	U	100000
85-68-7	butylbenzylphthalate	U	6600
50-29-3	4,4'DDT	UJ	100000
1031-07-8	endosulfan sulfate	U	100000
72-43-5	p,p'-methoxychlor	U	20000
91-94-1	3,3'-dichlorobenzidine	U	20000
56-55-3	benzo(a)anthracene	U	6600
117-81-7	bis(2-ethylhexyl)phthalate	U	6600
218-01-9	chrysene	U	6600
117-84-0	di-n-octylphthalate	U	6600

DO NOT USE

RB 5/24/93

See footnotes on Page 4.

9613424.0839

ANALYTICAL REPORT FOR SAMPLE No. EK4385

000096

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZS1 Sponsor WESTINGHOUSE HANFORD CO.

Cas. No.	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
205-99-2	benzo(b)fluoranthene	U	6600
207-08-9	benzo(k)fluoranthene	U	6600
50-32-8	benzo(a)pyrene	U	6600
193-39-5	indeno(1,2,3-cd)pyrene	U	6600
53-70-3	dibenzo(a,h)anthracene	U	6600
191-24-2	benzo(g,h,i)perylene	U	6600
53494-70-5	endrin ketone	U	20000
109-06-8	2-picoline	U	20000
62-50-0	ethyl methanesulfonate	U	20000
66-27-3	methyl methanesulfonate	U	20000
62-53-3	aniline	U	20000
98-86-2	acetophenone	U	20000
100-75-4	N-nitroso-piperidine	U	20000
122-09-8	a,a-dimethylphenethylamine	U	20000
87-65-0	2,6-dichlorophenol	U	20000
924-16-3	N-nitroso-di-n-butylamine	U	20000
95-94-3	1,2,4,5-tetrachlorobenzene	U	20000
90-13-1	1-chloronaphthalene	U	20000
608-93-5	pentachlorobenzene	U	20000
134-32-7	1-naphthylamine	U	20000
58-90-2	2,3,4,6-tetrachlorophenol	U	20000
91-59-8	2-naphthylamine	U	20000
62-44-2	phenacetin	U	20000
92-67-1	4-aminobiphenyl	U	20000
23950-58-5	pronamide (propyzamide)	U	20000
82-68-8	pentachloronitrobenzene	U	20000
92-87-5	benzidine	U	20000
60-11-7	p-dimethylaminoazobenzene	U	20000
57-97-6	7,12-dimethbenz(a)anthracene	U	20000
56-49-5	3-methylchloranthrene	U	20000
57-74-9	chlordane	U	200000
8001-35-2	toxaphene	U	200000
12674-11-2	PCB-1016	U	200000
11104-28-2	PCB-1221	U	200000
11141-16-5	PCB-1232	U	200000
53469-21-9	PCB-1242	U	200000
12672-29-6	PCB-1248	U	200000
11097-69-1	PCB-1254	U	200000
11096-82-5	PCB-1260	U	200000

DO NOT USE

DO NOT USE

RB 5/24/93

DO NOT USE

See footnotes on Page 4.

ANALYTICAL REPORT FOR SAMPLE No. EK4385

NON-TARGET ANALYTE RESULTS
Additional Semi-Volatiles

Field Sample ID BOOZS1

Cas. No	COMPOUND	Scan Number	Results ug/Kg	Footnotes
	ALKANE @ C15	1105	7700	NEW
	ALKANE @ C17	1252	1.5E5	NEW
	ALKANE @ C17	1295	3.0E5	NEW
	ALKANE @ C18	1328	1.5E5	NEW
	UNK CYCLIC H.C.	1347	6.1E4	NEW
	ALKANE @ C18	1369	3.9E5	NEW
	ALDEHYDE @ C19	1404	8.1E4	NEW
	ALDEHYDE @ C20	1461	7.9E4	NEW
	ALKANE @ C21	1541	1.3E5	NEW
	ALDEHYDE @ C21	1554	1.5E5	NEW

DO NOT USE

RB 5/24/93

FOOTNOTES

B The analyte was found in the method blank. The reported results have been adjusted for the quantity found in the blank.

E The reported concentration is an estimate only. The response factor was assumed to be 1.000 relative to an internal standard.

J Indicates an estimated concentration below the Method Detection Limit.

K The isomer is unknown.

N Analytical standards were not analyzed for this compound.

U Not detected.

W The identification is tentative or closely related to the compound.

9613424.0841

ANALYTICAL REPORT FOR SAMPLE No. EK4386

000098

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZS2 Sponsor WESTINGHOUSE HANFORD CO.

File ID ZR4EK4386D Date Extracted 09/17/91 Date of Analysis 10/03/91

DataChem ID S91-0719BC

Cas. No	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
62-75-9	N-nitroso-dimethylamine	U	10000
108-95-2	phenol	U	3300
111-44-4	bis(2-chloroethyl)ether	U	3300
95-57-8	2-chlorophenol	U	3300
541-73-1	1,3-dichlorobenzene	U	3300
106-46-7	1,4-dichlorobenzene	U	3300
100-51-6	benzyl alcohol	U	10000
95-50-1	1,2-dichlorobenzene	U	3300
95-48-7	2-methylphenol	U	3300
39638-329	bis(2-chloroisopropyl)ether	U	3300
106-44-5	4-methylphenol	U	3300
621-64-7	N-nitroso-di-n-propylamine	U	3300
67-72-1	hexachloroethane	U	3300
98-95-3	nitrobenzene	U	3300
78-59-1	isophorone	U	3300
88-75-5	2-nitrophenol	U	3300
105-67-9	2,4-dimethylphenol	U	3300
111-91-1	bis(2-chloroethoxy)methane	U	3300
65-85-0	benzoic acid	U	10000
120-83-2	2,4-dichlorophenol	U	3300
120-82-1	1,2,4-trichlorobenzene	U	3300
91-20-3	naphthalene	U	3300
106-47-8	4-chloroaniline	U	3300
87-68-3	hexachlorobutadiene	U	3300
59-50-7	4-chloro-3-methylphenol	U	3300
91-57-6	2-methylnaphthalene	U	3300
77-47-4	hexachlorocyclopentadiene	U	3300
88-06-2	2,4,6-trichlorophenol	U	3300
95-95-4	2,4,5-trichlorophenol	U	8000
91-58-7	2-chloronaphthalene	U	3300
88-74-4	2-nitroaniline	U	8000
131-11-3	dimethyl phthalate	U	3300
606-20-2	2,6-dinitrotoluene	U	3300
208-96-8	acenaphthylene	U	3300
99-09-2	3-nitroaniline	U	8000
83-32-9	acenaphthene	U	3300
51-28-5	2,4-dinitrophenol	U	8000
100-02-7	4-nitrophenol	U	8000
132-64-9	dibenzofuran	U	3300

DO NOT USE

RB 5/24/93

See footnotes on page 4.

9613424.0842

ANALYTICAL REPORT FOR SAMPLE No. EK4386 000099

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZS2 Sponsor WESTINGHOUSE HANFORD CO.

Cas. No.	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
121-14-2	2,4-dinitrotoluene	U	3300
84-66-2	diethyl phthalate	U	3300
7005-72-3	4-chlorophenyl-phenylether	U	3300
86-73-7	fluorene	U	3300
100-01-6	4-nitroaniline	U	8000
534-52-1	2-methyl-4,6-dinitrophenol	U	8000
86-30-6	N-nitroso-diphenylamine	U	3300
122-66-7	1,2-diphenylhydrazine	U	10000
101-55-3	4-bromophenyl-phenylether	U	3300
319-84-6	alpha-BHC	UJ	10000
319-85-7	beta-BHC	UJ	50000
118-74-1	hexachlorobenzene	U	3300
87-86-5	pentachlorophenol	U	8000
58-89-9	gamma-BHC	UJ	10000
85-01-8	phenanthrene	U	3300
120-12-7	anthracene	U	3300
319-86-8	delta-BHC	UJ	50000
76-44-8	heptachlor	UJ	50000
84-74-2	di-n-butyl phthalate	U	3300
309-00-2	aldrin	UJ	50000
1024-57-3	heptachlor epoxide	UJ	50000
206-44-0	fluoranthene	U	3300
129-00-0	pyrene	U	3300
959-98-8	endosulfan I	UJ	50000
72-55-9	4,4'DDE	U	50000
60-57-1	dieldrin	U	50000
7421-93-4	endrin aldehyde	U	50000
72-20-8	endrin	U	50000
72-54-8	4,4'DDD	U	50000
33213-65-9	endosulfan II	U	50000
85-68-7	butylbenzylphthalate	U	3300
50-29-3	4,4'DDT	UJ	50000
1031-07-8	endosulfan sulfate	UJ	50000
72-43-5	p,p'-methoxychlor	UJ	10000
91-94-1	3,3'-dichlorobenzidine	U	10000
56-55-3	benzo(a)anthracene	U	3300
117-81-7	bis(2-ethylhexyl)phthalate	U	3300
218-01-9	chrysene	U	3300
117-84-0	di-n-octylphthalate	U	3300

Do NOT USE

Do NOT USE

Do NOT USE

Do not use

Do NOT USE

Do NOT USE

RB 5/24/93

See footnotes on Page 4.

9613424.0843

000100

ANALYTICAL REPORT FOR SAMPLE No. EK4386

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZS2 Sponsor WESTINGHOUSE HANFORD CO.

Cas. No.	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
205-99-2	benzo(b)fluoranthene	U	3300
207-08-9	benzo(k)fluoranthene	U	3300
50-32-8	benzo(a)pyrene	U	3300
193-39-5	indeno(1,2,3-cd)pyrene	U	3300
53-70-3	dibenzo(a,h)anthracene	U	3300
191-24-2	benzo(g,h,i)perylene	U	3300
53494-70-5	endrin ketone	UJ	10000
109-06-8	2-picoline	U	10000
62-50-0	ethyl methanesulfonate	U	10000
66-27-3	methyl methanesulfonate	U	10000
62-53-3	aniline	U	10000
98-86-2	acetophenone	U	10000
100-75-4	N-nitroso-piperidine	U	10000
122-09-8	a,a-dimethylphenethylamine	U	10000
87-65-0	2,6-dichlorophenol	U	10000
924-16-3	N-nitroso-di-n-butylamine	U	10000
95-94-3	1,2,4,5-tetrachlorobenzene	U	10000
90-13-1	1-chloronaphthalene	U	10000
608-93-5	pentachlorobenzene	U	10000
134-32-7	1-naphthylamine	U	10000
58-90-2	2,3,4,6-tetrachlorophenol	U	10000
91-59-8	2-naphthylamine	U	10000
62-44-2	phenacetin	U	10000
92-67-1	4-aminobiphenyl	U	10000
23950-58-5	pronamide (propyzamide)	U	10000
82-68-8	pentachloronitrobenzene	U	10000
92-87-5	benzidine	U	10000
60-11-7	p-dimethylaminoazobenzene	U	10000
57-97-6	7,12-dimethbenz(a)anthracene	U	10000
56-49-5	3-methylchloranthrene	U	10000
57-74-9	chlordane	UJ	100000
8001-35-2	toxaphene	UR	100000
12674-11-2	PCB-1016	U	100000
11104-28-2	PCB-1221	U	100000
11141-16-5	PCB-1232	U	100000
53469-21-9	PCB-1242	U	100000
12672-29-6	PCB-1248	U	100000
11097-69-1	PCB-1254	U	100000
11096-82-5	PCB-1260	U	100000

DO NOT USE

DO NOT USE

RB 5/24/92

See footnotes on Page 4.

9613424.0844

ANALYTICAL REPORT FOR SAMPLE No. EK4386

NON-TARGET ANALYTE RESULTS
Additional Semi-Volatiles

Field Sample ID BOOZS2

Cas. No	COMPOUND	Scan Number	Results ug/Kg	Footnotes
	OCTADECENE CONGENER	1325	54000	NEW
	UNK CYCLIC H.C.	1352	27000	NEW
	UNK POLYCYCLIC H.C.	1381	35000	NEW
	UNK POLYCYCLIC H.C.	1403	89000	NEW
	UNK OXY H.C.	1428	41000	NEW
	UNK POLYCYCLIC H.C.	1475	30000	NEW
	UNK POLYCYCLIC H.C.	1523	26000	NEW
	UNK POLYCYCLIC H.C.	1541	23000	NEW
	ALKANE @ C21	1554	1.2E5	NEW
	UNK POLYCYCLIC H.C.	1734	13000	NEW

DO NOT USE

RB 5/24/93

FOOTNOTES

B The analyte was found in the method blank. The reported results have been adjusted for the quantity found in the blank.
E The reported concentration is an estimate only. The response factor was assumed to be 1.000 relative to an internal standard.
J Indicates an estimated concentration below the Method Detection Limit.
K The isomer is unknown.
N Analytical standards were not analyzed for this compound.
U Not detected.
W The identification is tentative or closely related to the compound.

9613424.0845

ANALYTICAL REPORT FOR SAMPLE No. EK4387

000102

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZS3 Sponsor WESTINGHOUSE HANFORD CO.

File ID PS5EK4387 Date Extracted 09/17/91 Date of Analysis 10/05/91

DataChem ID S91-0719BC

Cas. No	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
62-75-9	N-nitroso-dimethylamine	U	1000
108-95-2	phenol	U	330
111-44-4	bis(2-chloroethyl)ether	U	330
95-57-8	2-chlorophenol	U	330
541-73-1	1,3-dichlorobenzene	U	330
106-46-7	1,4-dichlorobenzene	U	330
100-51-6	benzyl alcohol	U	1000
95-50-1	1,2-dichlorobenzene	U	330
95-48-7	2-methylphenol	U	330
39638-329	bis(2-chloroisopropyl)ether	U	330
106-44-5	4-methylphenol	U	330
621-64-7	N-nitroso-di-n-propylamine	U	330
67-72-1	hexachloroethane	U	330
98-95-3	nitrobenzene	U	330
78-59-1	isophorone	U	330
88-75-5	2-nitrophenol	U	330
105-67-9	2,4-dimethylphenol	U	330
111-91-1	bis(2-chloroethoxy)methane	U	330
65-85-0	benzoic acid	U	1000
120-83-2	2,4-dichlorophenol	U	330
120-82-1	1,2,4-trichlorobenzene	U	330
91-20-3	naphthalene	750.	330
106-47-8	4-chloroaniline	U	330
87-68-3	hexachlorobutadiene	U	330
59-50-7	4-chloro-3-methylphenol	U	330
91-57-6	2-methylnaphthalene	200.J	330
77-47-4	hexachlorocyclopentadiene	U	330
88-06-2	2,4,6-trichlorophenol	U	330
95-95-4	2,4,5-trichlorophenol	U	800
91-58-7	2-chloronaphthalene	U	330
88-74-4	2-nitroaniline	U	800
131-11-3	dimethyl phthalate	U	330
606-20-2	2,6-dinitrotoluene	U	330
208-96-8	acenaphthylene	30.J	330
99-09-2	3-nitroaniline	U	800
83-32-9	acenaphthene	390.	330
51-28-5	2,4-dinitrophenol	U	800
100-02-7	4-nitrophenol	U	800
132-64-9	dibenzofuran	280.J	330

RD SP4/93

See footnotes on page 4.

9613424.0846

ANALYTICAL REPORT FOR SAMPLE No. EK4387

000103

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZS3 Sponsor WESTINGHOUSE HANFORD CO.

Cas. No.	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
121-14-2	2,4-dinitrotoluene	U	330
84-66-2	diethyl phthalate	U	330
7005-72-3	4-chlorophenyl-phenylether	U	330
86-73-7	fluorene	110.	330
100-01-6	4-nitroaniline	U	800
534-52-1	2-methyl-4,6-dinitrophenol	U	800
86-30-6	N-nitroso-diphenylamine	U	330
122-66-7	1,2-diphenylhydrazine	U	1000
101-55-3	4-bromophenyl-phenylether	U	330
319-84-6	alpha-BHC	UJ	1000
319-85-7	beta-BHC	UJ	5000
118-74-1	hexachlorobenzene	U	330
87-86-5	pentachlorophenol	U	800
58-89-9	gamma-BHC	UJ	1000
85-01-8	phenanthrene	3300.	330
120-12-7	anthracene	320.J	330
319-86-8	delta-BHC	UJ	5000
76-44-8	heptachlor	UJ	5000
84-74-2	di-n-butyl phthalate	90.J	330
309-00-2	aldrin	UJ	5000
1024-57-3	heptachlor epoxide	UJ	5000
206-44-0	fluoranthene	3200.	330
129-00-0	pyrene	2400.	330
959-98-8	endosulfan I	UJ	5000
72-55-9	4,4'DDE	U	5000
60-57-1	dieldrin	U	5000
7421-93-4	endrin aldehyde	U	5000
72-20-8	endrin	U	5000
72-54-8	4,4'DDD	U	5000
33213-65-9	endosulfan II	U	5000
85-68-7	butylbenzylphthalate	1100.	330
50-29-3	4,4'DDT	UJ	5000
1031-07-8	endosulfan sulfate	UJ	5000
72-43-5	p,p'-methoxychlor	UJ	1000
91-94-1	3,3'-dichlorobenzidine	U	1000
56-55-3	benzo(a)anthracene	1500.	330
117-81-7	bis(2-ethylhexyl)phthalate	96.J	330
218-01-9	chrysene	1400.	330
117-84-0	di-n-octylphthalate	U	330

DO NOT USE

DO NOT USE

DO NOT USE

DO NOT USE

DO NOT USE

RB 5/24/93

DO NOT USE

DO NOT USE

See footnotes on Page 4.

9613424.0847

ANALYTICAL REPORT FOR SAMPLE No. EK4387

000104

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZS3 Sponsor WESTINGHOUSE HANFORD CO.

Cas. No.	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
205-99-2	benzo(b)fluoranthene	890.	330
207-08-9	benzo(k)fluoranthene	840	330
50-32-8	benzo(a)pyrene	910.	330
193-39-5	indeno(1,2,3-cd)pyrene	680.	330
53-70-3	dibenzo(a,h)anthracene	240.J	330
191-24-2	benzo(g,h,i)perylene	700.	330
53494-70-5	endrin ketone	UJ	1000
109-06-8	2-picoline	U	1000
62-50-0	ethyl methanesulfonate	U	1000
66-27-3	methyl methanesulfonate	U	1000
62-53-3	aniline	U	1000
98-86-2	acetophenone	U	1000
100-75-4	N-nitroso-piperidine	U	1000
122-09-8	a,a-dimethylphenethylamine	U	1000
87-65-0	2,6-dichlorophenol	U	1000
924-16-3	N-nitroso-di-n-butylamine	U	1000
95-94-3	1,2,4,5-tetrachlorobenzene	U	1000
90-13-1	1-chloronaphthalene	U	1000
608-93-5	pentachlorobenzene	U	1000
134-32-7	1-naphthylamine	U	1000
58-90-2	2,3,4,6-tetrachlorophenol	U	1000
91-59-8	2-naphthylamine	U	1000
62-44-2	phenacetin	U	1000
92-67-1	4-aminobiphenyl	U	1000
23950-58-5	pronamide (propyzamide)	U	1000
82-68-8	pentachloronitrobenzene	U	1000
92-87-5	benzidine	U	1000
60-11-7	p-dimethylaminoazobenzene	U	1000
57-97-6	7,12-dimethbenz(a)anthracene	U	1000
56-49-5	3-methylchloranthrene	U	1000
57-74-9	chlordane	UJ	10000
8001-35-2	toxaphene	UJ	10000
12674-11-2	PCB-1016	P	10000
11104-28-2	PCB-1221	P	10000
11141-16-5	PCB-1232	P	10000
53469-21-9	PCB-1242	P	10000
12672-29-6	PCB-1248	P	10000
11097-69-1	PCB-1254	P	10000
11096-82-5	PCB-1260	P	10000

DO NOT USE

DO NOT USE

RB 5/24/93

DO NOT USE

See footnotes on Page 4.

ANALYTICAL REPORT FOR SAMPLE No. EK4387

NON-TARGET ANALYTE RESULTS
Additional Semi-Volatiles

Field Sample ID BOOZS3

Cas. No	COMPOUND	Scan Number	Results ug/Kg	Footnotes
230-17-1	BENZO[C]CINNOLINE	1359	240	NEW
	NITROGEN CONTAINING PNA, MW=167	1426	350	NEW
	PNA, MW=190	1491	990	NEW
	PNA, MW=204	1519	260	NEW
	DI-OXY PNA, MW=208	1523	570	NEW
	UNK POLYCYCLIC H.C.	1643	110	NEW
	PNA, MW=216	1679	560	NEW
	UNK POLYCYCLIC H.C.	2082	320	NEW
	UNK POLYCYCLIC H.C.	2332	370	NEW
	UNK POLYCYCLIC H.C.	2454	490	NEW

DO NOT USE
RB 5/24/93

FOOTNOTES

B The analyte was found in the method blank. The reported results have been adjusted for the quantity found in the blank.
E The reported concentration is an estimate only. The response factor was assumed to be 1.000 relative to an internal standard.
J Indicates an estimated concentration below the Method Detection Limit.
K The isomer is unknown.
N Analytical standards were not analyzed for this compound.
U Not detected.
W The identification is tentative or closely related to the compound.

9613424.0849

ANALYTICAL REPORT FOR SAMPLE No. EK4388

000106

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZS4 Sponsor WESTINGHOUSE HANFORD CO.

File ID ZM18EK4388 Date Extracted 09/17/91 Date of Analysis 10/01/91

DataChem ID S91-0719BC

Cas. No	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
62-75-9	N-nitroso-dimethylamine	U	1000
108-95-2	phenol	U	330
111-44-4	bis(2-chloroethyl)ether	U	330
95-57-8	2-chlorophenol	U	330
541-73-1	1,3-dichlorobenzene	U	330
106-46-7	1,4-dichlorobenzene	U	330
100-51-6	benzyl alcohol	U	1000
95-50-1	1,2-dichlorobenzene	U	330
95-48-7	2-methylphenol	U	330
39638-329	bis(2-chloroisopropyl)ether	U	330
106-44-5	4-methylphenol	U	330
621-64-7	N-nitroso-di-n-propylamine	U	330
67-72-1	hexachloroethane	U	[illegible]
98-95-3	nitrobenzene	U	330
78-59-1	isophorone	U	330
88-75-5	2-nitrophenol	U	330
105-67-9	2,4-dimethylphenol	U	330
111-91-1	bis(2-chloroethoxy)methane	U	330
65-85-0	benzoic acid	U	1000
120-83-2	2,4-dichlorophenol	U	330
120-82-1	1,2,4-trichlorobenzene	U	330
91-20-3	naphthalene	U	330
106-47-8	4-chloroaniline	U	330
87-68-3	hexachlorobutadiene	U	330
59-50-7	4-chloro-3-methylphenol	U	330
91-57-6	2-methylnaphthalene	U	330
77-47-4	hexachlorocyclopentadiene	U	330
88-06-2	2,4,6-trichlorophenol	U	330
95-95-4	2,4,5-trichlorophenol	U	800
91-58-7	2-chloronaphthalene	U	330
88-74-4	2-nitroaniline	U	800
131-11-3	dimethyl phthalate	U	330
606-20-2	2,6-dinitrotoluene	U	330
208-96-8	acenaphthylene	U	330
99-09-2	3-nitroaniline	U	800
83-32-9	acenaphthene	U	330
51-28-5	2,4-dinitrophenol	U	800
100-02-7	4-nitrophenol	U	800
132-64-9	dibenzofuran	U	330

DO NOT USE

5/4/93 RD

See footnotes on page 4.

9613424.0850

ANALYTICAL REPORT FOR SAMPLE No. EK4388

000107

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZS4 Sponsor WESTINGHOUSE HANFORD CO.

Cas. No.	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
121-14-2	2,4-dinitrotoluene	U	330
84-66-2	diethyl phthalate	U	330
7005-72-3	4-chlorophenyl-phenylether	U	330
86-73-7	fluorene	U	330
100-01-6	4-nitroaniline	U	800
534-52-1	2-methyl-4,6-dinitrophenol	U	800
86-30-6	N-nitroso-diphenylamine	U	330
122-66-7	1,2-diphenylhydrazine	U	1000
101-55-3	4-bromophenyl-phenylether	U	330
319-84-6	alpha-BHC	UJ	1000
319-85-7	beta-BHC	UJ	5000
118-74-1	hexachlorobenzene	U	330
87-86-5	pentachlorophenol	U	800
58-89-9	gamma-BHC	UJ	1000
85-01-8	phenanthrene	89.J	330
120-12-7	anthracene	83.J	330
319-86-8	delta-BHC	UJ	5000
76-44-8	heptachlor	UJ	5000
84-74-2	di-n-butyl phthalate	U	330
309-00-2	aldrin	U	5000
1024-57-3	heptachlor epoxide	U	5000
206-44-0	fluoranthene	190.J	330
129-00-0	pyrene	180.J	330
959-98-8	endosulfan I	UJ	5000
72-55-9	4,4'DDE	U	5000
60-57-1	dieldrin	U	5000
7421-93-4	endrin aldehyde	U	5000
72-20-8	endrin	U	5000
72-54-8	4,4'DDD	U	5000
33213-65-9	endosulfan II	U	5000
85-68-7	butylbenzylphthalate	U	330
50-29-3	4,4'DDT	UJ	5000
1031-07-8	endosulfan sulfate	U	5000
72-43-5	p,p'-methoxychlor	U	1000
91-94-1	3,3'-dichlorobenzidine	U	1000
56-55-3	benzo(a)anthracene	U	330
117-81-7	bis(2-ethylhexyl)phthalate	U	330
218-01-9	chrysene	160.J	330
117-84-0	di-n-octylphthalate	U	330

Do NOT USE

RB 5/24/93

See footnotes on Page 4.

ANALYTICAL REPORT FOR SAMPLE No. EK4388

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZS4 Sponsor WESTINGHOUSE HANFORD CO.

Cas. No.	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
205-99-2	benzo(b)fluoranthene	U	330
207-08-9	benzo(k)fluoranthene	U	330
50-32-8	benzo(a)pyrene	U	330
193-39-5	indeno(1,2,3-cd)pyrene	U	330
53-70-3	dibenzo(a,h)anthracene	U	330
191-24-2	benzo(g,h,i)perylene	U	330
53494-70-5	endrin ketone	U J	1000
109-06-8	2-picoline	U	1000
62-50-0	ethyl methanesulfonate	U	1000
66-27-3	methyl methanesulfonate	U	1000
62-53-3	aniline	U	1000
98-86-2	acetophenone	U	1000
100-75-4	N-nitroso-piperidine	U	1000
122-09-8	a,a-dimethylphenethylamine	U	1000
87-65-0	2,6-dichlorophenol	U	1000
924-16-3	N-nitroso-di-n-butylamine	U	1000
95-94-3	1,2,4,5-tetrachlorobenzene	U	1000
90-13-1	1-chloronaphthalene	U	1000
608-93-5	pentachlorobenzene	U	1000
134-32-7	1-naphthylamine	U	1000
58-90-2	2,3,4,6-tetrachlorophenol	U	1000
91-59-8	2-naphthylamine	U	1000
62-44-2	phenacetin	U	1000
92-67-1	4-aminobiphenyl	U	1000
23950-58-5	pronamide (propyzamide)	U	1000
82-68-8	pentachloronitrobenzene	U	1000
92-87-5	benzidine	U	1000
60-11-7	p-dimethylaminoazobenzene	U	1000
57-97-6	7,12-dimethbenz(a)anthracene	U	1000
56-49-5	3-methylchloranthrene	U	1000
57-74-9	chlordane	U J	10000
8001-35-2	toxaphene	U J R	10000
12674-11-2	PCB-1016	U	10000
11104-28-2	PCB-1221	U	10000
11141-16-5	PCB-1232	U	10000
53469-21-9	PCB-1242	U	10000
12672-29-6	PCB-1248	U	10000
11097-69-1	PCB-1254	U	10000
11096-82-5	PCB-1260	U	10000

DO NOT USE

DO NOT USE

RB 5/24/94

DO NOT USE

See footnotes on Page 4.

ANALYTICAL REPORT FOR SAMPLE No. EK4388

NON-TARGET ANALYTE RESULTS
Additional Semi-Volatiles

Field Sample ID BOOZS4

Cas. No	COMPOUND	Scan Number	Results ug/Kg	Footnotes
	ALDOL CONDENSATION PRODUCT	552	400	NEWB
	ALDOL CONDENSATION PRODUCT	594	1400	NEWB
	HEXANEDIOIC ACID, C8 ESTER	1744	440	NEW

DO NOT USE
RB 5/24/93

FOOTNOTES

- B The analyte was found in the method blank. The reported results have been adjusted for the quantity found in the blank.
- E The reported concentration is an estimate only. The response factor was assumed to be 1.000 relative to an internal standard.
- J Indicates an estimated concentration below the Method Detection Limit.
- K The isomer is unknown.
- N Analytical standards were not analyzed for this compound.
- U Not detected.
- W The identification is tentative or closely related to the compound.

9613424.0853

000110

ANALYTICAL REPORT FOR SAMPLE No. EK4389

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZS5 Sponsor WESTINGHOUSE HANFORD CO.

File ID Z010EK4389 Date Extracted 09/17/91 Date of Analysis 10/03/91

DataChem ID S91-0719BC

Cas. No	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
62-75-9	N-nitroso-dimethylamine	U	1000
108-95-2	phenol	U	330
111-44-4	bis(2-chloroethyl)ether	U	330
95-57-8	2-chlorophenol	U	330
541-73-1	1,3-dichlorobenzene	U	330
106-46-7	1,4-dichlorobenzene	U	330
100-51-6	benzyl alcohol	U	1000
95-50-1	1,2-dichlorobenzene	U	330
95-48-7	2-methylphenol	U	330
39638-329	bis(2-chloroisopropyl)ether	U	330
106-44-5	4-methylphenol	U	330
621-64-7	N-nitroso-di-n-propylamine	U	330
67-72-1	hexachloroethane	U	330
98-95-3	nitrobenzene	U	330
78-59-1	isophorone	U	330
88-75-5	2-nitrophenol	U	330
105-67-9	2,4-dimethylphenol	U	330
111-91-1	bis(2-chloroethoxy)methane	U	330
65-85-0	benzoic acid	U	1000
120-83-2	2,4-dichlorophenol	U	330
120-82-1	1,2,4-trichlorobenzene	U	330
91-20-3	naphthalene	U	330
106-47-8	4-chloroaniline	U	330
87-68-3	hexachlorobutadiene	U	330
59-50-7	4-chloro-3-methylphenol	U	330
91-57-6	2-methylnaphthalene	U	330
77-47-4	hexachlorocyclopentadiene	U	330
88-06-2	2,4,6-trichlorophenol	U	330
95-95-4	2,4,5-trichlorophenol	U	800
91-58-7	2-chloronaphthalene	U	330
88-74-4	2-nitroaniline	U	800
131-11-3	dimethyl phthalate	U	330
606-20-2	2,6-dinitrotoluene	U	330
208-96-8	acenaphthylene	U	330
99-09-2	3-nitroaniline	U	800
83-32-9	acenaphthene	27.J	330
51-28-5	2,4-dinitrophenol	U	800
100-02-7	4-nitrophenol	U	800
132-64-9	dibenzofuran	U	330

RB 5/24/93

DO NOT USE

See footnotes on page 4.

9613424.0854

ANALYTICAL REPORT FOR SAMPLE No. EK4389 000111

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZS5 Sponsor WESTINGHOUSE HANFORD CO.

Cas. No.	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
121-14-2	2,4-dinitrotoluene	U	330
84-66-2	diethyl phthalate	U	330
7005-72-3	4-chlorophenyl-phenylether	U	330
86-73-7	fluorene	U	330
100-01-6	4-nitroaniline	U	800
534-52-1	2-methyl-4,6-dinitrophenol	U	800
86-30-6	N-nitroso-diphenylamine	U	330
122-66-7	1,2-diphenylhydrazine	U	1000
101-55-3	4-bromophenyl-phenylether	U	330
319-84-6	alpha.-BHC	UJ	1000
319-85-7	beta-BHC	UJ	5000
118-74-1	hexachlorobenzene	U	330
87-86-5	pentachlorophenol	U	800
58-89-9	gamma.-BHC	UJ	1000
85-01-8	phenanthrene	360	330
120-12-7	anthracene	35.J	330
319-86-8	delta-BHC	UJ	5000
76-44-8	heptachlor	UJ	5000
84-74-2	di-n-butyl phthalate	U	330
309-00-2	aldrin	UJ	5000
1024-57-3	heptachlor epoxide	UJ	5000
206-44-0	fluoranthene	1100.	330
129-00-0	pyrene	840.	330
959-98-8	endosulfan I	UJ	5000
72-55-9	4,4'DDE	U	5000
60-57-1	dieldrin	U	5000
7421-93-4	endrin aldehyde	U	5000
72-20-8	endrin	U	5000
72-54-8	4,4'DDD	U	5000
33213-65-9	endosulfan II	U	5000
85-68-7	butylbenzylphthalate	U	330
50-29-3	4,4'DDT	UJ	5000
1031-07-8	endosulfan sulfate	U	5000
72-43-5	p,p'-methoxychlor	U	1000
91-94-1	3,3'-dichlorobenzidine	U	1000
56-55-3	benzo(a)anthracene	95.J	330
117-81-7	bis(2-ethylhexyl)phthalate	U	330
218-01-9	chrysene	660.	330
117-84-0	di-n-octylphthalate	U	330

DO NOT USE

RB 5/24/93

See footnotes on Page 4.

9613424.0855

ANALYTICAL REPORT FOR SAMPLE No. EK4389

000112

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZS5 Sponsor WESTINGHOUSE HANFORD CO.

Cas. No.	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
205-99-2	benzo(b)fluoranthene	290.J	330
207-08-9	benzo(k)fluoranthene	320.J	330
50-32-8	benzo(a)pyrene	92.J	330
193-39-5	indeno(1,2,3-cd)pyrene	91.J	330
53-70-3	dibenzo(a,h)anthracene	U	330
191-24-2	benzo(g,h,i)perylene	92.J	330
53494-70-5	endrin ketone	U	1000
109-06-8	2-picoline	U	1000
62-50-0	ethyl methanesulfonate	U	1000
66-27-3	methyl methanesulfonate	U	1000
62-53-3	aniline	U	1000
98-86-2	acetophenone	U	1000
100-75-4	N-nitroso-piperidine	U	1000
122-09-8	a,a-dimethylphenethylamine	U	1000
87-65-0	2,6-dichlorophenol	U	1000
924-16-3	N-nitroso-di-n-butylamine	U	1000
95-94-3	1,2,4,5-tetrachlorobenzene	U	1000
90-13-1	1-chloronaphthalene	U	1000
608-93-5	pentachlorobenzene	U	1000
134-32-7	1-naphthylamine	U	1000
58-90-2	2,3,4,6-tetrachlorophenol	U	1000
91-59-8	2-naphthylamine	U	1000
62-44-2	phenacetin	U	1000
92-67-1	4-aminobiphenyl	U	1000
23950-58-5	pronamide (propyzamide)	U	1000
82-68-8	pentachloronitrobenzene	U	1000
92-87-5	benzidine	U	1000
60-11-7	p-dimethylaminoazobenzene	U	1000
57-97-6	7,12-dimethbenz(a)anthracene	U	1000
56-49-5	3-methylchloranthrene	U	1000
57-74-9	chlordane	U	10000
8001-35-2	toxaphene	U	10000
12674-11-2	PCB-1016	U	10000
11104-28-2	PCB-1221	U	10000
11141-16-5	PCB-1232	U	10000
53469-21-9	PCB-1242	U	10000
12672-29-6	PCB-1248	U	10000
11097-69-1	PCB-1254	U	10000
11096-82-5	PCB-1260	U	10000

DO NOT USE

DO NOT USE

RB 5/24/93

See footnotes on Page 4.

9613424.0856

ANALYTICAL REPORT FOR SAMPLE No. EK4389 **000113**

NON-TARGET ANALYTE RESULTS
Additional Semi-Volatiles

Field Sample ID B00ZS5

Cas. No	COMPOUND	Scan Number	Results ug/Kg	Footnotes
	ALDOL CONDENSATION PRODUCT	557	830	NEWB
	ALDOL CONDENSATION PRODUCT	687	310	NEW
	PNA KETONE, MW=208	1486	460	NEW
	PNA KETONE, MW=204	1538	180	NEW
	HEXANEDIOIC ACID, C8 ESTER	1703	170	NEW
	PNA KETONE, MW=230	1720	220	NEW
	PNA, MW=228	1742	220	NEW
	PNA KETONE, MW=230	1753	190	NEW
	PNA KETONE, MW=258	1849	210	NEW
	PNA, MW=252	2029	220	NEW

DO NOT USE RB 5/24/93

FOOTNOTES

B The analyte was found in the method blank. The reported results have been adjusted for the quantity found in the blank.

E The reported concentration is an estimate only. The response factor was assumed to be 1.000 relative to an internal standard.

J Indicates an estimated concentration below the Method Detection Limit.

K The isomer is unknown.

N Analytical standards were not analyzed for this compound.

U Not detected.

W The identification is tentative or closely related to the compound.

9613424.0857

000114

ANALYTICAL REPORT FOR SAMPLE No. EK4390

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID B00ZS7 Sponsor WESTINGHOUSE HANFORD CO.

File ID ZM17EK4890 Date Extracted 09/17/91 Date of Analysis 10/01/91

DataChem ID S91-0719BC

Cas. No	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
62-75-9	N-nitroso-dimethylamine	U	1000
108-95-2	phenol	U	330
111-44-4	bis(2-chloroethyl)ether	U	330
95-57-8	2-chlorophenol	U	330
541-73-1	1,3-dichlorobenzene	U	330
106-46-7	1,4-dichlorobenzene	U	330
100-51-6	benzyl alcohol	U	1000
95-50-1	1,2-dichlorobenzene	U	330
95-48-7	2-methylphenol	U	330
39638-329	bis(2-chloroisopropyl)ether	U	330
106-44-5	4-methylphenol	U	330
621-64-7	N-nitroso-di-n-propylamine	U	330
67-72-1	hexachloroethane	U	330
98-95-3	nitrobenzene	U	330
78-59-1	isophorone	U	330
88-75-5	2-nitrophenol	U	330
105-67-9	2,4-dimethylphenol	U	330
111-91-1	bis(2-chloroethoxy)methane	U	330
65-85-0	benzoic acid	U	1000
120-83-2	2,4-dichlorophenol	U	330
120-82-1	1,2,4-trichlorobenzene	U	330
91-20-3	naphthalene	U	330
106-47-8	4-chloroaniline	U	330
87-68-3	hexachlorobutadiene	U	330
59-50-7	4-chloro-3-methylphenol	U	330
91-57-6	2-methylnaphthalene	U	330
77-47-4	hexachlorocyclopentadiene	U	330
88-06-2	2,4,6-trichlorophenol	U	330
95-95-4	2,4,5-trichlorophenol	U	800
91-58-7	2-chloronaphthalene	U	330
88-74-4	2-nitroaniline	U	800
131-11-3	dimethyl phthalate	U	330
606-20-2	2,6-dinitrotoluene	U	330
208-96-8	acenaphthylene	U	330
99-09-2	3-nitroaniline	U	800
83-32-9	acenaphthene	U	330
51-28-5	2,4-dinitrophenol	U	800
100-02-7	4-nitrophenol	U	800
132-64-9	dibenzofuran	U	330

RIO
5/21/93

See footnotes on page 4.

9613424.0858

000115

ANALYTICAL REPORT FOR SAMPLE No. EK4390

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZS7 Sponsor WESTINGHOUSE HANFORD CO.

Cas. No.	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
121-14-2	2,4-dinitrotoluene	U	330
84-66-2	diethyl phthalate	U	330
7005-72-3	4-chlorophenyl-phenylether	U	330
86-73-7	fluorene	U	330
100-01-6	4-nitroaniline	U	800
534-52-1	2-methyl-4,6-dinitrophenol	U	800
86-30-6	N-nitroso-diphenylamine	U	330
122-66-7	1,2-diphenylhydrazine	U	1000
101-55-3	4-bromophenyl-phenylether	U	330
319-84-6	alpha.-BHC	UJ	1000
319-85-7	beta-BHC	UJ	5000
118-74-1	hexachlorobenzene	U	330
87-86-5	pentachlorophenol	U	800
58-89-9	gamma.-BHC	UJ	1000
85-01-8	phenanthrene	U	330
120-12-7	anthracene	U	330
319-86-8	delta-BHC	UJ	5000
76-44-8	heptachlor	UJ	5000
84-74-2	di-n-butyl phthalate	120.J	330
309-00-2	aldrin	UJ	5000
1024-57-3	heptachlor epoxide	UJ	5000
206-44-0	fluoranthene	U	330
129-00-0	pyrene	U	330
959-98-8	endosulfan I	UJ	5000
72-55-9	4,4'DDE	U	5000
60-57-1	dieldrin	U	5000
7421-93-4	endrin aldehyde	U	5000
72-20-8	endrin	U	5000
72-54-8	4,4'DDD	U	5000
33213-65-9	endosulfan II	U	5000
85-68-7	butylbenzylphthalate	810.	330
50-29-3	4,4'DDT	UJ	5000
1031-07-8	endosulfan sulfate	UJ	5000
72-43-5	p,p'-methoxychlor	UJ	1000
91-94-1	3,3'-dichlorobenzidine	U	1000
56-55-3	benzo(a)anthracene	U	330
117-81-7	bis(2-ethylhexyl)phthalate	29.J	330
218-01-9	chrysene	U	330
117-84-0	di-n-octylphthalate	U	330

DO NOT USE

KB 5/24/93

See footnotes on Page 4.

9613424.0859

C00116

ANALYTICAL REPORT FOR SAMPLE No. EK4390

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZS7 Sponsor WESTINGHOUSE HANFORD CO.

Cas. No.	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
205-99-2	benzo(b)fluoranthene	U	330
207-08-9	benzo(k)fluoranthene	U	330
50-32-8	benzo(a)pyrene	U	330
193-39-5	indeno(1,2,3-cd)pyrene	U	330
53-70-3	dibenzo(a,h)anthracene	U	330
191-24-2	benzo(g,h,i)perylene	U	330
53494-70-5	endrin ketone	UJ	1000
109-06-8	2-picoline	U	1000
62-50-0	ethyl methanesulfonate	U	1000
66-27-3	methyl methanesulfonate	U	1000
62-53-3	aniline	U	1000
98-86-2	acetophenone	U	1000
100-75-4	N-nitroso-piperidine	U	1000
122-09-8	a,a-dimethylphenethylamine	U	1000
87-65-0	2,6-dichlorophenol	U	1000
924-16-3	N-nitroso-di-n-butylamine	U	1000
95-94-3	1,2,4,5-tetrachlorobenzene	U	1000
90-13-1	1-chloronaphthalene	U	1000
608-93-5	pentachlorobenzene	U	1000
134-32-7	1-naphthylamine	U	1000
58-90-2	2,3,4,6-tetrachlorophenol	U	1000
91-59-8	2-naphthylamine	U	1000
62-44-2	phenacetin	U	1000
92-67-1	4-aminobiphenyl	U	1000
23950-58-5	pronamide (propyzamide)	U	1000
82-68-8	pentachloronitrobenzene	U	1000
92-87-5	benzidine	U	1000
60-11-7	p-dimethylaminoazobenzene	U	1000
57-97-6	7,12-dimethbenz(a)anthracene	U	1000
56-49-5	3-methylchloranthrene	U	1000
57-74-9	chlordane	UJ	10000
8001-35-2	toxaphene	UR	10000
12674-11-2	PCB-1016	U	10000
11104-28-2	PCB-1221	U	10000
11141-16-5	PCB-1232	U	10000
53469-21-9	PCB-1242	U	10000
12672-29-6	PCB-1248	U	10000
11097-69-1	PCB-1254	U	10000
11096-82-5	PCB-1260	U	10000

DO NOT USE

KB 5/24/93

DO NOT USE

DO NOT USE

See footnotes on Page 4.

9613424.0860

ANALYTICAL REPORT FOR SAMPLE No. EK4390

000117

NON-TARGET ANALYTE RESULTS
Additional Semi-Volatiles

Field Sample ID BOOZS7

Cas. No	COMPOUND	Scan Number	Results ug/Kg	Footnotes
	ALDOL CONDENSATION PRODUCT	549	380	NEWB
	ALDOL CONDENSATION PRODUCT	592	640	NEWB
	HEXANEDIOIC ACID, C8 ESTER	1744	120	NEW

DO NOT USE
RB 5/24/93

FOOTNOTES

B The analyte was found in the method blank. The reported results have been adjusted for the quantity found in the blank.
E The reported concentration is an estimate only. The response factor was assumed to be 1.000 relative to an internal standard.
J Indicates an estimated concentration below the Method Detection Limit.
K The isomer is unknown.
N Analytical standards were not analyzed for this compound.
U Not detected.
W The identification is tentative or closely related to the compound.

9613424.0861

000118

ANALYTICAL REPORT FOR SAMPLE No. EK4391

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID B00ZS8 Sponsor WESTINGHOUSE HANFORD CO.

File ID ZL5EK4391 Date Extracted 09/17/91 Date of Analysis 09/30/91

DataChem ID S91-0719BC

Cas. No	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
62-75-9	N-nitroso-dimethylamine	U	1000
108-95-2	phenol	U	330
111-44-4	bis(2-chloroethyl)ether	U	330
95-57-8	2-chlorophenol	U	330
541-73-1	1,3-dichlorobenzene	U	330
106-46-7	1,4-dichlorobenzene	U	330
100-51-6	benzyl alcohol	U	1000
95-50-1	1,2-dichlorobenzene	U	330
95-48-7	2-methylphenol	U	330
39638-329	bis(2-chloroisopropyl)ether	U	330
106-44-5	4-methylphenol	U	330
621-64-7	N-nitroso-di-n-propylamine	U	330
67-72-1	hexachloroethane	U	330
98-95-3	nitrobenzene	U	330
78-59-1	isophorone	U	330
88-75-5	2-nitrophenol	U	330
105-67-9	2,4-dimethylphenol	U	330
111-91-1	bis(2-chloroethoxy)methane	U	330
65-85-0	benzoic acid	U	1000
120-83-2	2,4-dichlorophenol	U	330
120-82-1	1,2,4-trichlorobenzene	U	330
91-20-3	naphthalene	U	330
106-47-8	4-chloroaniline	U	330
87-68-3	hexachlorobutadiene	U	330
59-50-7	4-chloro-3-methylphenol	U	330
91-57-6	2-methylnaphthalene	U	330
77-47-4	hexachlorocyclopentadiene	U	330
88-06-2	2,4,6-trichlorophenol	U	330
95-95-4	2,4,5-trichlorophenol	U	800
91-58-7	2-chloronaphthalene	U	330
88-74-4	2-nitroaniline	U	800
131-11-3	dimethyl phthalate	U	330
606-20-2	2,6-dinitrotoluene	U	330
208-96-8	acenaphthylene	U	330
99-09-2	3-nitroaniline	U	800
83-32-9	acenaphthene	U	330
51-28-5	2,4-dinitrophenol	U	800
100-02-7	4-nitrophenol	U	800
132-64-9	dibenzofuran	U	330

RB 5/4/93

DO NOT USE

See footnotes on page 4.

ANALYTICAL REPORT FOR SAMPLE No. EK4391

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZS8 Sponsor WESTINGHOUSE HANFORD CO.

Cas. No.	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
121-14-2	2,4-dinitrotoluene	U	330
84-66-2	diethyl phthalate	U	330
7005-72-3	4-chlorophenyl-phenylether	U	330
86-73-7	fluorene	U	330
100-01-6	4-nitroaniline	U	800
534-52-1	2-methyl-4,6-dinitrophenol	U	800
86-30-6	N-nitroso-diphenylamine	U	330
122-66-7	1,2-diphenylhydrazine	U	1000
101-55-3	4-bromophenyl-phenylether	U	330
319-84-6	alpha-BHC	UJ	1000
319-85-7	beta-BHC	UJ	5000
118-74-1	hexachlorobenzene	U	330
87-86-5	pentachlorophenol	U	800
58-89-9	gamma-BHC	UJ	1000
85-01-8	phenanthrene	U	330
120-12-7	anthracene	U	330
319-86-8	delta-BHC	UJ	5000
76-44-8	heptachlor	UJ	5000
84-74-2	di-n-butyl phthalate	U	330
309-00-2	aldrin	UJ	5000
1024-57-3	heptachlor epoxide	UJ	5000
206-44-0	fluoranthene	U	330
129-00-0	pyrene	U	330
959-98-8	endosulfan I	UJ	5000
72-55-9	4,4'DDE	U	5000
60-57-1	dieldrin	U	5000
7421-93-4	endrin aldehyde	U	5000
72-20-8	endrin	U	5000
72-54-8	4,4'DDD	U	5000
33213-65-9	endosulfan II	U	5000
85-68-7	butylbenzylphthalate	U	330
50-29-3	4,4'DDT	UJ	5000
1031-07-8	endosulfan sulfate	UJ	5000
72-43-5	p,p'-methoxychlor	UJ	1000
91-94-1	3,3'-dichlorobenzidine	U	1000
56-55-3	benzo(a)anthracene	U	330
117-81-7	bis(2-ethylhexyl)phthalate	U	330
218-01-9	chrysene	U	330
117-84-0	di-n-octylphthalate	U	330

RB 5/24/93

DO NOT USE

DO NOT USE

DO NOT USE

DO NOT USE

DO NOT USE

See footnotes on Page 4.

9613424.0863

ANALYTICAL REPORT FOR SAMPLE No. EK4391 000120

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZS8 Sponsor WESTINGHOUSE HANFORD CO.

Cas. No.	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
205-99-2	benzo(b)fluoranthene	U	330
207-08-9	benzo(k)fluoranthene	U	330
50-32-8	benzo(a)pyrene	U	330
193-39-5	indeno(1,2,3-cd)pyrene	U	330
53-70-3	dibenzo(a,h)anthracene	U	330
191-24-2	benzo(g,h,i)perylene	U	330
53494-70-5	endrin ketone	UJ	1000
109-06-8	2-picoline	U	1000
62-50-0	ethyl methanesulfonate	U	1000
66-27-3	methyl methanesulfonate	U	1000
62-53-3	aniline	U	1000
98-86-2	acetophenone	U	1000
100-75-4	N-nitroso-piperidine	U	1000
122-09-8	a,a-dimethylphenethylamine	U	1000
87-65-0	2,6-dichlorophenol	U	1000
924-16-3	N-nitroso-di-n-butylamine	U	1000
95-94-3	1,2,4,5-tetrachlorobenzene	U	1000
90-13-1	1-chloronaphthalene	U	1000
608-93-5	pentachlorobenzene	U	1000
134-32-7	1-naphthylamine	U	1000
58-90-2	2,3,4,6-tetrachlorophenol	U	1000
91-59-8	2-naphthylamine	U	1000
62-44-2	phenacetin	U	1000
92-67-1	4-aminobiphenyl	U	1000
23950-58-5	pronamide (propyzamide)	U	1000
82-68-8	pentachloronitrobenzene	U	1000
92-87-5	benzidine	U	1000
60-11-7	p-dimethylaminoazobenzene	U	1000
57-97-6	7,12-dimethbenz(a)anthracene	U	1000
56-49-5	3-methylchloranthrene	U	1000
57-74-9	chlordane	UJ	10000
8001-35-2	toxaphene	UR	10000
12674-11-2	PCB-1016	U	10000
11104-28-2	PCB-1221	U	10000
11141-16-5	PCB-1232	U	10000
53469-21-9	PCB-1242	U	10000
12672-29-6	PCB-1248	U	10000
11097-69-1	PCB-1254	U	10000
11096-82-5	PCB-1260	U	10000

DO NOT USE

RB 5/24/93

DO NOT USE

DO NOT USE

See footnotes on Page 4.

ANALYTICAL REPORT FOR SAMPLE No. EK4391

NON-TARGET ANALYTE RESULTS
Additional Semi-Volatiles

Field Sample ID BOOZS8

Cas. No	COMPOUND	Scan Number	Results ug/Kg	Footnotes
	ALDOL CONDENSATION PRODUCT	547	420	NEWB
	ALDOL CONDENSATION PRODUCT	591	540	NEWB
	ALDOL CONDENSATION PRODUCT	651	170	NEW
	BROMODIFLUORO H.C.	829	230	NEW
	HEXANEDIOIC ACID, C8 ESTER	1747	160	NEW

DO NOT USE
RB 5/24/93

FOOTNOTES

B The analyte was found in the method blank. The reported results have been adjusted for the quantity found in the blank.
E The reported concentration is an estimate only. The response factor was assumed to be 1.000 relative to an internal standard.
J Indicates an estimated concentration below the Method Detection Limit.
K The isomer is unknown.
N Analytical standards were not analyzed for this compound.
U Not detected.
W The identification is tentative or closely related to the compound.

9613424.0865

ANALYTICAL REPORT FOR SAMPLE No. EK4384

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZS0 Sponsor WESTINGHOUSE HANFORD CO.

File ID ZR9EK4384D Date Extracted 09/17/91 Date of Analysis 10/03/91

DataChem ID S91-0719BC

Cas. No	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
62-75-9	N-nitroso-dimethylamine	U	10000
108-95-2	phenol	U	3300
111-44-4	bis(2-chloroethyl)ether	U	3300
95-57-8	2-chlorophenol	U	3300
541-73-1	1,3-dichlorobenzene	U	3300
106-46-7	1,4-dichlorobenzene	U	3300
100-51-6	benzyl alcohol	U	10000
95-50-1	1,2-dichlorobenzene	U	3300
95-48-7	2-methylphenol	U	3300
39638-329	bis(2-chloroisopropyl)ether	U	3300
106-44-5	4-methylphenol	U	3300
621-64-7	N-nitroso-di-n-propylamine	U	3300
67-72-1	hexachloroethane	U	3300
98-95-3	nitrobenzene	U	3300
78-59-1	isophorone	U	3300
88-75-5	2-nitrophenol	U	3300
105-67-9	2,4-dimethylphenol	U	3300
111-91-1	bis(2-chloroethoxy)methane	U	3300
65-85-0	benzoic acid	UJ	10000
120-83-2	2,4-dichlorophenol	U	3300
120-82-1	1,2,4-trichlorobenzene	U	3300
91-20-3	naphthalene	370.J	3300
106-47-8	4-chloroaniline	U	3300
87-68-3	hexachlorobutadiene	U	3300
59-50-7	4-chloro-3-methylphenol	U	3300
91-57-6	2-methylnaphthalene	U	3300
77-47-4	hexachlorocyclopentadiene	U	3300
88-06-2	2,4,6-trichlorophenol	U	3300
95-95-4	2,4,5-trichlorophenol	UJ	8000
91-58-7	2-chloronaphthalene	U	3300
88-74-4	2-nitroaniline	UJ	8000
131-11-3	dimethyl phthalate	U	3300
606-20-2	2,6-dinitrotoluene	U	3300
208-96-8	acenaphthylene	U	3300
99-09-2	3-nitroaniline	UJ	8000
83-32-9	acenaphthene	U	3300
51-28-5	2,4-dinitrophenol	UJ	8000
100-02-7	4-nitrophenol	UJ	8000
132-64-9	dibenzofuran	U	3300

RB 3/19/93

PBD 5/12/93

See footnotes on page 4.

9613424.0866

ANALYTICAL REPORT FOR SAMPLE No. EK4384

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZS0 Sponsor WESTINGHOUSE HANFORD CO.

Cas. No.	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
121-14-2	2,4-dinitrotoluene	U	3300
84-66-2	diethyl phthalate	U	3300
7005-72-3	4-chlorophenyl-phenylether	U	3300
86-73-7	fluorene	U	3300
100-01-6	4-nitroaniline	UJ	8000
534-52-1	2-methyl-4,6-dinitrophenol	UJ	8000
86-30-6	N-nitroso-diphenylamine	U	3300
122-66-7	1,2-diphenylhydrazine	U	10000
101-55-3	4-bromophenyl-phenylether	U	3300
319-84-6	~~.alpha.-BHC~~	U	10000
319-85-7	~~beta-BHC~~	U	50000
118-74-1	hexachlorobenzene	U	3300
87-86-5	pentachlorophenol	UJ	8000
58-89-9	~~.gamma.-BHC~~	U	10000
85-01-8	phenanthrene	960.J	3300
120-12-7	anthracene	160.J	3300
319-86-8	~~delta-BHC~~	U	50000
76-44-8	heptachlor	U	50000
84-74-2	di-n-butyl phthalate	U	3300
309-00-2	~~aldrin~~	U	50000
1024-57-3	~~heptachlor~~ epoxide	U	50000
206-44-0	fluoranthene	910.J	3300
129-00-0	pyrene	1000.J	3300
959-98-8	~~endosulfan I~~	U	50000
72-55-9	~~4,4'DDE~~	U	50000
60-57-1	~~dieldrin~~	U	50000
7421-93-4	~~endrin aldehyde~~	U	50000
72-20-8	~~endrin~~	U	50000
72-54-8	~~4,4'DDD~~	U	50000
33213-65-9	~~endosulfan II~~	U	50000
85-68-7	butylbenzylphthalate	U	3300
50-29-3	~~4,4'DDT~~	U	50000
1031-07-8	~~endosulfan sulfate~~	U	50000
72-43-5	~~p,p'-methoxychlor~~	U	10000
91-94-1	3,3'-dichlorobenzidine	U	10000
56-55-3	benzo(a)anthracene	490.J	3300
117-81-7	bis(2-ethylhexyl)phthalate	U	3300
218-01-9	chrysene	660.J	3300
117-84-0	di-n-octylphthalate	U	3300

AB 3/19/93

See footnotes on Page 4.

9613424.0867

ANALYTICAL REPORT FOR SAMPLE No. EK4384

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZS0 Sponsor WESTINGHOUSE HANFORD CO.

Cas. No.	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
205-99-2	benzo(b)fluoranthene	340.J	3300
207-08-9	benzo(k)fluoranthene	500.J	3300
50-32-8	benzo(a)pyrene	490.J	3300
193-39-5	indeno(1,2,3-cd)pyrene	U	3300
53-70-3	dibenzo(a,h)anthracene	U	3300
191-24-2	benzo(g,h,i)perylene	U	3300
53494-70-5	endrin ketone	U	10000
109-06-8	2-picoline	U	10000
62-50-0	ethyl methanesulfonate	U	10000
66-27-3	methyl methanesulfonate	U	10000
62-53-3	aniline	U	10000
98-86-2	acetophenone	U	10000
100-75-4	N-nitroso-piperidine	U	10000
122-09-8	a,a-dimethylphenethylamine	U	10000
87-65-0	2,6-dichlorophenol	U	10000
924-16-3	N-nitroso-di-n-butylamine	U	10000
95-94-3	1,2,4,5-tetrachlorobenzene	U	10000
90-13-1	1-chloronaphthalene	U	10000
608-93-5	pentachlorobenzene	U	10000
134-32-7	1-naphthylamine	U	10000
58-90-2	2,3,4,6-tetrachlorophenol	U	10000
91-59-8	2-naphthylamine	U	10000
62-44-2	phenacetin	U	10000
92-67-1	4-aminobiphenyl	U	10000
23950-58-5	pronamide (propyzamide)	U	10000
82-68-8	pentachloronitrobenzene	U	10000
92-87-5	benzidine	U	10000
60-11-7	p-dimethylaminoazobenzene	U	10000
57-97-6	7,12-dimethbenz(a)anthracene	U	10000
56-49-5	3-methylchloranthrene	U	10000
57-74-9	chlordane	U	100000
8001-35-2	toxaphene	U	100000
12674-11-2	PCB-1016	P	100000
11104-28-2	PCB-1221	P	100000
11141-16-5	PCB-1232	P	100000
53469-21-9	PCB-1242	P	100000
12672-29-6	PCB-1248	P	100000
11097-69-1	PCB-1254	P	100000
11096-82-5	PCB-1260	P	100000

RB 3/19/93

See footnotes on Page 4.

9613424.0868

ANALYTICAL REPORT FOR SAMPLE No. EK4385

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID B00ZS1 Sponsor WESTINGHOUSE HANFORD CO.

File ID ZR5EK4385D Date Extracted 09/17/91 Date of Analysis 10/03/91

DataChem ID S91-0719BC

Cas. No	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
62-75-9	N-nitroso-dimethylamine	U	20000
108-95-2	phenol	U	6600
111-44-4	bis(2-chloroethyl)ether	U	6600
95-57-8	2-chlorophenol	U	6600
541-73-1	1,3-dichlorobenzene	U	6600
106-46-7	1,4-dichlorobenzene	U	6600
100-51-6	benzyl alcohol	U	20000
95-50-1	1,2-dichlorobenzene	U	6600
95-48-7	2-methylphenol	U	6600
39638-329	bis(2-chloroisopropyl)ether	U	6600
106-44-5	4-methylphenol	U	6600
621-64-7	N-nitroso-di-n-propylamine	U	6600
67-72-1	hexachloroethane	U	6600
98-95-3	nitrobenzene	U	6600
78-59-1	isophorone	U	6600
88-75-5	2-nitrophenol	U	6600
105-67-9	2,4-dimethylphenol	U	6600
111-91-1	bis(2-chloroethoxy)methane	U	6600
65-85-0	benzoic acid	UJ	20000
120-83-2	2,4-dichlorophenol	U	6600
120-82-1	1,2,4-trichlorobenzene	U	6600
91-20-3	naphthalene	U	6600
106-47-8	4-chloroaniline	U	6600
87-68-3	hexachlorobutadiene	U	6600
59-50-7	4-chloro-3-methylphenol	U	6600
91-57-6	2-methylnaphthalene	U	6600
77-47-4	hexachlorocyclopentadiene	U	6600
88-06-2	2,4,6-trichlorophenol	U	6600
95-95-4	2,4,5-trichlorophenol	UJ	1600
91-58-7	2-chloronaphthalene	U	6600
88-74-4	2-nitroaniline	UJ	1600
131-11-3	dimethyl phthalate	U	6600
606-20-2	2,6-dinitrotoluene	U	6600
208-96-8	acenaphthylene	U	6600
99-09-2	3-nitroaniline	UJ	1600
83-32-9	acenaphthene	U	6600
51-28-5	2,4-dinitrophenol	UJ	1600
100-02-7	4-nitrophenol	UJ	1600
132-64-9	dibenzofuran	U	6600

RB 3/19/93

See footnotes on page 4.

PBD 5/12/93

9613424.0869

ANALYTICAL REPORT FOR SAMPLE No. EK4385

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZS1 Sponsor WESTINGHOUSE HANFORD CO.

Cas. No.	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
121-14-2	2,4-dinitrotoluene	U	6600
84-66-2	diethyl phthalate	U	6600
7005-72-3	4-chlorophenyl-phenylether	U	6600
86-73-7	fluorene	U	6600
100-01-6	4-nitroaniline	UJ	16000
534-52-1	2-methyl-4,6-dinitrophenol	UJ	16000
86-30-6	N-nitroso-diphenylamine	U	6600
122-66-7	1,2-diphenylhydrazine	U	20000
101-55-3	4-bromophenyl-phenylether	U	6600
319-84-6	~~alpha-BHC~~	U	20000
319-85-7	~~beta-BHC~~	U	100000
118-74-1	hexachlorobenzene	U	6600
87-86-5	pentachlorophenol	UJ	1600
58-89-9	~~gamma-BHC~~	U	100000
85-01-8	phenanthrene	U	6600
120-12-7	anthracene	U	6600
319-86-8	~~delta-BHC~~	U	100000
76-44-8	~~heptachlor~~	U	100000
84-74-2	di-n-butyl phthalate	U	6600
309-00-2	~~aldrin~~	U	100000
1024-57-3	~~heptachlor epoxide~~	U	100000
206-44-0	fluoranthene	U	6600
129-00-0	pyrene	U	6600
959-98-8	~~endosulfan I~~	U	100000
72-55-9	~~4,4'DDE~~	U	100000
60-57-1	~~dieldrin~~	U	100000
7421-93-4	~~endrin aldehyde~~	U	100000
72-20-8	~~endrin~~	U	100000
72-54-8	~~4,4'DDD~~	U	100000
33213-65-9	~~endosulfan II~~	U	100000
85-68-7	butylbenzylphthalate	U	6600
50-29-3	~~4,4'DDT~~	U	100000
1031-07-8	~~endosulfan sulfate~~	U	100000
72-43-5	~~p,p'-methoxychlor~~	U	20000
91-94-1	3,3'-dichlorobenzidine	U	20000
56-55-3	benzo(a)anthracene	U	6600
117-81-7	bis(2-ethylhexyl)phthalate	U	6600
218-01-9	chrysene	U	6600
117-84-0	di-n-octylphthalate	U	6600

BB 7/19/93

See footnotes on Page 4.

9613424.0870

ANALYTICAL REPORT FOR SAMPLE No. EK4385

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZS1 Sponsor WESTINGHOUSE HANFORD CO.

Cas. No.	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
205-99-2	benzo(b)fluoranthene	U	6600
207-08-9	benzo(k)fluoranthene	U	6600
50-32-8	benzo(a)pyrene	U	6600
193-39-5	indeno(1,2,3-cd)pyrene	U	6600
53-70-3	dibenzo(a,h)anthracene	U	6600
191-24-2	benzo(g,h,i)perylene	U	6600
53494-70-5	~~Endrin ketone~~	U	20000
109-06-8	2-picoline	U	20000
62-50-0	ethyl methanesulfonate	U	20000
66-27-3	methyl methanesulfonate	U	20000
62-53-3	aniline	U	20000
98-86-2	acetophenone	U	20000
100-75-4	N-nitroso-piperidine	U	20000
122-09-8	a,a-dimethylphenethylamine	U	20000
87-65-0	2,6-dichlorophenol	U	20000
924-16-3	N-nitroso-di-n-butylamine	U	20000
95-94-3	1,2,4,5-tetrachlorobenzene	U	20000
90-13-1	1-chloronaphthalene	U	20000
608-93-5	pentachlorobenzene	U	20000
134-32-7	1-naphthylamine	U	20000
58-90-2	2,3,4,6-tetrachlorophenol	U	20000
91-59-8	2-naphthylamine	U	20000
62-44-2	phenacetin	U	20000
92-67-1	4-aminobiphenyl	U	20000
23950-58-5	pronamide (propyzamide)	U	20000
82-68-8	pentachloronitrobenzene	U	20000
92-87-5	benzidine	U	20000
60-11-7	p-dimethylaminoazobenzene	U	20000
57-97-6	7,12-dimethbenz(a)anthracene	U	20000
56-49-5	3-methylchloranthrene	U	20000
57-74-9	~~chlordane~~	U	200000
8001-35-2	~~toxaphene~~	U	200000
12674-11-2	~~PCB-1016~~	U	200000
11104-28-2	~~PCB-1221~~	U	200000
11141-16-5	~~PCB-1232~~	U	200000
53469-21-9	~~PCB-1242~~	U	200000
12672-29-6	~~PCB-1248~~	U	200000
11097-69-1	~~PCB-1254~~	U	200000
11096-82-5	~~PCB-1260~~	U	200000

RB 3/19/93

See footnotes on Page 4.

9613424.0871

ANALYTICAL REPORT FOR SAMPLE No. EK4386

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZS2 Sponsor WESTINGHOUSE HANFORD CO.

File ID ZR4EK4386D Date Extracted 09/17/91 Date of Analysis 10/03/91

DataChem ID S91-0719BC

Cas. No	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
62-75-9	N-nitroso-dimethylamine	U	10000
108-95-2	phenol	U	3300
111-44-4	bis(2-chloroethyl)ether	U	3300
95-57-8	2-chlorophenol	U	3300
541-73-1	1,3-dichlorobenzene	U	3300
106-46-7	1,4-dichlorobenzene	U	3300
100-51-6	benzyl alcohol	U	10000
95-50-1	1,2-dichlorobenzene	U	3300
95-48-7	2-methylphenol	U	3300
39638-329	bis(2-chloroisopropyl)ether	U	3300
106-44-5	4-methylphenol	U	3300
621-64-7	N-nitroso-di-n-propylamine	U	3300
67-72-1	hexachloroethane	U	3300
98-95-3	nitrobenzene	U	3300
78-59-1	isophorone	U	3300
88-75-5	2-nitrophenol	U	3300
105-67-9	2,4-dimethylphenol	U	3300
111-91-1	bis(2-chloroethoxy)methane	U	3300
65-85-0	benzoic acid	UJ	10000
120-83-2	2,4-dichlorophenol	U	3300
120-82-1	1,2,4-trichlorobenzene	U	3300
91-20-3	naphthalene	U	3300
106-47-8	4-chloroaniline	U	3300
87-68-3	hexachlorobutadiene	U	3300
59-50-7	4-chloro-3-methylphenol	U	3300
91-57-6	2-methylnaphthalene	U	3300
77-47-4	hexachlorocyclopentadiene	U	3300
88-06-2	2,4,6-trichlorophenol	U	3300
95-95-4	2,4,5-trichlorophenol	UJ	8000
91-58-7	2-chloronaphthalene	U	3300
88-74-4	2-nitroaniline	UJ	8000
131-11-3	dimethyl phthalate	U	3300
606-20-2	2,6-dinitrotoluene	U	3300
208-96-8	acenaphthylene	U	3300
99-09-2	3-nitroaniline	UJ	8000
83-32-9	acenaphthene	U	3300
51-28-5	2,4-dinitrophenol	UJ	8000
100-02-7	4-nitrophenol	UJ	8000
132-64-9	dibenzofuran	U	3300

AB 3/19/93

ABD 5/12/93

See footnotes on page 4.

9613424.0872

ANALYTICAL REPORT FOR SAMPLE No. EK4386

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZS2 Sponsor WESTINGHOUSE HANFORD CO.

Cas. No.	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
121-14-2	2,4-dinitrotoluene	U	3300
84-66-2	diethyl phthalate	U	3300
7005-72-3	4-chlorophenyl-phenylether	U	3300
86-73-7	fluorene	U	3300
100-01-6	4-nitroaniline	UJ	8000
534-52-1	2-methyl-4,6-dinitrophenol	UJ	8000
86-30-6	N-nitroso-diphenylamine	U	3300
122-66-7	1,2-diphenylhydrazine	U	10000
101-55-3	4-bromophenyl-phenylether	U	3300
319-84-6	~~alpha-BHC~~	U	10000
319-85-7	~~beta-BHC~~	U	50000
118-74-1	hexachlorobenzene	U	3300
87-86-5	pentachlorophenol	UJ	8000
58-89-9	~~gamma-BHC~~	U	10000
85-01-8	phenanthrene	U	3300
120-12-7	anthracene	U	3300
319-86-8	~~delta-BHC~~	U	50000
76-44-8	~~heptachlor~~	U	50000
84-74-2	di-n-butyl phthalate	U	3300
309-00-2	~~aldrin~~	U	50000
1024-57-3	~~heptachlor epoxide~~	U	50000
206-44-0	fluoranthene	U	3300
129-00-0	pyrene	U	3300
959-98-8	~~endosulfan I~~	U	50000
72-55-9	~~4,4'DDE~~	U	50000
60-57-1	~~dieldrin~~	U	50000
7421-93-4	~~endrin aldehyde~~	U	50000
72-20-8	~~endrin~~	U	50000
72-54-8	~~4,4'DDD~~	U	50000
33213-65-9	~~endosulfan II~~	U	50000
85-68-7	butylbenzylphthalate	U	3300
50-29-3	~~4,4'DDT~~	U	50000
1031-07-8	~~endosulfan sulfate~~	U	50000
72-43-5	~~p,p'-methoxychlor~~	U	10000
91-94-1	3,3'-dichlorobenzidine	U	10000
56-55-3	benzo(a)anthracene	U	3300
117-81-7	bis(2-ethylhexyl)phthalate	U	3300
218-01-9	chrysene	U	3300
117-84-0	di-n-octylphthalate	U	3300

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See footnotes on Page 4.

9613424.0873

ANALYTICAL REPORT FOR SAMPLE No. EK4386

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZS2 Sponsor WESTINGHOUSE HANFORD CO.

Cas. No.	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
205-99-2	benzo(b)fluoranthene	U	3300
207-08-9	benzo(k)fluoranthene	U	3300
50-32-8	benzo(a)pyrene	U	3300
193-39-5	indeno(1,2,3-cd)pyrene	U	3300
53-70-3	dibenzo(a,h)anthracene	U	3300
191-24-2	benzo(g,h,i)perylene	U	3300
53494-70-5	~~endrin ketone~~	U	10000
109-06-8	2-picoline	U	10000
62-50-0	ethyl methanesulfonate	U	10000
66-27-3	methyl methanesulfonate	U	10000
62-53-3	aniline	U	10000
98-86-2	acetophenone	U	10000
100-75-4	N-nitroso-piperidine	U	10000
122-09-8	a,a-dimethylphenethylamine	U	10000
87-65-0	2,6-dichlorophenol	U	10000
924-16-3	N-nitroso-di-n-butylamine	U	10000
95-94-3	1,2,4,5-tetrachlorobenzene	U	10000
90-13-1	1-chloronaphthalene	U	10000
608-93-5	pentachlorobenzene	U	10000
134-32-7	1-naphthylamine	U	10000
58-90-2	2,3,4,6-tetrachlorophenol	U	10000
91-59-8	2-naphthylamine	U	10000
62-44-2	phenacetin	U	10000
92-67-1	4-aminobiphenyl	U	10000
23950-58-5	pronamide (propyzamide)	U	10000
82-68-8	pentachloronitrobenzene	U	10000
92-87-5	benzidine	U	10000
60-11-7	p-dimethylaminoazobenzene	U	10000
57-97-6	7,12-dimethbenz(a)anthracene	U	10000
56-49-5	3-methylchloranthrene	U	10000
57-74-9	~~chlordane~~	U	100000
8001-35-2	~~toxaphene~~	U	100000
12674-11-2	PCB-1016	U	100000
11104-28-2	PCB-1221	U	100000
11141-16-5	PCB-1232	U	100000
53469-21-9	PCB-1242	U	100000
12672-29-6	PCB-1248	U	100000
11097-69-1	PCB-1254	U	100000
11096-82-5	PCB-1260	U	100000

RB 3/19/93

See footnotes on Page 4.

9613424.0874

ANALYTICAL REPORT FOR SAMPLE No. EK4387

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZS3 Sponsor WESTINGHOUSE HANFORD CO.

File ID PS5EK4387 Date Extracted 09/17/91 Date of Analysis 10/05/91

DataChem ID S91-0719BC

Cas. No	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
62-75-9	N-nitroso-dimethylamine	U	1000
108-95-2	phenol	U	330
111-44-4	bis(2-chloroethyl)ether	U	330
95-57-8	2-chlorophenol	U	330
541-73-1	1,3-dichlorobenzene	U	330
106-46-7	1,4-dichlorobenzene	U	330
100-51-6	benzyl alcohol	U	1000
95-50-1	1,2-dichlorobenzene	U	330
95-48-7	2-methylphenol	U	330
39638-329	bis(2-chloroisopropyl)ether	U	330
106-44-5	4-methylphenol	U	330
621-64-7	N-nitroso-di-n-propylamine	U	330
67-72-1	hexachloroethane	U	330
98-95-3	nitrobenzene	U	330
78-59-1	isophorone	U	330
88-75-5	2-nitrophenol	U	330
105-67-9	2,4-dimethylphenol	U	330
111-91-1	bis(2-chloroethoxy)methane	U	330
65-85-0	benzoic acid	UJ	1000
120-83-2	2,4-dichlorophenol	U	330
120-82-1	1,2,4-trichlorobenzene	U	330
91-20-3	naphthalene	750.	330
106-47-8	4-chloroaniline	U	330
87-68-3	hexachlorobutadiene	U	330
59-50-7	4-chloro-3-methylphenol	U	330
91-57-6	2-methylnaphthalene	200.J	330
77-47-4	hexachlorocyclopentadiene	U	330
88-06-2	2,4,6-trichlorophenol	U	330
95-95-4	2,4,5-trichlorophenol	UJ	800
91-58-7	2-chloronaphthalene	U	330
88-74-4	2-nitroaniline	UJ	800
131-11-3	dimethyl phthalate	U	330
606-20-2	2,6-dinitrotoluene	U	330
208-96-8	acenaphthylene	30.J	330
99-09-2	3-nitroaniline	UJ	800
83-32-9	acenaphthene	390.	330
51-28-5	2,4-dinitrophenol	UJ	800
100-02-7	4-nitrophenol	UJ	800
132-64-9	dibenzofuran	280.J	330

AB 3/19/93

See footnotes on page 4.

PBD 5/12/93

9613424.0875

ANALYTICAL REPORT FOR SAMPLE No. EK4387

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZS3 Sponsor WESTINGHOUSE HANFORD CO.

Cas. No.	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
121-14-2	2,4-dinitrotoluene	U	330
84-66-2	diethyl phthalate	U	330
7005-72-3	4-chlorophenyl-phenylether	U	330
86-73-7	fluorene	410.	330
100-01-6	4-nitroaniline	UJ	800
534-52-1	2-methyl-4,6-dinitrophenol	UJ	800
86-30-6	N-nitroso-diphenylamine	U	330
122-66-7	1,2-diphenylhydrazine	U	1000
101-55-3	4-bromophenyl-phenylether	U	330
319-84-6	~~alpha-BHC~~	U	1000
319-85-7	~~beta-BHC~~	U	5000
118-74-1	hexachlorobenzene	U	330
87-86-5	pentachlorophenol	UJ	800
58-89-9	~~gamma-BHC~~	U	1000
85-01-8	phenanthrene	3300.	330
120-12-7	anthracene	320.J	330
319-86-8	~~delta-BHC~~	U	5000
76-44-8	~~heptachlor~~	U	5000
84-74-2	di-n-butyl phthalate	90.J	330
309-00-2	~~aldrin~~	U	5000
1024-57-3	~~heptachlor epoxide~~	U	5000
206-44-0	fluoranthene	3200.	330
129-00-0	pyrene	2400.	330
959-98-8	~~endosulfan I~~	U	5000
72-55-9	~~4,4'DDE~~	U	5000
60-57-1	~~dieldrin~~	U	5000
7421-93-4	~~endrin aldehyde~~	U	5000
72-20-8	~~endrin~~	U	5000
72-54-8	~~4,4'DDD~~	U	5000
33213-65-9	~~endosulfan II~~	U	5000
85-68-7	butylbenzylphthalate	1100.	330
50-29-3	~~4,4'DDT~~	U	5000
1031-07-8	~~endosulfan sulfate~~	U	5000
72-43-5	~~p,p'-methoxychlor~~	U	1000
91-94-1	3,3'-dichlorobenzidine	U	1000
56-55-3	benzo(a)anthracene	1500.	330
117-81-7	bis(2-ethylhexyl)phthalate	96.J	330
218-01-9	chrysene	1400.	330
117-84-0	di-n-octylphthalate	U	330

BB 3/19/93

See footnotes on Page 4.

9613424.0876

ANALYTICAL REPORT FOR SAMPLE No. EK4387

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZS3 Sponsor WESTINGHOUSE HANFORD CO.

Cas. No.	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
205-99-2	benzo(b)fluoranthene	890.	330
207-08-9	benzo(k)fluoranthene	840.	330
50-32-8	benzo(a)pyrene	910.	330
193-39-5	indeno(1,2,3-cd)pyrene	680.	330
53-70-3	dibenzo(a,h)anthracene	240.J	330
191-24-2	benzo(g,h,i)perylene	700.	330
53494-70-5	~~endrin ketone~~	U	1000
109-06-8	2-picoline	U	1000
62-50-0	ethyl methanesulfonate	U	1000
66-27-3	methyl methanesulfonate	U	1000
62-53-3	aniline	U	1000
98-86-2	acetophenone	U	1000
100-75-4	N-nitroso-piperidine	U	1000
122-09-8	a,a-dimethylphenethylamine	U	1000
87-65-0	2,6-dichlorophenol	U	1000
924-16-3	N-nitroso-di-n-butylamine	U	1000
95-94-3	1,2,4,5-tetrachlorobenzene	U	1000
90-13-1	1-chloronaphthalene	U	1000
608-93-5	pentachlorobenzene	U	1000
134-32-7	1-naphthylamine	U	1000
58-90-2	2,3,4,6-tetrachlorophenol	U	1000
91-59-8	2-naphthylamine	U	1000
62-44-2	phenacetin	U	1000
92-67-1	4-aminobiphenyl	U	1000
23950-58-5	pronamide (propyzamide)	U	1000
82-68-8	pentachloronitrobenzene	U	1000
92-87-5	benzidine	U	1000
60-11-7	p-dimethylaminoazobenzene	U	1000
57-97-6	7,12-dimethbenz(a)anthracene	U	1000
56-49-5	3-methylchloranthrene	U	1000
57-74-9	~~chlordane~~	U	10000
8001-35-2	~~toxaphene~~	U	10000
12674-11-2	PCB-1016	P	10000
11104-28-2	PCB-1221	P	10000
11141-16-5	PCB-1232	P	10000
53469-21-9	PCB-1242	P	10000
12672-29-6	PCB-1248	P	10000
11097-69-1	PCB-1254	P	10000
11096-82-5	PCB-1260	P	10000

RB 3/19/93

See footnotes on Page 4.

9613424.0877

ANALYTICAL REPORT FOR SAMPLE No. EK4388

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZS4 Sponsor WESTINGHOUSE HANFORD CO.

File ID ZM18EK4388 Date Extracted 09/17/91 Date of Analysis 10/01/91

DataChem ID S91-0719BC

Cas. No	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
62-75-9	N-nitroso-dimethylamine	U	1000
108-95-2	phenol	U	330
111-44-4	bis(2-chloroethyl)ether	U	330
95-57-8	2-chlorophenol	U	330
541-73-1	1,3-dichlorobenzene	U	330
106-46-7	1,4-dichlorobenzene	U	330
100-51-6	benzyl alcohol	U	1000
95-50-1	1,2-dichlorobenzene	U	330
95-48-7	2-methylphenol	U	330
39638-329	bis(2-chloroisopropyl)ether	U	330
106-44-5	4-methylphenol	U	330
621-64-7	N-nitroso-di-n-propylamine	U	330
67-72-1	hexachloroethane	U	330
98-95-3	nitrobenzene	U	330
78-59-1	isophorone	U	330
88-75-5	2-nitrophenol	U	330
105-67-9	2,4-dimethylphenol	U	330
111-91-1	bis(2-chloroethoxy)methane	U	330
65-85-0	benzoic acid	UJ	1000
120-83-2	2,4-dichlorophenol	U	330
120-82-1	1,2,4-trichlorobenzene	U	330
91-20-3	naphthalene	U	330
106-47-8	4-chloroaniline	U	330
87-68-3	hexachlorobutadiene	U	330
59-50-7	4-chloro-3-methylphenol	U	330
91-57-6	2-methylnaphthalene	U	330
77-47-4	hexachlorocyclopentadiene	U	330
88-06-2	2,4,6-trichlorophenol	U	330
95-95-4	2,4,5-trichlorophenol	UJ	800
91-58-7	2-chloronaphthalene	U	330
88-74-4	2-nitroaniline	UJ	800
131-11-3	dimethyl phthalate	U	330
606-20-2	2,6-dinitrotoluene	U	330
208-96-8	acenaphthylene	U	330
99-09-2	3-nitroaniline	UJ	800
83-32-9	acenaphthene	U	330
51-28-5	2,4-dinitrophenol	UJ	800
100-02-7	4-nitrophenol	UJ	800
132-64-9	dibenzofuran	U	330

BB 3/19/93

TBD 5/12/93

See footnotes on page 4.

9613424.0878

ANALYTICAL REPORT FOR SAMPLE No. EK4388

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZS4 Sponsor WESTINGHOUSE HANFORD CO.

Cas. No.	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
121-14-2	2,4-dinitrotoluene	U	330
84-66-2	diethyl phthalate	U	330
7005-72-3	4-chlorophenyl-phenylether	UJ RSD	330
86-73-7	fluorene	U	330
100-01-6	4-nitroaniline	UJ	800
534-52-1	2-methyl-4,6-dinitrophenol	UJ	800
86-30-6	N-nitroso-diphenylamine	U	330
122-66-7	1,2-diphenylhydrazine	U	1000
101-55-3	4-bromophenyl-phenylether	U	330
319-84-6	~~alpha -BHC~~	U	1000
319-85-7	~~beta-BHC~~	U	5000
118-74-1	hexachlorobenzene	UJ RSD	330
87-86-5	pentachlorophenol	UJ	800
58-89-9	~~gamma- BHC~~	U	1000
85-01-8	phenanthrene	89.J	330
120-12-7	anthracene	83.J	330
319-86-8	~~delta BHC~~	U	5000
76-44-8	~~heptachlor~~	U	5000
84-74-2	di-n-butyl phthalate	U	330
309-00-2	~~aldrin~~	U	5000
1024-57-3	~~heptachlor epoxide~~	U	5000
206-44-0	fluoranthene	190.J	330
129-00-0	pyrene	180.J	330
959-98-8	~~endosulfan I~~	U	5000
72-55-9	~~4,4'DDE~~	U	5000
60-57-1	~~dieldrin~~	U	5000
7421-93-4	~~endrin aldehyde~~	U	5000
72-20-8	~~endrin~~	U	5000
72-54-8	~~4,4'DDD~~	U	5000
33213-65-9	~~endosulfan II~~	U	5000
85-68-7	butylbenzylphthalate	U	330
50-29-3	~~4,4'DDT~~	U	5000
1031-07-8	~~endosulfan sulfate~~	U	5000
72-43-5	~~p,p'-methoxychlor~~	U	1000
91-94-1	3,3'-dichlorobenzidine	U	1000
56-55-3	benzo(a)anthracene	U	330
117-81-7	bis(2-ethylhexyl)phthalate	U	330
218-01-9	chrysene	160.J	330
117-84-0	di-n-octylphthalate	U	330

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See footnotes on Page 4.

9613424.0879

ANALYTICAL REPORT FOR SAMPLE No. EK4388

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZS4 Sponsor WESTINGHOUSE HANFORD CO.

Cas. No.	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
205-99-2	benzo(b)fluoranthene	U	330
207-08-9	benzo(k)fluoranthene	U	330
50-32-8	benzo(a)pyrene	U	330
193-39-5	indeno(1,2,3-cd)pyrene	U	330
53-70-3	dibenzo(a,h)anthracene	U	330
191-24-2	benzo(g,h,i)perylene	U	330
53494-70-5	~~endrin ketone~~	U	1000
109-06-8	2-picoline	U	1000
62-50-0	ethyl methanesulfonate	U	1000
66-27-3	methyl methanesulfonate	U	1000
62-53-3	aniline	U	1000
98-86-2	acetophenone	U	1000
100-75-4	N-nitroso-piperidine	U	1000
122-09-8	a,a-dimethylphenethylamine	U	1000
87-65-0	2,6-dichlorophenol	U	1000
924-16-3	N-nitroso-di-n-butylamine	U	1000
95-94-3	1,2,4,5-tetrachlorobenzene	U	1000
90-13-1	1-chloronaphthalene	U	1000
608-93-5	pentachlorobenzene	U	1000
134-32-7	1-naphthylamine	U	1000
58-90-2	2,3,4,6-tetrachlorophenol	U	1000
91-59-8	2-naphthylamine	U	1000
62-44-2	phenacetin	U	1000
92-67-1	4-aminobiphenyl	U	1000
23950-58-5	pronamide (propyzamide)	U	1000
82-68-8	pentachloronitrobenzene	U	1000
92-87-5	benzidine	U	1000
60-11-7	p-dimethylaminoazobenzene	U	1000
57-97-6	7,12-dimethbenz(a)anthracene	U	1000
56-49-5	3-methylchloranthrene	U	1000
57-74-9	~~chlordane~~	U	10000
8001-35-2	~~toxaphene~~	U	10000
12674-11-2	PCB-1016	U	10000
11104-28-2	PCB-1221	U	10000
11141-16-5	PCB-1232	U	10000
53469-21-9	PCB-1242	U	10000
12672-29-6	PCB-1248	U	10000
11097-69-1	PCB-1254	U	10000
11096-82-5	PCB-1260	U	10000

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See footnotes on Page 4.

9613424.0880

ANALYTICAL REPORT FOR SAMPLE No. EK4389

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZS5 Sponsor WESTINGHOUSE HANFORD CO.

File ID Z010EK4389 Date Extracted 09/17/91 Date of Analysis 10/03/91

DataChem ID S91-0719BC

Cas. No	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
62-75-9	N-nitroso-dimethylamine	U	1000
108-95-2	phenol	U	330
111-44-4	bis(2-chloroethyl)ether	U	330
95-57-8	2-chlorophenol	U	330
541-73-1	1,3-dichlorobenzene	U	330
106-46-7	1,4-dichlorobenzene	U	330
100-51-6	benzyl alcohol	U	1000
95-50-1	1,2-dichlorobenzene	U	330
95-48-7	2-methylphenol	U	330
39638-329	bis(2-chloroisopropyl)ether	U	330
106-44-5	4-methylphenol	U	330
621-64-7	N-nitroso-di-n-propylamine	U	330
67-72-1	hexachloroethane	U	330
98-95-3	nitrobenzene	U	330
78-59-1	isophorone	U	330
88-75-5	2-nitrophenol	U	330
105-67-9	2,4-dimethylphenol	U	330
111-91-1	bis(2-chloroethoxy)methane	U	330
65-85-0	benzoic acid	U J	1000
120-83-2	2,4-dichlorophenol	U	330
120-82-1	1,2,4-trichlorobenzene	U	330
91-20-3	naphthalene	U	330
106-47-8	4-chloroaniline	U	330
87-68-3	hexachlorobutadiene	U	330
59-50-7	4-chloro-3-methylphenol	U	330
91-57-6	2-methylnaphthalene	U	330
77-47-4	hexachlorocyclopentadiene	U	330
88-06-2	2,4,6-trichlorophenol	U	330
95-95-4	2,4,5-trichlorophenol	U J	800
91-58-7	2-chloronaphthalene	U	330
88-74-4	2-nitroaniline	U J	800
131-11-3	dimethyl phthalate	U	330
606-20-2	2,6-dinitrotoluene	U	330
208-96-8	acenaphthylene	U	330
99-09-2	3-nitroaniline	U J	800
83-32-9	acenaphthene	27,J	330
51-28-5	2,4-dinitrophenol	U J	800
100-02-7	4-nitrophenol	U J	800
132-64-9	dibenzofuran	U	330

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See footnotes on page 4.

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ANALYTICAL REPORT FOR SAMPLE No. EK4389

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZS5 Sponsor WESTINGHOUSE HANFORD CO.

Cas. No.	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
121-14-2	2,4-dinitrotoluene	U	330
84-66-2	diethyl phthalate	U	330
7005-72-3	4-chlorophenyl-phenylether	U	330
86-73-7	fluorene	U	330
100-01-6	4-nitroaniline	U J	800
534-52-1	2-methyl-4,6-dinitrophenol	U J	800
86-30-6	N-nitroso-diphenylamine	U	330
122-66-7	1,2-diphenylhydrazine	U	1000
101-55-3	4-bromophenyl-phenylether	U	330
319-84-6	~~alpha-BHC~~	U	1000
319-85-7	~~beta-BHC~~	U	5000
118-74-1	hexachlorobenzene	U	330
87-86-5	pentachlorophenol	U J	800
58-89-9	~~gamma-BHC~~	U	1000
85-01-8	phenanthrene	360.	330
120-12-7	anthracene	35.J	330
319-86-8	~~delta-BHC~~	U	5000
76-44-8	~~heptachlor~~	U	5000
84-74-2	di-n-butyl phthalate	U	330
309-00-2	~~aldrin~~	U	5000
1024-57-3	~~heptachlor epoxide~~	U	5000
206-44-0	fluoranthene	1100.	330
129-00-0	pyrene	840.	330
959-98-8	~~endosulfan I~~	U	5000
72-55-9	~~4,4'DDE~~	U	5000
60-57-1	~~dieldrin~~	U	5000
7421-93-4	~~endrin aldehyde~~	U	5000
72-20-8	~~endrin~~	U	5000
72-54-8	~~4,4'DDD~~	U	5000
33213-65-9	~~endosulfan II~~	U	5000
85-68-7	butylbenzylphthalate	U	330
50-29-3	~~4,4'DDT~~	U	5000
1031-07-8	~~endosulfan sulfate~~	U	5000
72-43-5	~~p,p'-methoxychlor~~	U	1000
91-94-1	3,3'-dichlorobenzidine	U	1000
56-55-3	benzo(a)anthracene	95.J	330
117-81-7	bis(2-ethylhexyl)phthalate	U	330
218-01-9	chrysene	660.	330
117-84-0	di-n-octylphthalate	U	330

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See footnotes on Page 4.

9613424.0882

ANALYTICAL REPORT FOR SAMPLE No. EK4389

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZS5 Sponsor WESTINGHOUSE HANFORD CO.

Cas. No.	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
205-99-2	benzo(b)fluoranthene	290.J	330
207-08-9	benzo(k)fluoranthene	320.J	330
50-32-8	benzo(a)pyrene	72.J	330
193-39-5	indeno(1,2,3-cd)pyrene	91.J	330
53-70-3	dibenzo(a,h)anthracene	U	330
191-24-2	benzo(g,h,i)perylene	92.J	330
53494-70-5	~~endrin ketone~~	U	1000
109-06-8	2-picoline	U	1000
62-50-0	ethyl methanesulfonate	U	1000
66-27-3	methyl methanesulfonate	U	1000
62-53-3	aniline	U	1000
98-86-2	acetophenone	U	1000
100-75-4	N-nitroso-piperidine	U	1000
122-09-8	a,a-dimethylphenethylamine	U	1000
87-65-0	2,6-dichlorophenol	U	1000
924-16-3	N-nitroso-di-n-butylamine	U	1000
95-94-3	1,2,4,5-tetrachlorobenzene	U	1000
90-13-1	1-chloronaphthalene	U	1000
608-93-5	pentachlorobenzene	U	1000
134-32-7	1-naphthylamine	U	1000
58-90-2	2,3,4,6-tetrachlorophenol	U	1000
91-59-8	2-naphthylamine	U	1000
62-44-2	phenacetin	U	1000
92-67-1	4-aminobiphenyl	U	1000
23950-58-5	pronamide (propyzamide)	U	1000
82-68-8	pentachloronitrobenzene	U	1000
92-87-5	benzidine	U	1000
60-11-7	p-dimethylaminoazobenzene	U	1000
57-97-6	7,12-dimethbenz(a)anthracene	U	1000
56-49-5	3-methylchloranthrene	U	1000
57-74-9	~~chlordane~~	U	10000
8001-35-2	~~toxaphene~~	T	10000
12674-11-2	PCB-1016	U	10000
11104-28-2	PCB-1221	U	10000
11141-16-5	PCB-1232	U	10000
53469-21-9	PCB-1242	U	10000
12672-29-6	PCB-1248	U	10000
11097-69-1	PCB-1254	U	10000
11096-82-5	PCB-1260	U	10000

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See footnotes on Page 4.

9613424.0883

ANALYTICAL REPORT FOR SAMPLE No. EK4382

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID B00ZR8 Sponsor WESTINGHOUSE HANFORD CO.

File ID Z012EK4382 Date Extracted 09/17/91 Date of Analysis 10/03/91

DataChem ID S91-0719BC

Cas. No	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
62-75-9	N-nitroso-dimethylamine	U	1000
108-95-2	phenol	U	330
111-44-4	bis(2-chloroethyl)ether	U	330
95-57-8	2-chlorophenol	U	330
541-73-1	1,3-dichlorobenzene	U	330
106-46-7	1,4-dichlorobenzene	U	330
100-51-6	benzyl alcohol	U	1000
95-50-1	1,2-dichlorobenzene	U	330
95-48-7	2-methylphenol	U	330
39638-329	bis(2-chloroisopropyl)ether	U	330
106-44-5	4-methylphenol	U	330
621-64-7	N-nitroso-di-n-propylamine	U	330
67-72-1	hexachloroethane	U	330
98-95-3	nitrobenzene	U	330
78-59-1	isophorone	U	330
88-75-5	2-nitrophenol	U	330
105-67-9	2,4-dimethylphenol	U	330
111-91-1	bis(2-chloroethoxy)methane	U	330
65-85-0	benzoic acid	UJ	1000
120-83-2	2,4-dichlorophenol	U	330
120-82-1	1,2,4-trichlorobenzene	U	330
91-20-3	naphthalene	U	330
106-47-8	4-chloroaniline	U	330
87-68-3	hexachlorobutadiene	U	330
59-50-7	4-chloro-3-methylphenol	U	330
91-57-6	2-methylnaphthalene	U	330
77-47-4	hexachlorocyclopentadiene	U	330
88-06-2	2,4,6-trichlorophenol	U	330
95-95-4	2,4,5-trichlorophenol	UJ	800
91-58-7	2-chloronaphthalene	U	330
88-74-4	2-nitroaniline	UJ	800
131-11-3	dimethyl phthalate	U	330
606-20-2	2,6-dinitrotoluene	U	330
208-96-8	acenaphthylene	U	330
99-09-2	3-nitroaniline	UJ	800
83-32-9	acenaphthene	U	330
51-28-5	2,4-dinitrophenol	UJ	800
100-02-7	4-nitrophenol	UJ	800
132-64-9	dibenzofuran	U	330

KB 3/19/93

See footnotes on page 4.

PBD 5/12/93

9613424.0884

ANALYTICAL REPORT FOR SAMPLE No. EK4382

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZR8 Sponsor WESTINGHOUSE HANFORD CO.

Cas. No.	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
121-14-2	2,4-dinitrotoluene	U	330
84-66-2	diethyl phthalate	U	330
7005-72-3	4-chlorophenyl-phenylether	U	330
86-73-7	fluorene	U	330
100-01-6	4-nitroaniline	U	800
534-52-1	2-methyl-4,6-dinitrophenol	U	800
86-30-6	N-nitroso-diphenylamine	U	330
122-66-7	1,2-diphenylhydrazine	U	1000
101-55-3	4-bromophenyl-phenylether	U	330
319-84-6	~~alpha-BHC~~	U	1000
319-85-7	~~beta-BHC~~	U	5000
118-74-1	hexachlorobenzene	U	330
87-86-5	pentachlorophenol	U	800
58-89-9	~~gamma-BHC~~	U	1000
85-01-8	phenanthrene	56.J	330
120-12-7	anthracene	U	330
319-86-8	~~delta-BHC~~	U	5000
76-44-8	~~heptachlor~~	U	5000
84-74-2	di-n-butyl phthalate	62.J	330
309-00-2	~~aldrin~~	U	5000
1024-57-3	~~heptachlor epoxide~~	U	5000
206-44-0	fluoranthene	74.J	330
129-00-0	pyrene	66.J	330
959-98-8	~~endosulfan I~~	U	5000
72-55-9	~~4,4'DDE~~	U	5000
60-57-1	~~dieldrin~~	U	5000
7421-93-4	~~endrin aldehyde~~	U	5000
72-20-8	~~endrin~~	U	5000
72-54-8	~~4,4'DDD~~	U	5000
33213-65-9	~~endosulfan II~~	U	5000
85-68-7	butylbenzylphthalate	U	330
50-29-3	~~4,4'DDT~~	U	5000
1031-07-8	~~endosulfan sulfate~~	U	5000
72-43-5	~~p,p'-methoxychlor~~	U	1000
91-94-1	3,3'-dichlorobenzidine	U	1000
56-55-3	benzo(a)anthracene	U	330
117-81-7	bis(2-ethylhexyl)phthalate	U	330
218-01-9	chrysene	37.J	330
117-84-0	di-n-octylphthalate	U	330

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See footnotes on Page 4.

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ANALYTICAL REPORT FOR SAMPLE No. EK4382

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZR8 Sponsor WESTINGHOUSE HANFORD CO.

Cas. No.	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
205-99-2	benzo(b)fluoranthene	U	330
207-08-9	benzo(k)fluoranthene	U	330
50-32-8	benzo(a)pyrene	U	330
193-39-5	indeno(1,2,3-cd)pyrene	U	330
53-70-3	dibenzo(a,h)anthracene	U	330
191-24-2	benzo(g,h,i)perylene	U	330
53494-70-5	~~endrin ketone~~	U	1000
109-06-8	2-picoline	U	1000
62-50-0	ethyl methanesulfonate	U	1000
66-27-3	methyl methanesulfonate	U	1000
62-53-3	aniline	U	1000
98-86-2	acetophenone	U	1000
100-75-4	N-nitroso-piperidine	U	1000
122-09-8	a,a-dimethylphenethylamine	U	1000
87-65-0	2,6-dichlorophenol	U	1000
924-16-3	N-nitroso-di-n-butylamine	U	1000
95-94-3	1,2,4,5-tetrachlorobenzene	U	1000
90-13-1	1-chloronaphthalene	U	1000
608-93-5	pentachlorobenzene	U	1000
134-32-7	1-naphthylamine	U	1000
58-90-2	2,3,4,6-tetrachlorophenol	U	1000
91-59-8	2-naphthylamine	U	1000
62-44-2	phenacetin	U	1000
92-67-1	4-aminobiphenyl	U	1000
23950-58-5	pronamide (propyzamide)	U	1000
82-68-8	pentachloronitrobenzene	U	1000
92-87-5	benzidine	U	1000
60-11-7	p-dimethylaminoazobenzene	U	1000
57-97-6	7,12-dimethbenz(a)anthracene	U	1000
56-49-5	3-methylchloranthrene	U	1000
57-74-9	~~chlordane~~	6100.J	10000
8001-35-2	~~toxaphene~~	U	10000
12674-11-2	PCB-1016	U	10000
11104-28-2	PCB-1221	U	10000
11141-16-5	PCB-1232	U	10000
53469-21-9	PCB-1242	U	10000
12672-29-6	PCB-1248	U	10000
11097-69-1	PCB-1254	U	10000
11096-82-5	PCB-1260	U	10000

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See footnotes on Page 4.

9613424.0886

ANALYTICAL REPORT FOR SAMPLE No. EK4383

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZR9 Sponsor WESTINGHOUSE HANFORD CO.

File ID ZR7EK4383D Date Extracted 09/17/91 Date of Analysis 10/03/91

DataChem ID S91-0719BC

Cas. No	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
62-75-9	N-nitroso-dimethylamine	U R	50000
108-95-2	phenol	U	16500
111-44-4	bis(2-chloroethyl)ether	U	16500
95-57-8	2-chlorophenol	U	16500
541-73-1	1,3-dichlorobenzene	U	16500
106-46-7	1,4-dichlorobenzene	U	16500
100-51-6	benzyl alcohol	U	50000
95-50-1	1,2-dichlorobenzene	U	16500
95-48-7	2-methylphenol	U	16500
39638-329	bis(2-chloroisopropyl)ether	U	16500
106-44-5	4-methylphenol	U	16500
621-64-7	N-nitroso-di-n-propylamine	U	16500
67-72-1	hexachloroethane	U	16500
98-95-3	nitrobenzene	U	16500
78-59-1	isophorone	U	16500
88-75-5	2-nitrophenol	U	16500
105-67-9	2,4-dimethylphenol	U	16500
111-91-1	bis(2-chloroethoxy)methane	U	16500
65-85-0	benzoic acid	U	50000
120-83-2	2,4-dichlorophenol	U	16500
120-82-1	1,2,4-trichlorobenzene	U	16500
91-20-3	naphthalene	U	16500
106-47-8	4-chloroaniline	U	16500
87-68-3	hexachlorobutadiene	U	16500
59-50-7	4-chloro-3-methylphenol	U	16500
91-57-6	2-methylnaphthalene	U	16500
77-47-4	hexachlorocyclopentadiene	U	16500
88-06-2	2,4,6-trichlorophenol	U	16500
95-95-4	2,4,5-trichlorophenol	U	40000
91-58-7	2-chloronaphthalene	U	16500
88-74-4	2-nitroaniline	U J	40000
131-11-3	dimethyl phthalate	U	16500
606-20-2	2,6-dinitrotoluene	U	16500
208-96-8	acenaphthylene	U	16500
99-09-2	3-nitroaniline	U J	40000
83-32-9	acenaphthene	U	16500
51-28-5	2,4-dinitrophenol	U J	40000
100-02-7	4-nitrophenol	U J	40000
132-64-9	dibenzofuran	U J R	16500

RB 3/19/93

See footnotes on page 4.

PBD 5/12/93

9613424.0887

ANALYTICAL REPORT FOR SAMPLE No. EK4383

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZR9 Sponsor WESTINGHOUSE HANFORD CO.

Cas. No.	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
121-14-2	2,4-dinitrotoluene	~~U~~ R	16500
84-66-2	diethyl phthalate	U	16500
7005-72-3	4-chlorophenyl-phenylether	U	16500
86-73-7	fluorene	U	16500
100-01-6	4-nitroaniline	U	40000
534-52-1	2-methyl-4,6-dinitrophenol	U	40000
86-30-6	N-nitroso-diphenylamine	U	16500
122-66-7	1,2-diphenylhydrazine	U	50000
101-55-3	4-bromophenyl-phenylether	U	16500
319-84-6	~~alpha-BHC~~	U	50000
319-85-7	~~beta-BHC~~	U	250000
118-74-1	hexachlorobenzene	U	16500
87-86-5	pentachlorophenol	U	40000
58-89-9	~~gamma-BHC~~	U	50000
85-01-8	phenanthrene	U	16500
120-12-7	anthracene	U	16500
319-86-8	~~delta-BHC~~	U	250000
76-44-8	~~heptachlor~~	U	250000
84-74-2	di-n-butyl phthalate	U	16500
309-00-2	~~aldrin~~	U	250000
1024-57-3	~~heptachlor epoxide~~	U	250000
206-44-0	fluoranthene	U	16500
129-00-0	pyrene	U	16500
959-98-8	~~endosulfan I~~	U	250000
72-55-9	~~4,4'DDE~~	U	250000
60-57-1	~~dieldrin~~	U	250000
7421-93-4	~~endrin aldehyde~~	U	250000
72-20-8	~~endrin~~	U	250000
72-54-8	~~4,4'DDD~~	U	250000
33213-65-9	~~endosulfan II~~	U	250000
85-68-7	butylbenzylphthalate	U	16500
50-29-3	~~4,4'DDT~~	U	250000
1031-07-8	~~endosulfan sulfate~~	U	250000
72-43-5	~~p,p'-methoxychlor~~	U	50000
91-94-1	3,3'-dichlorobenzidine	U	50000
56-55-3	benzo(a)anthracene	U	16500
117-81-7	bis(2-ethylhexyl)phthalate	U	16500
218-01-9	chrysene	U	16500
117-84-0	di-n-octylphthalate	U	16500

RB 3/18/93

See footnotes on Page 4.

RB 5/27/93

9613424.0888

ANALYTICAL REPORT FOR SAMPLE No. EK4383

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZR9 Sponsor WESTINGHOUSE HANFORD CO.

Cas. No.	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
205-99-2	benzo(b)fluoranthene	U R	16500
207-08-9	benzo(k)fluoranthene	U	16500
50-32-8	benzo(a)pyrene	U	16500
193-39-5	indeno(1,2,3-cd)pyrene	U	16500
53-70-3	dibenzo(a,h)anthracene	U	16500
191-24-2	benzo(g,h,i)perylene	U	16500
53494-70-5	~~endrin ketone~~	U	50000
109-06-8	2-picoline	U	50000
62-50-0	ethyl methanesulfonate	U	50000
66-27-3	methyl methanesulfonate	U	50000
62-53-3	aniline	U	50000
98-86-2	acetophenone	U	50000
100-75-4	N-nitroso-piperidine	U	50000
122-09-8	a,a-dimethylphenethylamine	U	50000
87-65-0	2,6-dichlorophenol	U	50000
924-16-3	N-nitroso-di-n-butylamine	U	50000
95-94-3	1,2,4,5-tetrachlorobenzene	U	50000
90-13-1	1-chloronaphthalene	U	50000
608-93-5	pentachlorobenzene	U	50000
134-32-7	1-naphthylamine	U	50000
58-90-2	2,3,4,6-tetrachlorophenol	U	50000
91-59-8	2-naphthylamine	U	50000
62-44-2	phenacetin	U	50000
92-67-1	4-aminobiphenyl	U	50000
23950-58-5	pronamide (propyzamide)	U	50000
82-68-8	pentachloronitrobenzene	U	50000
92-87-5	benzidine	U	50000
60-11-7	p-dimethylaminoazobenzene	U	50000
57-97-6	7,12-dimethbenz(a)anthracene	U	50000
56-49-5	3-methylchloranthrene	U	50000
57-74-9	~~chlordane~~	U	500000
8001-35-2	~~toxaphene~~	U	500000
12674-11-2	PCB-1016	U	500000
11104-28-2	PCB-1221	U	500000
11141-16-5	PCB-1232	U	500000
53469-21-9	PCB-1242	U	500000
12672-29-6	PCB-1248	U	500000
11097-69-1	PCB-1254	U	500000
11096-82-5	PCB-1260	U	500000

RB 9/19/93

See footnotes on Page 4.

9613424.0889

ANALYTICAL REPORT FOR SAMPLE No. EK4377

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZR3 Sponsor WESTINGHOUSE HANFORD CO.

File ID ZR10EK4377D Date Extracted 09/17/91 Date of Analysis 10/03/91

DataChem ID S91-0719BC

Cas. No	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
62-75-9	N-nitroso-dimethylamine	U	10000
108-95-2	phenol	U	3300
111-44-4	bis(2-chloroethyl)ether	U	3300
95-57-8	2-chlorophenol	U	3300
541-73-1	1,3-dichlorobenzene	U	3300
106-46-7	1,4-dichlorobenzene	U	3300
100-51-6	benzyl alcohol	U	10000
95-50-1	1,2-dichlorobenzene	U	3300
95-48-7	2-methylphenol	U	3300
39638-329	bis(2-chloroisopropyl)ether	U	3300
106-44-5	4-methylphenol	U	3300
621-64-7	N-nitroso-di-n-propylamine	U	3300
67-72-1	hexachloroethane	U	3300
98-95-3	nitrobenzene	U	3300
78-59-1	isophorone	U	3300
88-75-5	2-nitrophenol	U	3300
105-67-9	2,4-dimethylphenol	U	3300
111-91-1	bis(2-chloroethoxy)methane	U	3300
65-85-0	benzoic acid	UJ	10000
120-83-2	2,4-dichlorophenol	U	3300
120-82-1	1,2,4-trichlorobenzene	U	3300
91-20-3	naphthalene	U	3300
106-47-8	4-chloroaniline	U	3300
87-68-3	hexachlorobutadiene	U	3300
59-50-7	4-chloro-3-methylphenol	U	3300
91-57-6	2-methylnaphthalene	U	3300
77-47-4	hexachlorocyclopentadiene	U	3300
88-06-2	2,4,6-trichlorophenol	U	3300
95-95-4	2,4,5-trichlorophenol	UJ	8000
91-58-7	2-chloronaphthalene	U	3300
88-74-4	2-nitroaniline	UJ	8000
131-11-3	dimethyl phthalate	U	3300
606-20-2	2,6-dinitrotoluene	U	3300
208-96-8	acenaphthylene	UJ	3300
99-09-2	3-nitroaniline	UJ	8000
83-32-9	acenaphthene	U	3300
51-28-5	2,4-dinitrophenol	UJ	8000
100-02-7	4-nitrophenol	UJ	8000
132-64-9	dibenzofuran	U	3300

BB 3/29/93

See footnotes on page 4.

RB 5/27/93

PBD 5/12/93

9613424.0890

ANALYTICAL REPORT FOR SAMPLE No. EK4377

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZR3 Sponsor WESTINGHOUSE HANFORD CO.

Cas. No.	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
121-14-2	2,4-dinitrotoluene	U	3300
84-66-2	diethyl phthalate	U	3300
7005-72-3	4-chlorophenyl-phenylether	U	3300
86-73-7	fluorene	U	3300
100-01-6	4-nitroaniline	UJ	8000
534-52-1	2-methyl-4,6-dinitrophenol	UJ	8000
86-30-6	N-nitroso-diphenylamine	U	3300
122-66-7	1,2-diphenylhydrazine	U	10000
101-55-3	4-bromophenyl-phenylether	U	3300
319-84-6	~~alpha.-BHC~~	U	10000
319-85-7	~~beta-BHC~~	U	50000
118-74-1	hexachlorobenzene	U	3300
87-86-5	pentachlorophenol	UJ	8000
58-89-9	~~gamma-BHC~~	U	10000
85-01-8	phenanthrene	1300.J	3300
120-12-7	anthracene	U	3300
319-86-8	~~delta-BHC~~	U	50000
76-44-8	~~heptachlor~~	U	50000
84-74-2	di-n-butyl phthalate	U	3300
309-00-2	~~aldrin~~	U	50000
1024-57-3	~~heptachlor epoxide~~	U	50000
206-44-0	fluoranthene	1300.J	3300
129-00-0	pyrene	1000.J	3300
959-98-8	~~endosulfan I~~	U	50000
72-55-9	~~4,4'DDE~~	U	50000
60-57-1	~~dieldrin~~	U	50000
7421-93-4	~~endrin aldehyde~~	U	50000
72-20-8	~~endrin~~	U	50000
72-54-8	~~4,4'DDD~~	U	50000
33213-65-9	~~endosulfan II~~	U	50000
85-68-7	butylbenzylphthalate	U	3300
50-29-3	~~4,4'DDT~~	U	50000
1031-07-8	~~endosulfan sulfate~~	U	50000
72-43-5	~~p,p'-methoxychlor~~	U	10000
91-94-1	3,3'-dichlorobenzidine	U	10000
56-55-3	benzo(a)anthracene	310.J	3300
117-81-7	bis(2-ethylhexyl)phthalate	280.J	3300
218-01-9	chrysene	860.J	3300
117-84-0	di-n-octylphthalate	U	3300

BB 3/19/93

See footnotes on Page 4.

9613424.0891

ANALYTICAL REPORT FOR SAMPLE No. EK4377

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZR3 Sponsor WESTINGHOUSE HANFORD CO.

Cas. No.	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
205-99-2	benzo(b)fluoranthene	310.J	3300
207-08-9	benzo(k)fluoranthene	400.J	3300
50-32-8	benzo(a)pyrene	300.J	3300
193-39-5	indeno(1,2,3-cd)pyrene	U	3300
53-70-3	dibenzo(a,h)anthracene	U	3300
191-24-2	benzo(g,h,i)perylene	U	3300
53494-70-5	~~endrin ketone~~	U	10000
109-06-8	2-picoline	U	10000
62-50-0	ethyl methanesulfonate	U	10000
66-27-3	methyl methanesulfonate	U	10000
62-53-3	aniline	U	10000
98-86-2	acetophenone	U	10000
100-75-4	N-nitroso-piperidine	U	10000
122-09-8	a,a-dimethylphenethylamine	U	10000
87-65-0	2,6-dichlorophenol	U	10000
924-16-3	N-nitroso-di-n-butylamine	U	10000
95-94-3	1,2,4,5-tetrachlorobenzene	U	10000
90-13-1	1-chloronaphthalene	U	10000
608-93-5	pentachlorobenzene	U	10000
134-32-7	1-naphthylamine	U	10000
58-90-2	2,3,4,6-tetrachlorophenol	U	10000
91-59-8	2-naphthylamine	U	10000
62-44-2	phenacetin	U	10000
92-67-1	4-aminobiphenyl	U	10000
23950-58-5	pronamide (propyzamide)	U	10000
82-68-8	pentachloronitrobenzene	U	10000
92-87-5	benzidine	U	10000
60-11-7	p-dimethylaminoazobenzene	U	10000
57-97-6	7,12-dimethbenz(a)anthracene	U	10000
56-49-5	3-methylchloranthrene	U	10000
57-74-9	~~chlordane~~	U	100000
8001-35-2	~~toxaphene~~	U	100000
12674-11-2	~~PCB-1016~~	P	100000
11104-28-2	~~PCB-1221~~	P	100000
11141-16-5	~~PCB-1232~~	P	100000
53469-21-9	~~PCB-1242~~	P	100000
12672-29-6	~~PCB-1248~~	P	100000
11097-69-1	~~PCB-1254~~	P	100000
11096-82-5	~~PCB-1260~~	P	100000

BB 8/19/93

See footnotes on Page 4.

9613424.0892

ANALYTICAL REPORT FOR SAMPLE No. EK4378

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZR4 Sponsor WESTINGHOUSE HANFORD CO.

File ID Z014EK4378 Date Extracted 09/17/91 Date of Analysis 10/03/91

DataChem ID S91-0719BC

Cas. No	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
62-75-9	N-nitroso-dimethylamine	U	10000
108-95-2	phenol	U	3300
111-44-4	bis(2-chloroethyl)ether	U	3300
95-57-8	2-chlorophenol	U	3300
541-73-1	1,3-dichlorobenzene	U	3300
106-46-7	1,4-dichlorobenzene	U	3300
100-51-6	benzyl alcohol	U	10000
95-50-1	1,2-dichlorobenzene	U	3300
95-48-7	2-methylphenol	U	3300
39638-329	bis(2-chloroisopropyl)ether	U	3300
106-44-5	4-methylphenol	U	3300
621-64-7	N-nitroso-di-n-propylamine	U	3300
67-72-1	hexachloroethane	U	3300
98-95-3	nitrobenzene	U	3300
78-59-1	isophorone	U	3300
88-75-5	2-nitrophenol	U	3300
105-67-9	2,4-dimethylphenol	U	3300
111-91-1	bis(2-chloroethoxy)methane	U	3300
65-85-0	benzoic acid	UJ	10000
120-83-2	2,4-dichlorophenol	U	3300
120-82-1	1,2,4-trichlorobenzene	U	3300
91-20-3	naphthalene	U	3300
106-47-8	4-chloroaniline	U	3300
87-68-3	hexachlorobutadiene	U	3300
59-50-7	4-chloro-3-methylphenol	U	3300
91-57-6	2-methylnaphthalene	U	3300
77-47-4	hexachlorocyclopentadiene	U	3300
88-06-2	2,4,6-trichlorophenol	U	3300
95-95-4	2,4,5-trichlorophenol	UJ	8000
91-58-7	2-chloronaphthalene	U	3300
88-74-4	2-nitroaniline	UJ	8000
131-11-3	dimethyl phthalate	U	3300
606-20-2	2,6-dinitrotoluene	U	3300
208-96-8	acenaphthylene	U	3300
99-09-2	3-nitroaniline	UJ	8000
83-32-9	acenaphthene	U	3300
51-28-5	2,4-dinitrophenol	UJ	8000
100-02-7	4-nitrophenol	UJ	8000
132-64-9	dibenzofuran	U	3300

See footnotes on page 4.

5/12/95

9613424.0893

ANALYTICAL REPORT FOR SAMPLE No. EK4378

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZR4 Sponsor WESTINGHOUSE HANFORD CO.

Cas. No.	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
121-14-2	2,4-dinitrotoluene	U	3300
84-66-2	diethyl phthalate	U	3300
7005-72-3	4-chlorophenyl-phenylether	U	3300
86-73-7	fluorene	U	3300
100-01-6	4-nitroaniline	UJ	8000
534-52-1	2-methyl-4,6-dinitrophenol	UJ	8000
86-30-6	N-nitroso-diphenylamine	U	3300
122-66-7	1,2-diphenylhydrazine	U	10000
101-55-3	4-bromophenyl-phenylether	U	3300
319-84-6	~~alpha- BHC~~	U	10000
319-85-7	~~beta BHC~~	U	50000
118-74-1	hexachlorobenzene	U	3300
87-86-5	pentachlorophenol	4000.J	8000
58-89-9	~~gamma- BHC~~	U	10000
85-01-8	phenanthrene	1000.J	3300
120-12-7	anthracene	U	3300
319-86-8	~~delta-BHC~~	U	50000
76-44-8	~~heptachlor~~	U	50000
84-74-2	di-n-butyl phthalate	U	3300
309-00-2	~~aldrin~~	U	50000
1024-57-3	~~heptachlor epoxide~~	U	50000
206-44-0	fluoranthene	900.J	3300
129-00-0	pyrene	710.J	3300
959-98-8	~~endosulfan I~~	U	50000
72-55-9	~~4,4'DDE~~	U	50000
60-57-1	~~dieldrin~~	U	50000
7421-93-4	~~endrin aldehyde~~	U	50000
72-20-8	~~endrin~~	U	50000
72-54-8	~~4,4'DDD~~	U	50000
33213-65-9	~~endosulfan II~~	U	50000
85-68-7	butylbenzylphthalate	U	3300
50-29-3	~~4,4'DDT~~	U	50000
1031-07-8	~~endosulfan sulfate~~	U	50000
72-43-5	~~p,p' methoxychlor~~	U	10000
91-94-1	3,3'-dichlorobenzidine	U	10000
56-55-3	benzo(a)anthracene	U	3300
117-81-7	bis(2-ethylhexyl)phthalate	U	3300
218-01-9	chrysene	1200.J	3300
117-84-0	di-n-octylphthalate	U	3300

RB 3/19/93

See footnotes on Page 4.

9613424.0894

ANALYTICAL REPORT FOR SAMPLE No. EK4378

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZR4 Sponsor WESTINGHOUSE HANFORD CO.

Cas. No.	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
205-99-2	benzo(b)fluoranthene	U	3300
207-08-9	benzo(k)fluoranthene	U	3300
50-32-8	benzo(a)pyrene	U	3300
193-39-5	indeno(1,2,3-cd)pyrene	U	3300
53-70-3	dibenzo(a,h)anthracene	U	3300
191-24-2	benzo(g,h,i)perylene	U	3300
53494-70-5	~~endrin ketone~~	U	10000
109-06-8	2-picoline	U	10000
62-50-0	ethyl methanesulfonate	U	10000
66-27-3	methyl methanesulfonate	U	10000
62-53-3	aniline	U	10000
98-86-2	acetophenone	U	10000
100-75-4	N-nitroso-piperidine	U	10000
122-09-8	a,a-dimethylphenethylamine	U	10000
87-65-0	2,6-dichlorophenol	U	10000
924-16-3	N-nitroso-di-n-butylamine	U	10000
95-94-3	1,2,4,5-tetrachlorobenzene	U	10000
90-13-1	1-chloronaphthalene	U	10000
608-93-5	pentachlorobenzene	U	10000
134-32-7	1-naphthylamine	U	10000
58-90-2	2,3,4,6-tetrachlorophenol	U	10000
91-59-8	2-naphthylamine	U	10000
62-44-2	phenacetin	U	10000
92-67-1	4-aminobiphenyl	U	10000
23950-58-5	pronamide (propyzamide)	U	10000
82-68-8	pentachloronitrobenzene	U	10000
92-87-5	benzidine	U	10000
60-11-7	p-dimethylaminoazobenzene	U	10000
57-97-6	7,12-dimethbenz(a)anthracene	U	10000
56-49-5	3-methylchloranthrene	U	10000
57-74-9	~~chlordane~~	15000.	100000
8001-35-2	~~toxaphene~~	U	100000
12674-11-2	PCB-1016	U	100000
11104-28-2	PCB-1221	U	100000
11141-16-5	PCB-1232	U	100000
53469-21-9	PCB-1242	U	100000
12672-29-6	PCB-1248	U	100000
11097-69-1	PCB-1254	U	100000
11096-82-5	PCB-1260	U	100000

KB 3/19/93

See footnotes on Page 4.

9613424.0895

ANALYTICAL REPORT FOR SAMPLE No. EK4379

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID B00ZR5 Sponsor WESTINGHOUSE HANFORD CO.

File ID Z013EK4379 Date Extracted 09/17/91 Date of Analysis 10/03/91

DataChem ID S91-0719BC

Cas. No	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
62-75-9	N-nitroso-dimethylamine	U	1000
108-95-2	phenol	U	330
111-44-4	bis(2-chloroethyl)ether	U	330
95-57-8	2-chlorophenol	U	330
541-73-1	1,3-dichlorobenzene	U	330
106-46-7	1,4-dichlorobenzene	U	330
100-51-6	benzyl alcohol	U	1000
95-50-1	1,2-dichlorobenzene	U	330
95-48-7	2-methylphenol	U	330
39638-329	bis(2-chloroisopropyl)ether	U	330
106-44-5	4-methylphenol	U	330
621-64-7	N-nitroso-di-n-propylamine	U	330
67-72-1	hexachloroethane	U	330
98-95-3	nitrobenzene	U	330
78-59-1	isophorone	U	330
88-75-5	2-nitrophenol	U	330
105-67-9	2,4-dimethylphenol	U	330
111-91-1	bis(2-chloroethoxy)methane	U	330
65-85-0	benzoic acid	U J	1000
120-83-2	2,4-dichlorophenol	U	330
120-82-1	1,2,4-trichlorobenzene	U	330
91-20-3	naphthalene	24.J	330
106-47-8	4-chloroaniline	U	330
87-68-3	hexachlorobutadiene	U	330
59-50-7	4-chloro-3-methylphenol	U	330
91-57-6	2-methylnaphthalene	U	330
77-47-4	hexachlorocyclopentadiene	U	330
88-06-2	2,4,6-trichlorophenol	U	330
95-95-4	2,4,5-trichlorophenol	U J	800
91-58-7	2-chloronaphthalene	U	330
88-74-4	2-nitroaniline	U J	800
131-11-3	dimethyl phthalate	U	330
606-20-2	2,6-dinitrotoluene	U	330
208-96-8	acenaphthylene	20.J	330
99-09-2	3-nitroaniline	U J	800
83-32-9	acenaphthene	U	330
51-28-5	2,4-dinitrophenol	U J	800
100-02-7	4-nitrophenol	U J	800
132-64-9	dibenzofuran	U	330

See footnotes on page 4.

PBD 5/12/93

9613424.0896

ANALYTICAL REPORT FOR SAMPLE No. EK4379

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZR5 Sponsor WESTINGHOUSE HANFORD CO.

Cas. No.	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
121-14-2	2,4-dinitrotoluene	U	330
84-66-2	diethyl phthalate	170.J	330
7005-72-3	4-chlorophenyl-phenylether	U	330
86-73-7	fluorene	U	330
100-01-6	4-nitroaniline	UJ	800
534-52-1	2-methyl-4,6-dinitrophenol	UJ	800
86-30-6	N-nitroso-diphenylamine	U	330
122-66-7	1,2-diphenylhydrazine	U	1000
101-55-3	4-bromophenyl-phenylether	U	330
319-84-6	~~.alpha.-BHC~~	U	1000
319-85-7	~~beta~~-BHC	U	5000
118-74-1	hexachlorobenzene	U	330
87-86-5	pentachlorophenol	5100.	800
58-89-9	~~.gamma.-BHC~~	U	1000
85-01-8	phenanthrene	480.	330
120-12-7	anthracene	17.J	330
319-86-8	~~delta-BHC~~	U	5000
76-44-8	~~heptachlor~~	U	5000
84-74-2	di-n-butyl phthalate	20.J	330
309-00-2	~~aldrin~~	U	5000
1024-57-3	~~heptachlor epoxide~~	U	5000
206-44-0	fluoranthene	470.	330
129-00-0	pyrene	400.	330
959-98-8	~~endosulfan I~~	U	5000
72-55-9	~~4,4'DDE~~	U	5000
60-57-1	~~dieldrin~~	U	5000
7421-93-4	~~endrin aldehyde~~	U	5000
72-20-8	~~endrin~~	U	5000
72-54-8	~~4,4'DDD~~	U	5000
33213-65-9	~~endosulfan II~~	U	5000
85-68-7	butylbenzylphthalate	U	330
50-29-3	~~4,4'DDT~~	U	5000
1031-07-8	~~endosulfan sulfate~~	U	5000
72-43-5	~~p,p'-methoxychlor~~	U	1000
91-94-1	3,3'-dichlorobenzidine	U	1000
56-55-3	benzo(a)anthracene	81.J	330
117-81-7	bis(2-ethylhexyl)phthalate	U	330
218-01-9	chrysene	300.J	330
117-84-0	di-n-octylphthalate	U	330

BB 3/19/93

See footnotes on Page 4.

9613424.0897

ANALYTICAL REPORT FOR SAMPLE No. EK4379

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZR5 Sponsor WESTINGHOUSE HANFORD CO.

Cas. No.	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
205-99-2	benzo(b)fluoranthene	160.J	330
207-08-9	benzo(k)fluoranthene	170.J	330
50-32-8	benzo(a)pyrene	86.J	330
193-39-5	indeno(1,2,3-cd)pyrene	U	330
53-70-3	dibenzo(a,h)anthracene	U	330
191-24-2	benzo(g,h,i)perylene	U	330
53494-70-5	~~endrin ketone~~	U	1000
109-06-8	2-picoline	U	1000
62-50-0	ethyl methanesulfonate	U	1000
66-27-3	methyl methanesulfonate	U	1000
62-53-3	aniline	U	1000
98-86-2	acetophenone	U	1000
100-75-4	N-nitroso-piperidine	U	1000
122-09-8	a,a-dimethylphenethylamine	U	1000
87-65-0	2,6-dichlorophenol	U	1000
924-16-3	N-nitroso-di-n-butylamine	U	1000
95-94-3	1,2,4,5-tetrachlorobenzene	U	1000
90-13-1	1-chloronaphthalene	U	1000
608-93-5	pentachlorobenzene	U	1000
134-32-7	1-naphthylamine	U	1000
58-90-2	2,3,4,6-tetrachlorophenol	120.J	1000
91-59-8	2-naphthylamine	U	1000
62-44-2	phenacetin	U	1000
92-67-1	4-aminobiphenyl	U	1000
23950-58-5	pronamide (propyzamide)	U	1000
82-68-8	pentachloronitrobenzene	U	1000
92-87-5	benzidine	U	1000
60-11-7	p-dimethylaminoazobenzene	U	1000
57-97-6	7,12-dimethbenz(a)anthracene	U	1000
56-49-5	3-methylchloranthrene	U	1000
57-74-9	~~chlordane~~	26000.	10000
8001-35-2	~~toxaphene~~	T	10000
12674-11-2	PCB-1016	U	10000
11104-28-2	PCB-1221	U	10000
11141-16-5	PCB-1232	U	10000
53469-21-9	PCB-1242	U	10000
12672-29-6	PCB-1248	U	10000
11097-69-1	PCB-1254	U	10000
11096-82-5	PCB-1260	U	10000

RB 3/19/93

See footnotes on Page 4.

9613424.0898

ANALYTICAL REPORT FOR SAMPLE No. EK4380

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZR6 Sponsor WESTINGHOUSE HANFORD CO.

File ID AE3EK4380 Date Extracted 09/17/91 Date of Analysis 10/15/91

DataChem ID S91-0719BC

Cas. No	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
62-75-9	N-nitroso-dimethylamine	U R	100000
108-95-2	phenol	U	33000
111-44-4	bis(2-chloroethyl)ether	U	33000
95-57-8	2-chlorophenol	U	33000
541-73-1	1,3-dichlorobenzene	U	33000
106-46-7	1,4-dichlorobenzene	U	33000
100-51-6	benzyl alcohol	U	100000
95-50-1	1,2-dichlorobenzene	U	33000
95-48-7	2-methylphenol	U	33000
39638-329	bis(2-chloroisopropyl)ether	U	33000
106-44-5	4-methylphenol	U	33000
621-64-7	N-nitroso-di-n-propylamine	U	33000
67-72-1	hexachloroethane	U	33000
98-95-3	nitrobenzene	U	33000
78-59-1	isophorone	U	33000
88-75-5	2-nitrophenol	U	33000
105-67-9	2,4-dimethylphenol	U	33000
111-91-1	bis(2-chloroethoxy)methane	U	33000
65-85-0	benzoic acid	U	100000
120-83-2	2,4-dichlorophenol	U	33000
120-82-1	1,2,4-trichlorobenzene	110000.	33000
91-20-3	naphthalene	U	33000
106-47-8	4-chloroaniline	U	33000
87-68-3	hexachlorobutadiene	U	33000
59-50-7	4-chloro-3-methylphenol	U	33000
91-57-6	2-methylnaphthalene	U	33000
77-47-4	hexachlorocyclopentadiene	U	33000
88-06-2	2,4,6-trichlorophenol	U	33000
95-95-4	2,4,5-trichlorophenol	U	80000
91-58-7	2-chloronaphthalene	U	33000
88-74-4	2-nitroaniline	U	80000
131-11-3	dimethyl phthalate	U	33000
606-20-2	2,6-dinitrotoluene	U	33000
208-96-8	acenaphthylene	U	33000
99-09-2	3-nitroaniline	U	80000
83-32-9	acenaphthene	U	33000
51-28-5	2,4-dinitrophenol	U	80000
100-02-7	4-nitrophenol	U	80000
132-64-9	dibenzofuran	U	33000

RB 3/19/93 Run times do not agree

See footnotes on page 4.

RB 5/12/93

9613424.0899

ANALYTICAL REPORT FOR SAMPLE No. EK4380

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZR6 Sponsor WESTINGHOUSE HANFORD CO.

Cas. No.	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
121-14-2	2,4-dinitrotoluene	U R	33000
84-66-2	diethyl phthalate	U	33000
7005-72-3	4-chlorophenyl-phenylether	U	33000
86-73-7	fluorene	U	33000
100-01-6	4-nitroaniline	U	80000
534-52-1	2-methyl-4,6-dinitrophenol	U	80000
86-30-6	N-nitroso-diphenylamine	U	33000
122-66-7	1,2-diphenylhydrazine	U	100000
101-55-3	4-bromophenyl-phenylether	U	33000
319-84-6	~~alpha -BHC~~	U	100000
319-85-7	~~beta BHC~~	U	500000
118-74-1	hexachlorobenzene	U	33000
87-86-5	pentachlorophenol	U	80000
58-89-9	~~gamma -BHC~~	U	100000
85-01-8	phenanthrene	U	33000
120-12-7	anthracene	U	33000
319-86-8	~~delta BHC~~	U	500000
76-44-8	~~heptachlor~~	U	500000
84-74-2	di-n-butyl phthalate	U	33000
309-00-2	~~aldrin~~	U	500000
1024-57-3	~~heptachlor epoxide~~	U	500000
206-44-0	fluoranthene	U	33000
129-00-0	pyrene	U	33000
959-98-8	~~endosulfan I~~	U	500000
72-55-9	~~4,4'DDE~~	U	500000
60-57-1	~~dieldrin~~	U	500000
7421-93-4	~~endrin aldehyde~~	U	500000
72-20-8	~~endrin~~	U	500000
72-54-8	~~4,4'DDD~~	U	500000
33213-65-9	~~endosulfan II~~	U	500000
85-68-7	butylbenzylphthalate	U	33000
50-29-3	~~4,4'DDT~~	U	500000
1031-07-8	~~endosulfan sulfate~~	U	500000
72-43-5	~~p,p'-methoxychlor~~	U	100000
91-94-1	3,3'-dichlorobenzidine	U	100000
56-55-3	benzo(a)anthracene	U	33000
117-81-7	bis(2-ethylhexyl)phthalate	U	33000
218-01-9	chrysene	U	33000
117-84-0	di-n-octylphthalate	U	33000

RB 7/14/93 Run times do not agree

See footnotes on Page 4.

RB 5/27/93

9613424.0900

ANALYTICAL REPORT FOR SAMPLE No. EK4380

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZR6 Sponsor WESTINGHOUSE HANFORD CO.

Cas. No.	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
205-99-2	benzo(b)fluoranthene	U R	33000
207-08-9	benzo(k)fluoranthene	U	33000
50-32-8	benzo(a)pyrene	U	33000
193-39-5	indeno(1,2,3-cd)pyrene	U	33000
53-70-3	dibenzo(a,h)anthracene	U	33000
191-24-2	benzo(g,h,i)perylene	U	33000
53494-70-5	~~endrin ketone~~	U	100000
109-06-8	2-picoline	U	100000
62-50-0	ethyl methanesulfonate	U	100000
66-27-3	methyl methanesulfonate	U	100000
62-53-3	aniline	U	100000
98-86-2	acetophenone	U	100000
100-75-4	N-nitroso-piperidine	U	100000
122-09-8	a,a-dimethylphenethylamine	U	100000
87-65-0	2,6-dichlorophenol	U	100000
924-16-3	N-nitroso-di-n-butylamine	U	100000
95-94-3	1,2,4,5-tetrachlorobenzene	54000. U	100000
90-13-1	1-chloronaphthalene	U	100000
608-93-5	pentachlorobenzene	230000.	100000
134-32-7	1-naphthylamine	U	100000
58-90-2	2,3,4,6-tetrachlorophenol	U	100000
91-59-8	2-naphthylamine	U	100000
62-44-2	phenacetin	U	100000
92-67-1	4-aminobiphenyl	U	100000
23950-58-5	pronamide (propyzamide)	U	100000
82-68-8	pentachloronitrobenzene	U	100000
92-87-5	benzidine	U	100000
60-11-7	p-dimethylaminoazobenzene	U	100000
57-97-6	7,12-dimethbenz(a)anthracene	U	100000
56-49-5	3-methylchloranthrene	U	100000
57-74-9	~~chlordane~~	U	1000000
8001-35-2	~~toxaphene~~	U	1000000
12674-11-2	~~PCB-1016~~	P	1000000
11104-28-2	~~PCB-1221~~	P	1000000
11141-16-5	~~PCB-1232~~	P	1000000
53469-21-9	~~PCB-1242~~	P	1000000
12672-29-6	~~PCB-1248~~	P	1000000
11097-69-1	~~PCB-1254~~	P	1000000
11096-82-5	~~PCB-1260~~	P	1000000

RR 3/19/93

Run times do not agree

See footnotes on Page 4.

9613424.0901

ANALYTICAL REPORT FOR SAMPLE No. EK4374

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZR0 Sponsor WESTINGHOUSE HANFORD CO.

File ID ZS13EK4374D Date Extracted 09/17/91 Date of Analysis 10/04/91

DataChem ID S91-0719BC

Cas. No	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
62-75-9	N-nitroso-dimethylamine	U	10000
108-95-2	phenol	U	3300
111-44-4	bis(2-chloroethyl)ether	U	3300
95-57-8	2-chlorophenol	U	3300
541-73-1	1,3-dichlorobenzene	U	3300
106-46-7	1,4-dichlorobenzene	U	3300
100-51-6	benzyl alcohol	U	10000
95-50-1	1,2-dichlorobenzene	U	3300
95-48-7	2-methylphenol	U	3300
39638-329	bis(2-chloroisopropyl)ether	U	3300
106-44-5	4-methylphenol	U	3300
621-64-7	N-nitroso-di-n-propylamine	U	3300
67-72-1	hexachloroethane	U	3300
98-95-3	nitrobenzene	U	3300
78-59-1	isophorone	U	3300
88-75-5	2-nitrophenol	U	3300
105-67-9	2,4-dimethylphenol	U	3300
111-91-1	bis(2-chloroethoxy)methane	U	3300
65-85-0	benzoic acid	UJ	10000
120-83-2	2,4-dichlorophenol	U	3300
120-82-1	1,2,4-trichlorobenzene	U	3300
91-20-3	naphthalene	2200.J	3300
106-47-8	4-chloroaniline	U	3300
87-68-3	hexachlorobutadiene	U	3300
59-50-7	4-chloro-3-methylphenol	U	3300
91-57-6	2-methylnaphthalene	U	3300
77-47-4	hexachlorocyclopentadiene	U	3300
88-06-2	2,4,6-trichlorophenol	U	3300
95-95-4	2,4,5-trichlorophenol	UJ	8000
91-58-7	2-chloronaphthalene	U	3300
88-74-4	2-nitroaniline	UJ	8000
131-11-3	dimethyl phthalate	U	3300
606-20-2	2,6-dinitrotoluene	U	3300
208-96-8	acenaphthylene	U	3300
99-09-2	3-nitroaniline	UJ	8000
83-32-9	acenaphthene	2900.J	3300
51-28-5	2,4-dinitrophenol	UJ	8000
100-02-7	4-nitrophenol	UJ	8000
132-64-9	dibenzofuran	1800.J	3300

PBD 5/12/93

See footnotes on page 4.

9613424.0902

ANALYTICAL REPORT FOR SAMPLE No. EK4374

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZR0 Sponsor WESTINGHOUSE HANFORD CO.

Cas. No.	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
121-14-2	2,4-dinitrotoluene	U	3300
84-66-2	diethyl phthalate	U	3300
7005-72-3	4-chlorophenyl-phenylether	U	3300
86-73-7	fluorene	2300.J	3300
100-01-6	4-nitroaniline	UJ	8000
534-52-1	2-methyl-4,6-dinitrophenol	UJ	8000
86-30-6	N-nitroso-diphenylamine	U	3300
122-66-7	1,2-diphenylhydrazine	U	10000
101-55-3	4-bromophenyl-phenylether	U	3300
319-84-6	.alpha.-BHC	U	10000
319-85-7	beta-BHC	U	50000
118-74-1	hexachlorobenzene	U	3300
87-86-5	pentachlorophenol	UJ	8000
58-89-9	.gamma.-BHC	U	10000
85-01-8	phenanthrene	31000.	3300
120-12-7	anthracene	4100.	3300
319-86-8	delta-BHC	U	50000
76-44-8	heptachlor	U	50000
84-74-2	di-n-butyl phthalate	U	3300
309-00-2	aldrin	U	50000
1024-57-3	heptachlor epoxide	U	50000
206-44-0	fluoranthene	32000.	3300
129-00-0	pyrene	29000.	3300
959-98-8	endosulfan I	U	50000
72-55-9	4,4'DDE	U	50000
60-57-1	dieldrin	U	50000
7421-93-4	endrin aldehyde	U	50000
72-20-8	endrin	U	50000
72-54-8	4,4'DDD	U	50000
33213-65-9	endosulfan II	U	50000
85-68-7	butylbenzylphthalate	U	3300
50-29-3	4,4'DDT	U	50000
1031-07-8	endosulfan sulfate	U	50000
72-43-5	p,p'-methoxychlor	U	10000
91-94-1	3,3'-dichlorobenzidine	U	10000
56-55-3	benzo(a)anthracene	12000.	3300
117-81-7	bis(2-ethylhexyl)phthalate	U	3300
218-01-9	chrysene	16000.	3300
117-84-0	di-n-octylphthalate	U	3300

NRR

AJS 3/11/93

See footnotes on Page 4.

9613424.0903

ANALYTICAL REPORT FOR SAMPLE No. EK4374

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZR0 Sponsor WESTINGHOUSE HANFORD CO.

Cas. No.	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
205-99-2	benzo(b)fluoranthene	11000.	3300
207-08-9	benzo(k)fluoranthene	10000.	3300
50-32-8	benzo(a)pyrene	10000.	3300
193-39-5	indeno(1,2,3-cd)pyrene	7500.	3300
53-70-3	dibenzo(a,h)anthracene	2600.J	3300
191-24-2	benzo(g,h,i)perylene	9100.	3300
53494-70-5	~~endrin ketone~~	~~U~~	10000
109-06-8	2-picoline	U	10000
62-50-0	ethyl methanesulfonate	U	10000
66-27-3	methyl methanesulfonate	U	10000
62-53-3	aniline	U	10000
98-86-2	acetophenone	U	10000
100-75-4	N-nitroso-piperidine	U	10000
122-09-8	a,a-dimethylphenethylamine	U	10000
87-65-0	2,6-dichlorophenol	U	10000
924-16-3	N-nitroso-di-n-butylamine	U	10000
95-94-3	1,2,4,5-tetrachlorobenzene	U	10000
90-13-1	1-chloronaphthalene	U	10000
608-93-5	pentachlorobenzene	U	10000
134-32-7	1-naphthylamine	U	10000
58-90-2	2,3,4,6-tetrachlorophenol	U	10000
91-59-8	2-naphthylamine	U	10000
62-44-2	phenacetin	U	10000
92-67-1	4-aminobiphenyl	U	10000
23950-58-5	pronamide (propyzamide)	U	10000
82-68-8	pentachloronitrobenzene	U	10000
92-87-5	benzidine	U	10000
60-11-7	p-dimethylaminoazobenzene	U	10000
57-97-6	7,12-dimethbenz(a)anthracene	U	10000
56-49-5	3-methylchloranthrene	U	10000
57-74-9	~~chlordane~~	U	100000
8001-35-2	~~toxaphene~~	U	100000
12674-11-2	~~PCB-1016~~	U	100000
11104-28-2	~~PCB-1221~~	U	100000
11141-16-5	~~PCB-1232~~	U	100000
53469-21-9	~~PCB-1242~~	U	100000
12672-29-6	~~PCB-1248~~	U	100000
11097-69-1	~~PCB-1254~~	U	100000
11096-82-5	~~PCB-1260~~	U	100000

MB 3/19/93

See footnotes on Page 4.

9613424.0904

ANALYTICAL REPORT FOR SAMPLE No. EK4375

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZR1 Sponsor WESTINGHOUSE HANFORD CO.

File ID ZR11EK75D Date Extracted 09/17/91 Date of Analysis 10/04/91

DataChem ID S91-0719BC

Cas. No	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
62-75-9	N-nitroso-dimethylamine	U	10000
108-95-2	phenol	U	3300
111-44-4	bis(2-chloroethyl)ether	U	3300
95-57-8	2-chlorophenol	U	3300
541-73-1	1,3-dichlorobenzene	U	3300
106-46-7	1,4-dichlorobenzene	U	3300
100-51-6	benzyl alcohol	U	10000
95-50-1	1,2-dichlorobenzene	U	3300
95-48-7	2-methylphenol	U	3300
39638-329	bis(2-chloroisopropyl)ether	U	3300
106-44-5	4-methylphenol	U	3300
621-64-7	N-nitroso-di-n-propylamine	U	3300
67-72-1	hexachloroethane	U	3300
98-95-3	nitrobenzene	U	3300
78-59-1	isophorone	U	3300
88-75-5	2-nitrophenol	U	3300
105-67-9	2,4-dimethylphenol	U	3300
111-91-1	bis(2-chloroethoxy)methane	U	3300
65-85-0	benzoic acid	UJ	10000
120-83-2	2,4-dichlorophenol	U	3300
120-82-1	1,2,4-trichlorobenzene	U	3300
91-20-3	naphthalene	690.J	3300
106-47-8	4-chloroaniline	U	3300
87-68-3	hexachlorobutadiene	U	3300
59-50-7	4-chloro-3-methylphenol	U	3300
91-57-6	2-methylnaphthalene	U	3300
77-47-4	hexachlorocyclopentadiene	U	3300
88-06-2	2,4,6-trichlorophenol	U	3300
95-95-4	2,4,5-trichlorophenol	UJ	8000
91-58-7	2-chloronaphthalene	U	3300
88-74-4	2-nitroaniline	UJ	8000
131-11-3	dimethyl phthalate	U	3300
606-20-2	2,6-dinitrotoluene	U	3300
208-96-8	acenaphthylene	U	3300
99-09-2	3-nitroaniline	UJ	8000
83-32-9	acenaphthene	U	3300
51-28-5	2,4-dinitrophenol	UJ	8000
100-02-7	4-nitrophenol	UJ	8000
132-64-9	dibenzofuran	U	3300

RB 3/19/93

FBD 5/12/93

See footnotes on page 4.

9613424.0905

ANALYTICAL REPORT FOR SAMPLE No. EK4375

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZR1 Sponsor WESTINGHOUSE HANFORD CO.

Cas. No.	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
121-14-2	2,4-dinitrotoluene	U	3300
84-66-2	diethyl phthalate	11000.	3300
7005-72-3	4-chlorophenyl-phenylether	U	3300
86-73-7	fluorene	UJ - RRF	3300
100-01-6	4-nitroaniline	UJ	8000
534-52-1	2-methyl-4,6-dinitrophenol	UJ	8000
86-30-6	N-nitroso-diphenylamine	U	3300
122-66-7	1,2-diphenylhydrazine	U	10000
101-55-3	4-bromophenyl-phenylether	U	3300
319-84-6	~~alpha-BHC~~	U	10000
319-85-7	~~beta-BHC~~	U	50000
118-74-1	hexachlorobenzene	U	3300
87-86-5	pentachlorophenol	UJ	8000
58-89-9	~~gamma-BHC~~	U	10000
85-01-8	phenanthrene	2100.J	3300
120-12-7	anthracene	400.J	3300
319-86-8	~~delta-BHC~~	U	50000
76-44-8	~~heptachlor~~	U	50000
84-74-2	di-n-butyl phthalate	U	3300
309-00-2	~~aldrin~~	U	50000
1024-57-3	~~heptachlor epoxide~~	U	50000
206-44-0	fluoranthene	2100.J	3300
129-00-0	pyrene	1800.J	3300
959-98-8	~~endosulfan I~~	U	50000
72-55-9	~~4,4'DDE~~	U	50000
60-57-1	~~dieldrin~~	U	50000
7421-93-4	~~endrin aldehyde~~	U	50000
72-20-8	~~endrin~~	U	50000
72-54-8	~~4,4'DDD~~	U	50000
33213-65-9	~~endosulfan II~~	U	50000
85-68-7	butylbenzylphthalate	U	3300
50-29-3	~~4,4'DDT~~	U	50000
1031-07-8	~~endosulfan sulfate~~	U	50000
72-43-5	~~p,p'-methoxychlor~~	U	10000
91-94-1	3,3'-dichlorobenzidine	U	10000
56-55-3	benzo(a)anthracene	830.J	3300
117-81-7	bis(2-ethylhexyl)phthalate	380.J	3300
218-01-9	chrysene	1900.J	3300
117-84-0	di-n-octylphthalate	U	3300

AB 3/19/93

See footnotes on Page 4.

9613424.0906

ANALYTICAL REPORT FOR SAMPLE No. EK4375

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZR1 Sponsor WESTINGHOUSE HANFORD CO.

Cas. No.	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
205-99-2	benzo(b)fluoranthene	640.J	3300
207-08-9	benzo(k)fluoranthene	880.J	3300
50-32-8	benzo(a)pyrene	770.J	3300
193-39-5	indeno(1,2,3-cd)pyrene	U	3300
53-70-3	dibenzo(a,h)anthracene	U	3300
191-24-2	benzo(g,h,i)perylene	U	3300
53494-70-5	~~endrin ketone~~	U	10000
109-06-8	2-picoline	U	10000
62-50-0	ethyl methanesulfonate	U	10000
66-27-3	methyl methanesulfonate	U	10000
62-53-3	aniline	U	10000
98-86-2	acetophenone	U	10000
100-75-4	N-nitroso-piperidine	U	10000
122-09-8	a,a-dimethylphenethylamine	U	10000
87-65-0	2,6-dichlorophenol	U	10000
924-16-3	N-nitroso-di-n-butylamine	U	10000
95-94-3	1,2,4,5-tetrachlorobenzene	U	10000
90-13-1	1-chloronaphthalene	U	10000
608-93-5	pentachlorobenzene	U	10000
134-32-7	1-naphthylamine	U	10000
58-90-2	2,3,4,6-tetrachlorophenol	U	10000
91-59-8	2-naphthylamine	U	10000
62-44-2	phenacetin	U	10000
92-67-1	4-aminobiphenyl	U	10000
23950-58-5	pronamide (propyzamide)	U	10000
82-68-8	pentachloronitrobenzene	U	10000
92-87-5	benzidine	U	10000
60-11-7	p-dimethylaminoazobenzene	U	10000
57-97-6	7,12-dimethbenz(a)anthracene	U	10000
56-49-5	3-methylchloranthrene	U	10000
57-74-9	chlordane	U	100000
8001-35-2	~~toxaphene~~	T	100000
12674-11-2	PCB-1016	P	100000
11104-28-2	PCB-1221	P	100000
11141-16-5	PCB-1232	P	100000
53469-21-9	PCB-1242	P	100000
12672-29-6	PCB-1248	P	100000
11097-69-1	PCB-1254	P	100000
11096-82-5	PCB-1260	P	100000

BB 3/19/93

See footnotes on Page 4.

9613424.0907

ANALYTICAL REPORT FOR SAMPLE No. EK4376

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZR2 Sponsor WESTINGHOUSE HANFORD CO.

File ID ZR12EK76D Date Extracted 09/17/91 Date of Analysis 10/04/91

DataChem ID S91-0719BC

Cas. No	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
62-75-9	N-nitroso-dimethylamine	U	10000
108-95-2	phenol	U	3300
111-44-4	bis(2-chloroethyl)ether	U	3300
95-57-8	2-chlorophenol	U	3300
541-73-1	1,3-dichlorobenzene	U	3300
106-46-7	1,4-dichlorobenzene	U	3300
100-51-6	benzyl alcohol	U	10000
95-50-1	1,2-dichlorobenzene	U	3300
95-48-7	2-methylphenol	U	3300
39638-329	bis(2-chloroisopropyl)ether	U	3300
106-44-5	4-methylphenol	U	3300
621-64-7	N-nitroso-di-n-propylamine	U	3300
67-72-1	hexachloroethane	U	3300
98-95-3	nitrobenzene	U	3300
78-59-1	isophorone	U	3300
88-75-5	2-nitrophenol	U	3300
105-67-9	2,4-dimethylphenol	U	3300
111-91-1	bis(2-chloroethoxy)methane	U	3300
65-85-0	benzoic acid	U J	10000
120-83-2	2,4-dichlorophenol	U	3300
120-82-1	1,2,4-trichlorobenzene	U	3300
91-20-3	naphthalene	U	3300
106-47-8	4-chloroaniline	U	3300
87-68-3	hexachlorobutadiene	U	3300
59-50-7	4-chloro-3-methylphenol	U	3300
91-57-6	2-methylnaphthalene	U	3300
77-47-4	hexachlorocyclopentadiene	U	3300
88-06-2	2,4,6-trichlorophenol	U	3300
95-95-4	2,4,5-trichlorophenol	U J	8000
91-58-7	2-chloronaphthalene	U	3300
88-74-4	2-nitroaniline	U J	8000
131-11-3	dimethyl phthalate	U	3300
606-20-2	2,6-dinitrotoluene	U	3300
208-96-8	acenaphthylene	U	3300
99-09-2	3-nitroaniline	U J	8000
83-32-9	acenaphthene	U	3300
51-28-5	2,4-dinitrophenol	U J	8000
100-02-7	4-nitrophenol	U J	8000
132-64-9	dibenzofuran	U	3300

BB 3/19/93

See footnotes on page 4.

PBD 5/12/93

9613424.0908

ANALYTICAL REPORT FOR SAMPLE No. EK4376

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZR2 Sponsor WESTINGHOUSE HANFORD CO.

Cas. No.	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
121-14-2	2,4-dinitrotoluene	U	3300
84-66-2	diethyl phthalate	U	3300
7005-72-3	4-chlorophenyl-phenylether	U	3300
86-73-7	fluorene	UJ - REF	3300
100-01-6	4-nitroaniline	UJ	8000
534-52-1	2-methyl-4,6-dinitrophenol	UJ	8000
86-30-6	N-nitroso-diphenylamine	U	3300
122-66-7	1,2-diphenylhydrazine	U	10000
101-55-3	4-bromophenyl-phenylether	U	3300
319-84-6	~~alpha-BHC~~	U	10000
319-85-7	~~beta-BHC~~	U	50000
118-74-1	hexachlorobenzene	U	3300
87-86-5	pentachlorophenol	UJ	8000
58-89-9	~~gamma-BHC~~	U	10000
85-01-8	phenanthrene	1700.J	3300
120-12-7	anthracene	U	3300
319-86-8	~~delta-BHC~~	U	50000
76-44-8	~~heptachlor~~	U	50000
84-74-2	di-n-butyl phthalate	U	3300
309-00-2	~~aldrin~~	U	50000
1024-57-3	~~heptachlor epoxide~~	U	50000
206-44-0	fluoranthene	1300.J	3300
129-00-0	~~pyrene~~	1000.J	3300
959-98-8	~~endosulfan I~~	U	50000
72-55-9	~~4,4'DDE~~	U	50000
60-57-1	~~dieldrin~~	U	50000
7421-93-4	~~endrin aldehyde~~	U	50000
72-20-8	~~endrin~~	U	50000
72-54-8	~~4,4'DDD~~	U	50000
33213-65-9	~~endosulfan II~~	U	50000
85-68-7	butylbenzylphthalate	U	3300
50-29-3	~~4,4'DDT~~	U	50000
1031-07-8	~~endosulfan sulfate~~	U	50000
72-43-5	~~p,p'-methoxychlor~~	U	10000
91-94-1	3,3'-dichlorobenzidine	U	10000
56-55-3	benzo(a)anthracene	U	3300
117-81-7	bis(2-ethylhexyl)phthalate	480.J	3300
218-01-9	chrysene	720.J	3300
117-84-0	di-n-octylphthalate	U	3300

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See footnotes on Page 4.

9613424.0909

ANALYTICAL REPORT FOR SAMPLE No. EK4376

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZR2 Sponsor WESTINGHOUSE HANFORD CO.

Cas. No.	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
205-99-2	benzo(b)fluoranthene	310.J	3300
207-08-9	benzo(k)fluoranthene	510.J	3300
50-32-8	benzo(a)pyrene	U	3300
193-39-5	indeno(1,2,3-cd)pyrene	U	3300
53-70-3	dibenzo(a,h)anthracene	U	3300
191-24-2	benzo(g,h,i)perylene	U	3300
53494-70-5	~~endrin ketone~~	U	10000
109-06-8	2-picoline	U	10000
62-50-0	ethyl methanesulfonate	U	10000
66-27-3	methyl methanesulfonate	U	10000
62-53-3	aniline	U	10000
98-86-2	acetophenone	U	10000
100-75-4	N-nitroso-piperidine	U	10000
122-09-8	a,a-dimethylphenethylamine	U	10000
87-65-0	2,6-dichlorophenol	U	10000
924-16-3	N-nitroso-di-n-butylamine	U	10000
95-94-3	1,2,4,5-tetrachlorobenzene	U	10000
90-13-1	1-chloronaphthalene	U	10000
608-93-5	pentachlorobenzene	U	10000
134-32-7	1-naphthylamine	U	10000
58-90-2	2,3,4,6-tetrachlorophenol	U	10000
91-59-8	2-naphthylamine	U	10000
62-44-2	phenacetin	U	10000
92-67-1	4-aminobiphenyl	U	10000
23950-58-5	pronamide (propyzamide)	U	10000
82-68-8	pentachloronitrobenzene	U	10000
92-87-5	benzidine	U	10000
60-11-7	p-dimethylaminoazobenzene	U	10000
57-97-6	7,12-dimethbenz(a)anthracene	U	10000
56-49-5	3-methylchloranthrene	U	10000
57-74-9	~~chlordane~~	U	100000
8001-35-2	~~toxaphene~~	U	100000
12674-11-2	~~PCB-1016~~	P	100000
11104-28-2	~~PCB-1221~~	P	100000
11141-16-5	~~PCB-1232~~	P	100000
53469-21-9	~~PCB-1242~~	P	100000
12672-29-6	~~PCB-1248~~	P	100000
11097-69-1	~~PCB-1254~~	P	100000
11096-82-5	~~PCB-1260~~	P	100000

MB 8/19/93

See footnotes on Page 4.

9613424.0910

ANALYTICAL REPORT FOR SAMPLE No. EK4373

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID B00ZQ9 Sponsor WESTINGHOUSE HANFORD CO.

File ID ZM15EK4373D Date Extracted 09/17/91 Date of Analysis 10/01/91

DataChem ID S91-0719BC

Cas. No	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
62-75-9	N-nitroso-dimethylamine	U	10000
108-95-2	phenol	U	3300
111-44-4	bis(2-chloroethyl)ether	U	3300
95-57-8	2-chlorophenol	U	3300
541-73-1	1,3-dichlorobenzene	U	3300
106-46-7	1,4-dichlorobenzene	U	3300
100-51-6	benzyl alcohol	U	10000
95-50-1	1,2-dichlorobenzene	U	3300
95-48-7	2-methylphenol	U	3300
39638-329	bis(2-chloroisopropyl)ether	U	3300
106-44-5	4-methylphenol	U	3300
621-64-7	N-nitroso-di-n-propylamine	U	3300
67-72-1	hexachloroethane	U	3300
98-95-3	nitrobenzene	U	3300
78-59-1	isophorone	U	3300
88-75-5	2-nitrophenol	U	3300
105-67-9	2,4-dimethylphenol	U	3300
111-91-1	bis(2-chloroethoxy)methane	U	3300
65-85-0	benzoic acid	UJ	10000
120-83-2	2,4-dichlorophenol	U	3300
120-82-1	1,2,4-trichlorobenzene	U	3300
91-20-3	naphthalene	6700.	3300
106-47-8	4-chloroaniline	U	3300
87-68-3	hexachlorobutadiene	U	3300
59-50-7	4-chloro-3-methylphenol	U	3300
91-57-6	2-methylnaphthalene	1800.J	3300
77-47-4	hexachlorocyclopentadiene	U	3300
88-06-2	2,4,6-trichlorophenol	U	3300
95-95-4	2,4,5-trichlorophenol	UJ	8000
91-58-7	2-chloronaphthalene	U	3300
88-74-4	2-nitroaniline	UJ	8000
131-11-3	dimethyl phthalate	U	3300
606-20-2	2,6-dinitrotoluene	U	3300
208-96-8	acenaphthylene	280.J	3300
99-09-2	3-nitroaniline	UJ	8000
83-32-9	acenaphthene	5900.	3300
51-28-5	2,4-dinitrophenol	UJ	8000
100-02-7	4-nitrophenol	UJ	8000
132-64-9	dibenzofuran	4100.	3300

NB 3/17/93

See footnotes on page 4.

5/12/93

9613424.0911

ANALYTICAL REPORT FOR SAMPLE No. EK4373

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZ09 Sponsor WESTINGHOUSE HANFORD CO.

Cas. No.	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
121-14-2	2,4-dinitrotoluene	U	3300
84-66-2	diethyl phthalate	U	3300
7005-72-3	4-chlorophenyl-phenylether	UJ -RSD	3300
86-73-7	fluorene	6400.	3300
100-01-6	4-nitroaniline	UJ	8000
534-52-1	2-methyl-4,6-dinitrophenol	UJ	8000
86-30-6	N-nitroso-diphenylamine	U	3300
122-66-7	1,2-diphenylhydrazine	U	10000
101-55-3	4-bromophenyl-phenylether	U	3300
319-84-6	~~alpha-BHC~~	U	10000
319-85-7	~~beta-BHC~~	U	50000
118-74-1	hexachlorobenzene	UJ -RSD	3300
87-86-5	pentachlorophenol	UJ	8000
58-89-9	~~gamma-BHC~~	U	10000
85-01-8	phenanthrene	51000.	3300
120-12-7	anthracene	8700.	3300
319-86-8	~~delta-BHC~~	U	50000
76-44-8	~~heptachlor~~	U	50000
84-74-2	di-n-butyl phthalate	U	3300
309-00-2	~~aldrin~~	U	50000
1024-57-3	~~heptachlor epoxide~~	U	50000
206-44-0	fluoranthene	55000.	3300
129-00-0	pyrene	47000.	3300
959-98-8	~~endosulfan I~~	U	50000
72-55-9	~~4,4'-DDE~~	U	50000
60-57-1	~~dieldrin~~	U	50000
7421-93-4	~~endrin aldehyde~~	U	50000
72-20-8	~~endrin~~	U	50000
72-54-8	~~4,4'-DDD~~	U	50000
33213-65-9	~~endosulfan II~~	U	50000
85-68-7	butylbenzylphthalate	U	3300
50-29-3	~~4,4'-DDT~~	U	50000
1031-07-8	~~endosulfan sulfate~~	U	50000
72-43-5	~~p,p'-methoxychlor~~	U	10000
91-94-1	3,3'-dichlorobenzidine	U	10000
56-55-3	benzo(a)anthracene	23000.	3300
117-81-7	bis(2-ethylhexyl)phthalate	U	3300
218-01-9	chrysene	27000.	3300
117-84-0	di-n-octylphthalate	U	3300

RB 3/14/93

See footnotes on Page 4.

9613424.0912

ANALYTICAL REPORT FOR SAMPLE No. EK4373

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZO9 Sponsor WESTINGHOUSE HANFORD CO.

Cas. No.	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
205-99-2	benzo(b)fluoranthene	19000.	3300
207-08-9	benzo(k)fluoranthene	18000.	3300
50-32-8	benzo(a)pyrene	19000.	3300
193-39-5	indeno(1,2,3-cd)pyrene	14000.	3300
53-70-3	dibenzo(a,h)anthracene	4800.	3300
191-24-2	benzo(g,h,i)perylene	17000.	3300
53494-70-5	~~endrin ketone~~	U	10000
109-06-8	2-picoline	U	10000
62-50-0	ethyl methanesulfonate	U	10000
66-27-3	methyl methanesulfonate	U	10000
62-53-3	aniline	U	10000
98-86-2	acetophenone	U	10000
100-75-4	N-nitroso-piperidine	U	10000
122-09-8	a,a-dimethylphenethylamine	U	10000
87-65-0	2,6-dichlorophenol	U	10000
924-16-3	N-nitroso-di-n-butylamine	U	10000
95-94-3	1,2,4,5-tetrachlorobenzene	U	10000
90-13-1	1-chloronaphthalene	U	10000
608-93-5	pentachlorobenzene	U	10000
134-32-7	1-naphthylamine	U	10000
58-90-2	2,3,4,6-tetrachlorophenol	U	10000
91-59-8	2-naphthylamine	U	10000
62-44-2	phenacetin	U	10000
92-67-1	4-aminobiphenyl	U	10000
23950-58-5	pronamide (propyzamide)	U	10000
82-68-8	pentachloronitrobenzene	U	10000
92-87-5	benzidine	U	10000
60-11-7	p-dimethylaminoazobenzene	U	10000
57-97-6	7,12-dimethbenz(a)anthracene	U	10000
56-49-5	3-methylchloranthrene	U	10000
57-74-9	~~chlordane~~	U	100000
8001-35-2	~~toxaphene~~	T	100000
12674-11-2	PCB-1016	U	100000
11104-28-2	PCB-1221	U	100000
11141-16-5	PCB-1232	U	100000
53469-21-9	PCB-1242	U	100000
12672-29-6	PCB-1248	U	100000
11097-69-1	PCB-1254	U	100000
11096-82-5	PCB-1260	U	100000

MB 3/19/93

See footnotes on Page 4.

9613424.0913

ANALYTICAL REPORT FOR SAMPLE No. EK4369

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZQ5 Sponsor WESTINGHOUSE HANFORD CO.

File ID ZM12EK4369D Date Extracted 09/17/91 Date of Analysis 10/01/91

DataChem ID S91-0719BC

Cas. No	COMPOUND	RESULTS (ug/Kg)		DETECTION LIMITS (ug/Kg)
62-75-9	N-nitroso-dimethylamine	U		10000
108-95-2	phenol	U		3300
111-44-4	bis(2-chloroethyl)ether	U		3300
95-57-8	2-chlorophenol	U		3300
541-73-1	1,3-dichlorobenzene	U		3300
106-46-7	1,4-dichlorobenzene	U		3300
100-51-6	benzyl alcohol	U		10000
95-50-1	1,2-dichlorobenzene	U		3300
95-48-7	2-methylphenol	U		3300
39638-329	bis(2-chloroisopropyl)ether	U	RB	3300
106-44-5	4-methylphenol	U		3300
621-64-7	N-nitroso-di-n-propylamine	U		3300
67-72-1	hexachloroethane	U		3300
98-95-3	nitrobenzene	U		3300
78-59-1	isophorone	U		3300
88-75-5	2-nitrophenol	U		3300
105-67-9	2,4-dimethylphenol	U		3300
111-91-1	bis(2-chloroethoxy)methane	U		3300
65-85-0	benzoic acid	UJ	~~9.5~~ RRF 0.05	10000
120-83-2	2,4-dichlorophenol	U		3300
120-82-1	1,2,4-trichlorobenzene	U		3300
91-20-3	naphthalene	U		3300
106-47-8	4-chloroaniline	U		3300
87-68-3	hexachlorobutadiene	U		3300
59-50-7	4-chloro-3-methylphenol	U		3300
91-57-6	2-methylnaphthalene	U		3300
77-47-4	hexachlorocyclopentadiene	U		3300
88-06-2	2,4,6-trichlorophenol	U		3300
95-95-4	2,4,5-trichlorophenol	UJ	RRF 0.05	8000
91-58-7	2-chloronaphthalene	U		3300
88-74-4	2-nitroaniline	UJ	RRF 0.05	8000
131-11-3	dimethyl phthalate	U		3300
606-20-2	2,6-dinitrotoluene	U		3300
208-96-8	acenaphthylene	U		3300
99-09-2	3-nitroaniline	UJ	RRF	8000
83-32-9	acenaphthene	U		3300
51-28-5	2,4-dinitrophenol	UJ	RRF	8000
100-02-7	4-nitrophenol	UJ	RRF	8000
132-64-9	dibenzofuran	U		3300

See footnotes on page 4.

PBD 5/12/93 ✓

9613424.0914

ANALYTICAL REPORT FOR SAMPLE No. EK4369

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZ05 Sponsor WESTINGHOUSE HANFORD CO.

Cas. No.	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
121-14-2	2,4-dinitrotoluene	U	3300
84-66-2	diethyl phthalate	U	3300
7005-72-3	4-chlorophenyl-phenylether	UJ - RSD	3300
86-73-7	fluorene	U	3300
100-01-6	4-nitroaniline	UJ NRF	8000
534-52-1	2-methyl-4,6-dinitrophenol	UJ NRF	8000
86-30-6	N-nitroso-diphenylamine	U	3300
122-66-7	1,2-diphenylhydrazine	U	10000
101-55-3	4-bromophenyl-phenylether	U	3300
319-84-6	~~alpha-BHC~~	U	10000
319-85-7	~~beta-BHC~~	U	50000
118-74-1	hexachlorobenzene	U J -RSD	3300
87-86-5	pentachlorophenol	UJ NRF	8000
58-89-9	~~gamma-BHC~~	U	10000
85-01-8	phenanthrene	U	3300
120-12-7	anthracene	U	3300
319-86-8	~~delta-BHC~~	U	50000
76-44-8	~~heptachlor~~	U	50000
84-74-2	di-n-butyl phthalate	U	3300
309-00-2	~~aldrin~~	U	50000
1024-57-3	~~heptachlor epoxide~~	U	50000
206-44-0	fluoranthene	610.J	3300
129-00-0	pyrene	460.J	3300
959-98-8	~~endosulfan I~~	U	50000
72-55-9	~~4,4'DDE~~	U	50000
60-57-1	~~dieldrin~~	U	50000
7421-93-4	~~endrin aldehyde~~	U	50000
72-20-8	endrin	U	50000
72-54-8	~~4,4'DDD~~	U	50000
33213-65-9	~~endosulfan II~~	U	50000
85-68-7	butylbenzylphthalate	U	3300
50-29-3	~~4,4'DDT~~	U	50000
1031-07-8	~~endosulfan sulfate~~	U	50000
72-43-5	p,p'-methoxychlor	U	10000
91-94-1	3,3'-dichlorobenzidine	U	10000
56-55-3	benzo(a)anthracene	360.J	3300
117-81-7	bis(2-ethylhexyl)phthalate	U	3300
218-01-9	chrysene	650.J	3300
117-84-0	di-n-octylphthalate	U	3300

RB 3/19/93

See footnotes on Page 4.

9613424.0915

ANALYTICAL REPORT FOR SAMPLE No. EK4369

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZO5 Sponsor WESTINGHOUSE HANFORD CO.

Cas. No.	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
205-99-2	benzo(b)fluoranthene	U	3300
207-08-9	benzo(k)fluoranthene	U	3300
50-32-8	benzo(a)pyrene	U	3300
193-39-5	indeno(1,2,3-cd)pyrene	U	3300
53-70-3	dibenzo(a,h)anthracene	U	3300
191-24-2	benzo(g,h,i)perylene	U	3300
53494-70-5	~~endrin ketone~~	U	10000
109-06-8	2-picoline	U	10000
62-50-0	ethyl methanesulfonate	U	10000
66-27-3	methyl methanesulfonate	U	10000
62-53-3	aniline	U	10000
98-86-2	acetophenone	U	10000
100-75-4	N-nitroso-piperidine	U	10000
122-09-8	a,a-dimethylphenethylamine	U	10000
87-65-0	2,6-dichlorophenol	U	10000
924-16-3	N-nitroso-di-n-butylamine	U	10000
95-94-3	1,2,4,5-tetrachlorobenzene	U	10000
90-13-1	1-chloronaphthalene	U	10000
608-93-5	pentachlorobenzene	U	10000
134-32-7	1-naphthylamine	U	10000
58-90-2	2,3,4,6-tetrachlorophenol	U	10000
91-59-8	2-naphthylamine	U	10000
62-44-2	phenacetin	U	10000
92-67-1	4-aminobiphenyl	U	10000
23950-58-5	pronamide (propyzamide)	U	10000
82-68-8	pentachloronitrobenzene	U	10000
92-87-5	benzidine	U	10000
60-11-7	p-dimethylaminoazobenzene	U	10000
57-97-6	7,12-dimethbenz(a)anthracene	U	10000
56-49-5	3-methylchloranthrene	U	10000
57-74-9	~~chlordane~~	U	100000
8001-35-2	~~toxaphene~~	U	100000
12674-11-2	PCB-1016	P	100000
11104-28-2	PCB-1221	P	100000
11141-16-5	PCB-1232	P	100000
53469-21-9	PCB-1242	P	100000
12672-29-6	PCB-1248	P	100000
11097-69-1	PCB-1254	P	100000
11096-82-5	PCB-1260	P	100000

KB 8/19/93

See footnotes on Page 4.

9613424.0916

ANALYTICAL REPORT FOR SAMPLE No. EK4372

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID B00Z08 Sponsor WESTINGHOUSE HANFORD CO.

File ID ZR6EK4372D Date Extracted 09/17/91 Date of Analysis 10/03/91

DataChem ID S91-0719BC

Cas. No	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
62-75-9	N-nitroso-dimethylamine	U	20000
108-95-2	phenol	U	6600
111-44-4	bis(2-chloroethyl)ether	U	6600
95-57-8	2-chlorophenol	U	6600
541-73-1	1,3-dichlorobenzene	U	6600
106-46-7	1,4-dichlorobenzene	U	6600
100-51-6	benzyl alcohol	U	20000
95-50-1	1,2-dichlorobenzene	U	6600
95-48-7	2-methylphenol	U	6600
39638-329	bis(2-chloroisopropyl)ether	U	6600
106-44-5	4-methylphenol	U	6600
621-64-7	N-nitroso-di-n-propylamine	U	6600
67-72-1	hexachloroethane	U	6600
98-95-3	nitrobenzene	U	6600
78-59-1	isophorone	U	6600
88-75-5	2-nitrophenol	U	6600
105-67-9	2,4-dimethylphenol	U	6600
111-91-1	bis(2-chloroethoxy)methane	U	6600
65-85-0	benzoic acid	UJ	20000
120-83-2	2,4-dichlorophenol	U	6600
120-82-1	1,2,4-trichlorobenzene	U	6600
91-20-3	naphthalene	1200.J	6600
106-47-8	4-chloroaniline	U	6600
87-68-3	hexachlorobutadiene	U	6600
59-50-7	4-chloro-3-methylphenol	U	6600
91-57-6	2-methylnaphthalene	U	6600
77-47-4	hexachlorocyclopentadiene	U	6600
88-06-2	2,4,6-trichlorophenol	U	6600
95-95-4	2,4,5-trichlorophenol	UJ	1600
91-58-7	2-chloronaphthalene	U	6600
88-74-4	2-nitroaniline	UJ	1600
131-11-3	dimethyl phthalate	U	6600
606-20-2	2,6-dinitrotoluene	U	6600
208-96-8	acenaphthylene	U	6600
99-09-2	3-nitroaniline	UJ	1600
83-32-9	acenaphthene	990.J	6600
51-28-5	2,4-dinitrophenol	UJ	1600
100-02-7	4-nitrophenol	UJ	1600
132-64-9	dibenzofuran	U	6600

RB 3/19/93

PBD 5/12/93

See footnotes on page 4.

9613424.0917

ANALYTICAL REPORT FOR SAMPLE No. EK4372

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID B00ZQ8 Sponsor WESTINGHOUSE HANFORD CO.

Cas. No.	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
121-14-2	2,4-dinitrotoluene	U	6600
84-66-2	diethyl phthalate	U	6600
7005-72-3	4-chlorophenyl-phenylether	U	6600
86-73-7	fluorene	1200.J	6600
100-01-6	4-nitroaniline	U J	16000
534-52-1	2-methyl-4,6-dinitrophenol	U J	16000
86-30-6	N-nitroso-diphenylamine	U	6600
122-66-7	1,2-diphenylhydrazine	U	20000
101-55-3	4-bromophenyl-phenylether	U	6600
319-84-6	~~alpha.-BHC~~	~~U~~	20000
319-85-7	~~beta-BHC~~	~~U~~	100000
118-74-1	hexachlorobenzene	U	6600
87-86-5	pentachlorophenol	U J	1600
58-89-9	~~gamma.-BHC~~	U	100000
85-01-8	phenanthrene	7800.	6600
120-12-7	anthracene	740.J	6600
319-86-8	~~delta-BHC~~	~~U~~	100000
76-44-8	~~heptachlor~~	~~U~~	100000
84-74-2	di-n-butyl phthalate	U	6600
309-00-2	~~aldrin~~	~~U~~	100000
1024-57-3	~~heptachlor epoxide~~	~~U~~	100000
206-44-0	fluoranthene	8700.	6600
129-00-0	pyrene	7000.	6600
959-98-8	~~endosulfan I~~	~~U~~	100000
72-55-9	~~4,4'DDE~~	~~U~~	100000
60-57-1	~~dieldrin~~	~~U~~	100000
7421-93-4	~~endrin aldehyde~~	~~U~~	100000
72-20-8	~~endrin~~	~~U~~	100000
72-54-8	~~4,4'DDD~~	~~U~~	100000
33213-65-9	~~endosulfan II~~	~~U~~	100000
85-68-7	butylbenzylphthalate	U	6600
50-29-3	~~4,4'DDT~~	~~U~~	100000
1031-07-8	~~endosulfan sulfate~~	~~U~~	100000
72-43-5	~~p,p' methoxychlor~~	~~U~~	20000
91-94-1	3,3'-dichlorobenzidine	U	20000
56-55-3	benzo(a)anthracene	4100.J	6600
117-81-7	bis(2-ethylhexyl)phthalate	U	6600
218-01-9	chrysene	3900.J	6600
117-84-0	di-n-octylphthalate	U	6600

RB 8/29/93

See footnotes on Page 4.

9613424.0918

ANALYTICAL REPORT FOR SAMPLE No. EK4372

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZO8 Sponsor WESTINGHOUSE HANFORD CO.

Cas. No.	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
205-99-2	benzo(b)fluoranthene	3500.J	6600
207-08-9	benzo(k)fluoranthene	3500.J	6600
50-32-8	benzo(a)pyrene	2400.J	6600
193-39-5	indeno(1,2,3-cd)pyrene	U	6600
53-70-3	dibenzo(a,h)anthracene	U	6600
191-24-2	benzo(g,h,i)perylene	U	6600
53494-70-5	~~endrin ketone~~	~~U~~	20000
109-06-8	2-picoline	U	20000
62-50-0	ethyl methanesulfonate	U	20000
66-27-3	methyl methanesulfonate	U	20000
62-53-3	aniline	U	20000
98-86-2	acetophenone	U	20000
100-75-4	N-nitroso-piperidine	U	RB 20000
122-09-8	a,a-dimethylphenethylamine	U	20000
87-65-0	2,6-dichlorophenol	U	3/19/95 20000
924-16-3	N-nitroso-di-n-butylamine	U	20000
95-94-3	1,2,4,5-tetrachlorobenzene	U	20000
90-13-1	1-chloronaphthalene	U	20000
608-93-5	pentachlorobenzene	U	20000
134-32-7	1-naphthylamine	U	20000
58-90-2	2,3,4,6-tetrachlorophenol	U	20000
91-59-8	2-naphthylamine	U	20000
62-44-2	phenacetin	U	20000
92-67-1	4-aminobiphenyl	U	20000
23950-58-5	pronamide (propyzamide)	U	20000
82-68-8	pentachloronitrobenzene	U	20000
92-87-5	benzidine	U	20000
60-11-7	p-dimethylaminoazobenzene	U	20000
57-97-6	7,12-dimethbenz(a)anthracene	U	20000
56-49-5	3-methylchloranthrene	U	20000
57-74-9	~~chlordane~~	~~U~~	200000
8001-35-2	~~toxaphene~~	~~U~~	200000
12674-11-2	PCB-1016	P	200000
11104-28-2	PCB-1221	P	200000
11141-16-5	PCB-1232	P	200000
53469-21-9	PCB-1242	P	200000
12672-29-6	PCB-1248	P	200000
11097-69-1	PCB-1254	P	200000
11096-82-5	PCB-1260	P	200000

See footnotes on Page 4.

9613424.0919

ANALYTICAL REPORT FOR SAMPLE No. EK4371

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZO7 Sponsor WESTINGHOUSE HANFORD CO.

File ID ZM13EK4371D Date Extracted 09/17/91 Date of Analysis 10/01/91

DataChem ID S91-0719BC

Cas. No	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
62-75-9	N-nitroso-dimethylamine	U	10000
108-95-2	phenol	U	3300
111-44-4	bis(2-chloroethyl)ether	U	3300
95-57-8	2-chlorophenol	U	3300
541-73-1	1,3-dichlorobenzene	U	3300
106-46-7	1,4-dichlorobenzene	U	3300
100-51-6	benzyl alcohol	U	10000
95-50-1	1,2-dichlorobenzene	U	3300
95-48-7	2-methylphenol	U	3300
39638-329	bis(2-chloroisopropyl)ether	U	3300
106-44-5	4-methylphenol	U	3300
621-64-7	N-nitroso-di-n-propylamine	U	3300
67-72-1	hexachloroethane	U	3300
98-95-3	nitrobenzene	U	3300
78-59-1	isophorone	U	3300
88-75-5	2-nitrophenol	U	3300
105-67-9	2,4-dimethylphenol	U	3300
111-91-1	bis(2-chloroethoxy)methane	U	3300
65-85-0	benzoic acid	UJ	10000
120-83-2	2,4-dichlorophenol	U	3300
120-82-1	1,2,4-trichlorobenzene	U	3300
91-20-3	naphthalene	1400.J	3300
106-47-8	4-chloroaniline	U	3300
87-68-3	hexachlorobutadiene	U	3300
59-50-7	4-chloro-3-methylphenol	U	3300
91-57-6	2-methylnaphthalene	U	3300
77-47-4	hexachlorocyclopentadiene	U	3300
88-06-2	2,4,6-trichlorophenol	U	3300
95-95-4	2,4,5-trichlorophenol	UJ	8000
91-58-7	2-chloronaphthalene	U	3300
88-74-4	2-nitroaniline	UJ	8000
131-11-3	dimethyl phthalate	U	3300
606-20-2	2,6-dinitrotoluene	U	3300
208-96-8	acenaphthylene	U	3300
99-09-2	3-nitroaniline	UJ	8000
83-32-9	acenaphthene	1600.J	3300
51-28-5	2,4-dinitrophenol	UJ	8000
100-02-7	4-nitrophenol	UJ	8000
132-64-9	dibenzofuran	970.J	3300

RB 8/19/93

See footnotes on page 4.

PBD 5/12/93

9613424.0920

ANALYTICAL REPORT FOR SAMPLE No. EK4371

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID BOOZO7 Sponsor WESTINGHOUSE HANFORD CO.

Cas. No.	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
121-14-2	2,4-dinitrotoluene	U	3300
84-66-2	diethyl phthalate	U	3300
7005-72-3	4-chlorophenyl-phenylether	UJ -RSD	3300
86-73-7	fluorene	1700.J	3300
100-01-6	4-nitroaniline	UJ	8000
534-52-1	2-methyl-4,6-dinitrophenol	UJ	8000
86-30-6	N-nitroso-diphenylamine	U	3300
122-66-7	1,2-diphenylhydrazine	U	10000 RB
101-55-3	4-bromophenyl-phenylether	U	3300 8/19/93
319-84-6	~~.alpha.-BHC~~	U	10000
319-85-7	~~beta-BHC~~	U	50000
118-74-1	hexachlorobenzene	UJ - RSD	3300
87-86-5	pentachlorophenol	UJ	8000
58-89-9	~~.gamma.-BHC~~	U	10000
85-01-8	phenanthrene	18000.	3300
120-12-7	anthracene	2500.J	3300
319-86-8	~~delta-BHC~~	U	50000
76-44-8	~~heptachlor~~	U	50000
84-74-2	di-n-butyl phthalate	U	3300
309-00-2	~~aldrin~~	U	50000
1024-57-3	~~heptachlor epoxide~~	U	50000
206-44-0	fluoranthene	24000.	3300
129-00-0	pyrene	18000.	3300
959-98-8	~~endosulfan I~~	U	50000
72-55-9	~~4,4'DDE~~	U	50000
60-57-1	~~dieldrin~~	U	50000
7421-93-4	~~endrin aldehyde~~	U	50000
72-20-8	~~endrin~~	U	50000
72-54-8	~~4,4'DDD~~	U	50000
33213-65-9	~~endosulfan II~~	U	50000
85-68-7	butylbenzylphthalate	U	3300
50-29-3	~~4,4'DDT~~	U	50000
1031-07-8	~~endosulfan sulfate~~	U	50000
72-43-5	~~p,p' methoxychlor~~	U	10000
91-94-1	3,3'-dichlorobenzidine	U	10000
56-55-3	benzo(a)anthracene	7800.	3300
117-81-7	bis(2-ethylhexyl)phthalate	U	3300
218-01-9	chrysene	11000.	3300
117-84-0	di-n-octylphthalate	U	3300

See footnotes on Page 4.

9613424.0921

ANALYTICAL REPORT FOR SAMPLE No. EK4371

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID B00Z07 Sponsor WESTINGHOUSE HANFORD CO.

Cas. No.	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
205-99-2	benzo(b)fluoranthene	5800.	3300
207-08-9	benzo(k)fluoranthene	7900.	3300
50-32-8	benzo(a)pyrene	6300.	3300
193-39-5	indeno(1,2,3-cd)pyrene	5300.	3300
53-70-3	dibenzo(a,h)anthracene	U	3300
191-24-2	benzo(g,h,i)perylene	6100.	3300
53494-70-5	~~endrin ketone~~	U	10000
109-06-8	2-picoline	U	10000
62-50-0	ethyl methanesulfonate	U	10000
66-27-3	methyl methanesulfonate	U	10000
62-53-3	aniline	U	10000
98-86-2	acetophenone	U	10000
100-75-4	N-nitroso-piperidine	U	10000
122-09-8	a,a-dimethylphenethylamine	U	10000
87-65-0	2,6-dichlorophenol	U	10000
924-16-3	N-nitroso-di-n-butylamine	U	10000
95-94-3	1,2,4,5-tetrachlorobenzene	U	10000
90-13-1	1-chloronaphthalene	U	10000
608-93-5	pentachlorobenzene	U	10000
134-32-7	1-naphthylamine	U	10000
58-90-2	2,3,4,6-tetrachlorophenol	U	10000
91-59-8	2-naphthylamine	U	10000
62-44-2	phenacetin	U	10000
92-67-1	4-aminobiphenyl	U	10000
23950-58-5	pronamide (propyzamide)	U	10000
82-68-8	pentachloronitrobenzene	U	10000
92-87-5	benzidine	U	10000
60-11-7	p-dimethylaminoazobenzene	U	10000
57-97-6	7,12-dimethbenz(a)anthracene	U	10000
56-49-5	3-methylchloranthrene	U	10000
57-74-9	~~chlordane~~	U	100000
8001-35-2	~~toxaphene~~	T	100000
12674-11-2	PCB-1016	U	100000
11104-28-2	PCB-1221	U	100000
11141-16-5	PCB-1232	U	100000
53469-21-9	PCB-1242	U	100000
12672-29-6	PCB-1248	U	100000
11097-69-1	PCB-1254	U	100000
11096-82-5	PCB-1260	U	100000

MB 3/14/0

See footnotes on Page 4.

KLT 10/4/91
KLS 10/14/91

Sequence: DISK:[TANG]S91-0719
Date: 4-OCT-1991 13:47:36.60

Spl	Sample Name	Inj	Method File	Calib RT	Calib CF	Data File
1	PCB-1016 & 1260 10.0 UG/M	1	PCBCH43			CH431001001
2	DBC	1	PCBCH43			CH431001002
3	HEXANE	1	PCBCH43			CH431001003
4	HEXANE	1	PCBCH43			CH431001004
5	DBC & TCMX .05	1	PCBCH43			CH431001005
6	DBC & TCMX .1	1	PCBCH43			CH431001006
7	DBC & TCMX .2	1	PCBCH43			CH431001007
8	DBC & TCMX .4	1	PCBCH43			CH431001008
9	PCB.02	1	PCBCH43			CH431001009
10	PCB.2	1	PCBCH43			CH431001010
11	PCB1.0	1	PCBCH43			CH431001011
12	PCB3.0	1	PCBCH43			CH431001012
13	HEXANE	1	PCBCH43			CH431001013
14	BLANK I	1	PCBCH43			CH431001014
15	BLANK II	1	PCBCH43			CH431001015
16	METHOD CHECK	1	PCBCH43			CH431001016
17	EK4368	1	PCBCH43			CH431001017
18	EK4369 -30m, .25mm silica DB-17	1	PCBCH43			CH431001018
19	EK4370 -30, 25, DB-17	1	PCBCH43			CH431001019
20	EK4371	1	PCBCH43			CH431001020
21	EK4372X10	1	PCBCH43			CH431001021
22	EK4372	1	PCBCH43			CH431001022
23	HEXANE	1	PCBCH43			CH431001023
24	EK4373	1	PCBCH43			CH431001024
25	EK4374	1	PCBCH43			CH431001025
26	EK4375	1	PCBCH43			CH431001026
27	EK4376	1	PCBCH43			CH431001027
28	EK4377	1	PCBCH43			CH431001028
29	EK4378	1	PCBCH43			CH431001029
30	EK4379	1	PCBCH43			CH431001030
31	EK4380	1	PCBCH43			CH431001031
32	EK4381	1	PCBCH43			CH431001032
33	EK4382	1	PCBCH43			CH431001033
34	EK4383X10	1	PCBCH43			CH431001034
35	EK4383	1	PCBCH43			CH431001035
36	HEXANE	1	PCBCH43			CH431001036
37	EK4384	1	PCBCH43			CH431001037
38	EK4385	1	PCBCH43			CH431001038
39	EK4386	1	PCBCH43			CH431001039
40	EK4387	1	PCBCH43			CH431001040
41	EK4388	1	PCBCH43			CH431001041
42	EK4389	1	PCBCH43			CH431001042
43	EK4390	1	PCBCH43			CH431001043
44	EK4391	1	PCBCH43			CH431001044
45	HEXANE	1	PCBCH43			CH431001045
46	BLANK	1	PCBCH43			CH431001046
47	EK4392(MS1)	1	PCBCH43			CH431001047
48	EK4393(MSD1)	1	PCBCH43			CH431001048
49	EK4394(MS2)	1	PCBCH43			CH431001049
50	EK4395(MSD2)	1	PCBCH43			CH431001050
51	EK4369X10	1	PCBCH43			CH431001051
52	EK4370X10	1	PCBCH43			CH431001052
53	EK4373X10	1	PCBCH43			CH431001053
54	EK4375X10	1	PCBCH43			CH431001054

57	EK4380X100	1	PCBCH43	CH431001057
58	EK4380X10000	1	PCBCH43	CH431001058
59	EK4381X10	1	PCBCH43	CH431001059
60	EK4381X100	1	PCBCH43	CH431001060
61	EK4382(RERUN)	1	PCBCH43	CH431001061
62	EK4383X10(HG ADDED)	1	PCBCH43	CH431001062
63	EK4384X10	1	PCBCH43	CH431001063
64	EK4385X10(HG ADDED)	1	PCBCH43	CH431001064
65	EK4386X10(HG ADDED)	1	PCBCH43	CH431001065
66	EK4369X100	1	PCBCH43	CH431001066
67	HEXANE	1	PCBCH43	CH431001067
68	PCB1.0	1	PCBCH43	CH431001068
69	PCB3.0	1	PCBCH43	CH431001069
70	EK4380X10,000,000	1	PCBCH43	CH431001070
71	EK4380X1,000,000	1	PCBCH43	CH431001071
72	EK4382X100	1	PCBCH43	CH431001072
73	EK4382X10	1	PCBCH43	CH431001073
74	PCB-1221	1	PCBCH43	CH431001074
75	PCB-1232	1	PCBCH43	CH431001075
76	PCB-1242	1	PCBCH43	CH431001076
77	PCB-1248	1	PCBCH43	CH431001077
78	PCB-1254	1	PCBCH43	CH431001078

9613424-0923

Reports: Delayed
Calibration mode: 1. Calibrate standards and analyze unknowns in order.
Post-sequence program: ,
Parameter string: EXTRACT,<SMD file>

9613424.0924 DATACHEM LABORATORIES

0000C6

WESTINGHOUSE HANFORD Co (3534C) NOTEBOOK - GEOTECH 4

PCB EXTRACTION 591-0719 MEDIUM: SOIL

SAMPLE NOS: EK 4368-95 MEDIUM: 8080/ METHOD: 3550

DATACHEM SAMPLE NOS.	SAMPLE WT (g)	100 ml SURR.	500 ml M.S.	EXTRACTION DATE	FINAL VOL.
BLANK I	–	✓	–	9-15-91	10 ml
BLANK II	–	✓	–		
METHOD ✓	–	✓	✓		
EK 4368	30.04	✓	–		
69	30.01	✓	–		
70	30.00	✓	–		
71	30.05	✓	–		
72	30.05	✓	–		
73	30.02	✓	–		
74	30.04	✓	–		
75	30.02	✓	–		
76	30.01	✓	–		
77	30.00	✓	–		
78	30.04	✓	–		
79	30.03	✓	–		
80	30.04	✓	–		
81	30.03	✓	–		
82	30.01	✓	–		
83	30.01	✓	–		
84	30.00	✓	–		
85	30.00	✓	–		

(CONTINUED ON NEXT PAGE)

(E) ENTRY ERROR

X Kevin Noltemeyer 9-15-91

Signature Date

[redacted] Checked by CRD 9-16-91

DATACHEM LABORATORIES

WESTINGHOUSE HANFORD. Co. (3534 C) NOTEBOOK: GEOTECH 4

PCB EXTRACTION (CONTINUED) S91-0719 MEDIUM: SOIL

SAMPLE NOS: EK 4368-~~95~~ 3 @ 9-15-91 METHOD: 3550 8080 1

DATACHEM SAMPLE NOS.	SAMPLE WT (g)	100 µl SURR.	500 µl M.S.	EXTRACTION DATE	FINAL VOL.
EK 4386	30.03	✓	–	9-15-91	10 ml
87	30.02	✓	–		
88	30.02	✓	–		
89	30.01	✓	–		
90	9-16-91 30.03 ~~30.04~~ SA	✓	–		
91 *	30.04 ~~30.03~~ SA 9-16-91	✓	–		
~~92 MS1~~	~~30.04~~	~~✓~~	~~✓~~		
~~93 MSD1~~	~~30.05~~	~~✓~~	~~✓~~		
~~94 MS2~~					
~~95 MSD2~~					

~~* used for MS & MSD~~ A.C.

SOLVENTS: $MeCl_2$ GC², B&J, BA 589

ACETONE, B&J, AZ 955

HEXANE, UV, B&J, BA 025

SURROGATE: DBC & TCMX 20 µg/ml

MATRIX SPIKE: AR 1016/1260 10 µg/ml

(E) ENTRY ERROR

X Kevin Jottemayer 9-15-91

Signature Date

Checked by CRW 9-16-91

WESTINGHOUSE HANFORD Co. # 3534C NOTEBOOK : GEOTECH-4

SAMPLE # : EK 4392 - 4395, BLK MEDIUM : SOIL

SET ZO # : 5910719 REF : 8080/3550

PCB EXTRACTION

DCL ID #	FIELD ID #	SAMPLE WT. (g)	100 µl SURR.	500 µl MS	FINAL VOL.	EXTR. DATE
BLK	—	—	✓	—	10 ML	9-16-91
EK 4392 MS,	B00 ZQ5	30.06	✓	✓		
4393 MSD,	↓	30.06	✓	✓		
4394 MS,	ZQS8	30.02	✓	✓		
4395 MSD,	↓	30.01	✓	✓		

Solvents : Meclz GC², B&J lot # BA 589
Acetone, B&J lot # AZ 955
Hexane, B&J lot # BA 025

Surrogate : DBC & TCMX 20 ug/ml
Matrix spike : AR 1016/1260 10 ug/ml.

Comments : Common w/ set 5910719, see pg. # 26 & 27

X Alfonso Galvez 9-16-91
Signature Date

Checked by R.L. 9-16-91

The Texwipe Company, USA: 1 800 284-5577, Europe: (31) 23 315621, Singapore: (65) 733 2692

9613424.0927

PACKAGE COMPLETION CHECKLIST

Transmittal No. X01366 Cross-Ref. X01299 Unit 100-DR-1
SAR or C-of-C Attached: Y X N ___ Lab ~~Data~~ Chem Pkg. No. B00ZQ4-DAT-167

	Sample: B00ZQ4										Sample: B00ZQ5									
	V	B	P	M	C	R	O	H	T	N	V	B	P	M	C	R	O	H	T	N
Verified	✓	✓	✓								✓	✓	✓							
Paginated																				
Validated																				
Checklist & Tables																				
Annotated Form 1*																				
Eng. Rpt. Form 1*																				
Sample Summary																				
Second Review																				
Final Report																				

	Sample: B00ZQ6										Sample: B00ZQ7									
	V	B	P	M	C	R	O	H	T	N	V	B	P	M	C	R	O	H	T	N
Verified	✓	✓	✓								✓	✓	✓							
Paginated																				
Validated																				
Checklist & Tables																				
Annotated Form 1*																				
Eng. Rpt. Form 1*																				
Sample Summary																				
Second Review																				
Final Report																				

	Sample: B00ZQ8										Sample: B00ZQ9									
	V	B	P	M	C	R	O	H	T	N	V	B	P	M	C	R	O	H	T	N
Verified	✓	✓	✓								✓	✓	✓							
Paginated																				
Validated																				
Checklist & Tables																				
Annotated Form 1*																				
Eng. Rpt. Form 1*																				
Sample Summary																				
Second Review																				
Final Report																				

*Form 1s completed, signed, and dated.

9613424.0928

PACKAGE COMPLETION CHECKLIST

Transmittal No. X01566 Cross-Ref. X01299 Unit 100-DR-1
SAR or C-of-C Attached: Y X N ___ Lab Data Chem Pkg. No. B00ZQ4-DAT-167

	Sample: B00ZR0										Sample: B00ZR1									
	V	B	P	M	C	R	O	H	T	N	V	B	P	M	C	R	O	H	T	N
Verified	✓	✓	✓								✓	✓	✓							
Paginated																				
Validated																				
Checklist & Tables																				
Annotated Form 1*																				
Eng. Rpt. Form 1*																				
Sample Summary																				
Second Review																				
Final Report																				

	Sample: B00ZR2										Sample: B00ZR3									
	V	B	P	M	C	R	O	H	T	N	V	B	P	M	C	R	O	H	T	N
Verified	✓	✓	✓								✓	✓	✓							
Paginated																				
Validated																				
Checklist & Tables																				
Annotated Form 1*																				
Eng. Rpt. Form 1*																				
Sample Summary																				
Second Review																				
Final Report																				

	Sample: B00ZR4										Sample: B00ZR5									
	V	B	P	M	C	R	O	H	T	N	V	B	P	M	C	R	O	H	T	N
Verified	✓	✓	✓								✓	✓	✓							
Paginated																				
Validated																				
Checklist & Tables																				
Annotated Form 1*																				
Eng. Rpt. Form 1*																				
Sample Summary																				
Second Review																				
Final Report																				

*Form 1s completed, signed, and dated.

9613424.0929

PACKAGE COMPLETION CHECKLIST

Transmittal No. X01566 Cross-Ref. X01299 Unit 100-DR-1
SAR or C-of-C Attached: Y X N ___ Lab DataChem Pkg. No. B00ZQ4-DAT-167

	Sample: B00ZR6										Sample: B00ZR7									
	V	B	P	M	C	R	O	H	T	N	V	B	P	M	C	R	O	H	T	N
Verified	✓	✓	✓								✓	✓	✓							
Paginated																				
Validated																				
Checklist & Tables																				
Annotated Form 1*																				
Eng. Rpt. Form 1*																				
Sample Summary																				
Second Review																				
Final Report																				

	Sample: B00ZR8										Sample: B00ZR9									
	V	B	P	M	C	R	O	H	T	N	V	B	P	M	C	R	O	H	T	N
Verified	✓	✓	✓								✓	✓	✓							
Paginated																				
Validated																				
Checklist & Tables																				
Annotated Form 1*																				
Eng. Rpt. Form 1*																				
Sample Summary																				
Second Review																				
Final Report																				

	Sample: B00ZS0										Sample: B00ZS1									
	V	B	P	M	C	R	O	H	T	N	V	B	P	M	C	R	O	H	T	N
Verified	✓	✓	✓								✓	✓	✓							
Paginated																				
Validated																				
Checklist & Tables																				
Annotated Form 1*																				
Eng. Rpt. Form 1*																				
Sample Summary																				
Second Review																				
Final Report																				

*Form 1s completed, signed, and dated.

9613424.0930

PACKAGE COMPLETION CHECKLIST

Transmittal No. X01566 Cross-Ref. X01299 Unit 100-DR-1
SAR or C-of-C Attached: Y X N ___ Lab Data Chem Pkg. No. B00ZQ4-DAT-167

	Sample: B00ZS2										Sample: B00ZS3									
	V	B	P	M	C	R	O	H	T	N	V	B	P	M	C	R	O	H	T	N
Verified	✓	✓	✓								✓	✓	✓							
Paginated																				
Validated																				
Checklist & Tables																				
Annotated Form 1*																				
Eng. Rpt. Form 1*																				
Sample Summary																				
Second Review																				
Final Report																				

	Sample: B00ZS4										Sample: B00ZS5									
	V	B	P	M	C	R	O	H	T	N	V	B	P	M	C	R	O	H	T	N
Verified	✓	✓	✓								✓	✓	✓							
Paginated																				
Validated																				
Checklist & Tables																				
Annotated Form 1*																				
Eng. Rpt. Form 1*																				
Sample Summary																				
Second Review																				
Final Report																				

	Sample: B00ZS7										Sample: B00ZS8									
	V	B	P	M	C	R	O	H	T	N	V	B	P	M	C	R	O	H	T	N
Verified	✓	✓	✓								✓	✓	✓							
Paginated																				
Validated																				
Checklist & Tables																				
Annotated Form 1*																				
Eng. Rpt. Form 1*																				
Sample Summary																				
Second Review																				
Final Report																				

*Form 1s completed, signed, and dated.

Westinghouse Hanford Company 9613424.0931

CHAIN OF CUSTODY

Custody Form Initiator C.E. Heiden

Company Contact Mike Stankovich Telephone 376-2493

Project Designation/Sampling Locations 100-DR-1 Collection Date 9/11/91

PCB Sampling

Ice Chest No. RM #43 Field Logbook No.

Bill of Lading/Airbill No. 24742514 3 9 Offsite Property No. W91-0-0573

Method of Shipment Emery

Shipped to Data Chem Laboratories

Possible Sample Hazards/Remarks —

Sample Identification

B00ZQ4 thru B00ZQ9
B00ZR0 thru B00ZR9
B00ZS0 thru B00ZS5 } Soil
B00ZS7
B00ZS8

☐ Field Transfer of Custody

CHAIN OF POSSESSION (Sign and Print Names)

Relinquished by:	Received by:	Date/Time:
C.E. Heiden C.E. Heiden	T. Jackson	9-13-91 1100
Relinquished by:	Received by:	Date/Time:
Relinquished by:	Received by:	Date/Time:
Relinquished by:	Received by:	Date/Time:

Final Sample Disposition

Disposal Method:	Disposed by:	Date/Time:

Comments:

A-6000-407 (12/90)

9613424.0932

DATA QUALIFICATION SUMMARY

UNIT: 100-DR-1

DOCUMENT CONTROL NUMBER: WHC-SD-EN-TI-145

ANALYSES: VOA, BNA, Pest/PCB

RFW NO.: B00ZQ4-DAT-167

SDG NO.: B00ZQ4

QUALIFICATION SUMMARY:

VOLATILES

SAMPLE NUMBERS: B00ZQ4, B00ZQ5, B00ZQ6, B00ZQ7, B00ZQ8, B00ZQ9, B00ZR0, B00ZR1, B00ZR2, B00ZR3, B00ZR4, B00ZR5, B00ZR6, B00ZR7, B00ZR8, B00ZR9, B00ZS0, B00ZS1, B00ZS2, B00ZS3, B00ZS4, B00ZS5, B00ZS7, B00ZS8

BLANKS

Due to the presence of laboratory blank contamination, the following samples were flagged "U" for acetone:

- Sample numbers B00ZQ6, B00ZQ7, B00ZQ9, B00ZR0, B00ZR1, B00ZR2, B00ZR3, B00ZR4, B00ZR5, B00ZR6, B00ZR7, B00ZR8, B00ZR9, B00ZS0, B00ZS1, B00ZS2, B00ZS3, B00ZS4, B00ZS5, B00ZS7 and B00ZS8 in SDG No. B00ZQ4.

Due to the presence of equipment blank contamination, the following samples were flagged "U" for acetone:

- Sample numbers B00ZQ6, B00ZQ7, B00ZQ9, B00ZR0, B00ZR3, B00ZR5 and B00ZS7 in SDG No. B00ZQ4.

SURROGATE RECOVERY

The surrogate recovery results did not meet the QC limits for surrogate compound toluene-d8 in the following sample:

- Sample number B00ZR9 in SDG No. B00ZQ4.

INTERNAL STANDARDS PERFORMANCE

The internal standard recovery results for chlorobenzene-d5 and 1,4-difluorobenzene exceeded QC limits for sample number

B00ZS0 in SDG No. B00ZQ4. All associated sample results were qualified as estimates and flagged "J".

The internal standard recovery results for chlorobenzene-d5 exceeded QC limits for sample number B00ZR9 in SDG No. B00ZQ4. All associated sample results were qualified as estimates and flagged "J".

SEMIVOLATILES

SAMPLE NUMBERS: B00ZQ4, B00ZQ5, B00ZQ6, B00ZQ7, B00ZQ8, B00ZQ9, B00ZR0, B00ZR1, B00ZR2, B00ZR3, B00ZR4, B00ZR5, B00ZR6, B00ZR7, B00ZR8, B00ZR9, B00ZS0, B00ZS1, B00ZS2, B00ZS3, B00ZS4, B00ZS5, B00ZS7, B00ZS8

INITIAL CALIBRATION

Due to initial calibration results outside QC limits, the following sample results were qualified as estimates and flagged "J".

- Benzoic acid, 2,4,5-trichlorophenol, 2-nitroaniline, 3-nitroaniline, 2,4-dinitrophenol, 4-nitrophenol, 4-nitroaniline, 4,6-dinitro-2-methylphenol, and pentachlorophenol in all samples associated with SDG No. B00ZQ4.

- 4-chlorophenyl-phenylether and hexachlorobenzene in sample numbers B00ZQ5, B00ZQ6, B00ZQ7, B00ZQ9, B00ZS4 and B00ZS7 in SDG No. B00ZQ4.

- Fluorene in sample numbers B00ZR0, B00ZR1 and B00ZR2 in SDG No. B00ZQ4.

PESTICIDES/PCBS

SAMPLE NUMBERS: B00ZQ4, B00ZQ5, B00ZQ6, B00ZQ7, B00ZQ8, B00ZQ9, B00ZR0, B00ZR1, B00ZR2, B00ZR3, B00ZR4, B00ZR5, B00ZR6, B00ZR7, B00ZR8, B00ZR9, B00ZS0, B00ZS1, B00ZS2, B00ZS3, B00ZS4, B00ZS5, B00ZS7, B00ZS8

DATA PACKAGE COMPLETENESS

Sample numbers B00ZQ4, B00ZR6, and B00ZR9 in SDG No. B00ZQ4 did not contain sufficient instrument log information; therefore, all results were rejected and flagged "R".

COMPOUND IDENTIFICATION AND QUANTITATION

Due to improper confirmation analysis, the following samples were rejected and flagged "R" for Arochlor-1260:

9613424.0934

B00ZQ5, B00ZQ6, B00ZQ7, B00ZQ8, B00ZQ9, B00ZR0, B00ZR1, B00ZR2, B00ZR3, B00ZR5, B00ZR6, B00ZR8, B00ZS0, B00ZS1, B00ZS2, B00ZS3, B00ZS5 and B00ZS7 in SDG No. B00ZQ4.

9613424.0935

CHAIN OF CUSTODY RECORD

Project G457-27 **Chem** X **Rad** __ **Transmittal No.** XO 1299

Sample	Unit	Validate?	Sample	Unit	Validate?
	DR-1	V B P M C R O H T			V B P M C R O H T
		V B P M C R O H T			V B P M C R O H T
		V B P M C R O H T			V B P M C R O H T
		V B P M C R O H T			V B P M C R O H T
		V B P M C R O H T			V B P M C R O H T

Date Sent	Transferred From	Transferred To	Date Rec'd	Comments
8/27/92	WHC	H. Duncan	8/27/92	verified 8/27/92
9/3/92	H. Duncan	T. Brown	9/3/92	

DATA QUALIFICATION SUMMARY

UNIT: 100-DR-1

DOCUMENT CONTROL NUMBER: WHC-SD-EN-TI-145

ANALYSES: VOA, BNA, Pest/PCB

RFW NO.: B00ZQ4-DAT-167

SDG NO.: B00ZQ4

QUALIFICATION SUMMARY:

VOLATILES

SAMPLE NUMBERS: B00ZQ4, B00ZQ5, B00ZQ6, B00ZQ7, B00ZQ8, B00ZQ9, B00ZR0, B00ZR1, B00ZR2, B00ZR3, B00ZR4, B00ZR5, B00ZR6, B00ZR7, B00ZR8, B00ZR9, B00ZS0, B00ZS1, B00ZS2, B00ZS3, B00ZS4, B00ZS5, B00ZS7, B00ZS8

BLANKS

Due to the presence of laboratory blank contamination, the following samples were flagged "U" for acetone:

- Sample numbers B00ZQ6, B00ZQ7, B00ZQ9, B00ZR0, B00ZR1, B00ZR2, B00ZR3, B00ZR4, B00ZR5, B00ZR6, B00ZR7, B00ZR8, B00ZR9, B00ZS0, B00ZS1, B00ZS2, B00ZS3, B00ZS4, B00ZS5, B00ZS7 and B00ZS8 in SDG No. B00ZQ4.

Due to the presence of equipment blank contamination, the following samples were flagged "U" for acetone:

- Sample numbers B00ZQ6, B00ZQ7, B00ZQ9, B00ZR0, B00ZR3, B00ZR5 and B00ZS7 in SDG No. B00ZQ4.

SURROGATE RECOVERY

The surrogate recovery results did not meet the QC limits for surrogate compound toluene-d8 in the following sample:

- Sample number B00ZR9 in SDG No. B00ZQ4.

INTERNAL STANDARDS PERFORMANCE

The internal standard recovery results for chlorobenzene-d5 and 1,4-difluorobenzene exceeded QC limits for sample number

B00ZS0 in SDG No. B00ZQ4. All associated sample results were qualified as estimates and flagged "J".

The internal standard recovery results for chlorobenzene-d5 exceeded QC limits for sample number B00ZR9 in SDG No. B00ZQ4. All associated sample results were qualified as estimates and flagged "J".

SEMIVOLATILES

SAMPLE NUMBERS: B00ZQ4, B00ZQ5, B00ZQ6, B00ZQ7, B00ZQ8, B00ZQ9, B00ZR0, B00ZR1, B00ZR2, B00ZR3, B00ZR4, B00ZR5, B00ZR6, B00ZR7, B00ZR8, B00ZR9, B00ZS0, B00ZS1, B00ZS2, B00ZS3, B00ZS4, B00ZS5, B00ZS7, B00ZS8

INITIAL CALIBRATION

Due to initial calibration results outside QC limits, the following sample results were qualified as estimates and flagged "J".

- Benzoic acid, 2,4,5-trichlorophenol, 2-nitroaniline, 3-nitroaniline, 2,4-dinitrophenol, 4-nitrophenol, 4-nitroaniline, 4,6-dinitro-2-methylphenol, and pentachlorophenol in all samples associated with SDG No. B00ZQ4.

- 4-chlorophenyl-phenylether and hexachlorobenzene in sample numbers B00ZQ5, B00ZQ6, B00ZQ7, B00ZQ9, B00ZS4 and B00ZS7 in SDG No. B00ZQ4.

- Fluorene in sample numbers B00ZR0, B00ZR1 and B00ZR2 in SDG No. B00ZQ4.

PESTICIDES/PCBS

SAMPLE NUMBERS: B00ZQ4, B00ZQ5, B00ZQ6, B00ZQ7, B00ZQ8, B00ZQ9, B00ZR0, B00ZR1, B00ZR2, B00ZR3, B00ZR4, B00ZR5, B00ZR6, B00ZR7, B00ZR8, B00ZR9, B00ZS0, B00ZS1, B00ZS2, B00ZS3, B00ZS4, B00ZS5, B00ZS7, B00ZS8

DATA PACKAGE COMPLETENESS

Sample numbers B00ZQ4, B00ZR6, and B00ZR9 in SDG No. B00ZQ4 did not contain sufficient instrument log information; therefore, all results were rejected and flagged "R".

COMPOUND IDENTIFICATION AND QUANTITATION

Due to improper confirmation analysis, the following samples were rejected and flagged "R" for Arochlor-1260:

B00ZQ5, B00ZQ6, B00ZQ7, B00ZQ8, B00ZQ9, B00ZR0, B00ZR1, B00ZR2, B00ZR3, B00ZR5, B00ZR6, B00ZR8, B00ZS0, B00ZS1, B00ZS2, B00ZS3, B00ZS5 and B00ZS7 in SDG No. B00ZQ4.

Westinghouse Hanford Company 9613424.0939

CHAIN OF CUSTODY

Custody Form Initiator C.E. Heiden

Company Contact Mike Stankovich Telephone 376-2493

Project Designation/Sampling Locations 100-DR-1 Collection Date 9/11/91

PCB Sampling

Ice Chest No. RM #43 Field Logbook No.

Bill of Lading/Airbill No. 24742514 3 9 Offsite Property No. W91-0-0573

Method of Shipment Emery

Shipped to Data Chem Laboratories

Possible Sample Hazards/Remarks —

Sample Identification

B00ZQ4 thru B00ZQ9
B00ZR0 thru B00ZR9
B00ZS0 thru B00ZS5 } SOIL
B00ZS7
B00ZS8

☐ Field Transfer of Custody

CHAIN OF POSSESSION		(Sign and Print Names)
Relinquished by: C.E. Heiden C.E. Heiden	Received by: T. Jackson	Date/Time: 9-13-91 1100
Relinquished by:	Received by:	Date/Time:
Relinquished by:	Received by:	Date/Time:
Relinquished by:	Received by:	Date/Time:

Final Sample Disposition

Disposal Method:	Disposed by:	Date/Time:

Comments:

A-6000-407 (12/90)

9613424.0940

ANALYTICAL REQUEST FORM

DATA CHEM LABORATORIES

1. ☑ **REGULAR Status**

☐ **RUSH Status Requested - ADDITIONAL CHARGE**

RESULTS REQUIRED BY _____ DATE

CONTACT DATACHEM LABS PRIOR TO SENDING SAMPLES.

2. Date 9-13-91 Purchase Order No. _____

3. Company Name Westinghouse Hanford Co.

Address P.O. Box 1970

Richland, WA

Person to Contact Mike Stankovich

Telephone (509) 376-2493

Fax Telephone ( ) _____

Billing Address (if different from above)

_____

_____

4. **Sample Collection**

Sampling Site _____

Industrial Process _____

Date of Collection 9-11-91

Time Collected _____

Date of Shipment 9-12-91

Chain of Custody No. _____

5. **REQUEST FOR ANALYSES**

Laboratory Use Only	Client Sample Number	Media Type*	Sample Volume (Liters)	ANALYSES REQUESTED - Use Method Number if Known
EK 4368	B00 ZQ4	Soil		Volatiles (8240); Semi-Vols (8270); PCB's (8080)
4369	ZQ5			
4370	ZQ6			
4371	ZQ7			
4372	ZQ8			
4373	ZQ9			
4374	ZR0			
4375	ZR1			
4376	ZR2			
4377	ZR3			
4378	ZR4			
4379	ZR5			

*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 _____

_____

Possible Contamination and/or Chemical Hazards _____

7. Requested by _____

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

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9613424.0941

ANALYTICAL REQUEST FORM

DATA CHEM LABORATORIES

1. ☑ REGULAR Status

☐ RUSH Status Requested - ADDITIONAL CHARGE

RESULTS REQUIRED BY _____ DATE

CONTACT DATACHEM LABS PRIOR TO SENDING SAMPLES.

2. Date 9-13-91 Purchase Order No. _____

3. Company Name Westinghouse Hanford Co.

Address P.O. Box 1970

Richland, WA

Person to Contact Mike Stankovich

Telephone (509) 376-2493

Fax Telephone ( ) _____

Billing Address (if different from above)

_____

_____

4. Sample Collection

Sampling Site _____

Industrial Process _____

Date of Collection 9-11-91

Time Collected _____

Date of Shipment 9-12-91

Chain of Custody No. _____

5. REQUEST FOR ANALYSES

Laboratory Use Only	Client Sample Number	Media Type*	Sample Volume (Liters)	ANALYSES REQUESTED - Use Method Number if Known
EK 4380	B00 ZR6	Soil		Volatiles (8240); Semi-Vols (8270); PCB's (8080)
4381	ZR7			
4382	ZR8			
4383	ZR9			
4384	ZS0			
4385	ZS1			
4386	ZS2			
4387	ZS3			
4388	ZS4			
4389	ZS5			
4390	ZS7			
4391	ZS8			

*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 _____

Possible Contamination and/or Chemical Hazards _____

7. Requested by _____

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

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9613424.0942

ANALYTICAL REQUEST FORM

DATA CHEM LABORATORIES

1. ☒ **REGULAR Status**

☐ **RUSH Status Requested - ADDITIONAL CHARGE**

RESULTS REQUIRED BY _____ DATE

CONTACT DATACHEM LABS PRIOR TO SENDING SAMPLES.

2. Date 9-13-91 Purchase Order No. _____

3. Company Name Westinghouse Hanford Co.

Address P.O. Box 1970

Richland, WA

Person to Contact Mike Stankovich

Telephone (509) 376-2493

Fax Telephone ( ) _____

Billing Address (if different from above)

_____

_____

4. **Sample Collection**

Sampling Site _____

Industrial Process _____

Date of Collection 9-11-91

Time Collected _____

Date of Shipment 9-12-91

Chain of Custody No. _____

5. **REQUEST FOR ANALYSES**

Laboratory Use Only	Client Sample Number	*Media Type*	Sample Volume (Liters)	ANALYSES REQUESTED - Use Method Number if Known
EK 4392	MS1	Soil		Volatiles (8240); Semi-Vols (8270); PCB's (8080)
4393	MSD1			
4394	MS2			
4395	MSD2			

*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 _____

_____

Possible Contamination and/or Chemical Hazards _____

7. Requested by _____

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**

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9613424.0943

ANALYTICAL REQUEST FORM

DATA CHEM LABORATORIES

1. ☐ **REGULAR Status**

☐ **RUSH Status Requested - ADDITIONAL CHARGE**

RESULTS REQUIRED BY _____ DATE

CONTACT DATACHEM LABS PRIOR TO SENDING SAMPLES.

2. Date 9/12/91 Purchase Order No. _____

3. Company Name Westinghouse Hanford Co.

Address P.O. Box 1970

Richland, WA

Person to Contact Mike Stankovich

Telephone (509) 376-2493

Fax Telephone ( ) _____

Billing Address (if different from above)

_____

_____

4. **Sample Collection**

Sampling Site 100-DR-1

Industrial Process _____

Date of Collection 9/11/91

Time Collected _____

Date of Shipment 9/12/91

Chain of Custody No. _____

5. **REQUEST FOR ANALYSES**

Laboratory Use Only	Client Sample Number	Media Type*	Sample Volume (Liters)	ANALYSES REQUESTED - Use Method Number if Known
	B00ZQ4 thru B00ZQ9	Soil		All samples to be analyzed for the following: VOA Method 8240 - 180ml bottle
				Semi-VOA Method 8270 } PCB's Method 8080 } 250ml bottle
	B00ZR0 thru B00ZR9	Soil		
				Note: Total Activity Report B00ZS7 is for B00ZQ4, B00ZS7 and B00ZS8. (Reprensative of sand used for QA samples)
	B00ZS0 thru B00ZS5	Soil		
	B00ZS7	Soil		
	B00ZS8	Soil		

*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 9/12/91 JJ (ACL) - THREE Samples Missing [VOAs B00ZS7-8 ; SV/PCB B00ZQ4] on Receipt

Possible Contamination and/or Chemical Hazards _____

7. Requested by Mike Stankovich

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

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1 Sender's Federal Express Account Number: 1094-4715-3
Date: 11.8.91

From (Your Name) Please Print: J. Stowell
Your Phone Number (Very Important): 801-266-7700
Company: DATACHEM LABORATORIES
Department/Floor No
Street Address: 960 W LEVOY DR
City: SALT LAKE CITY State: UT ZIP Required: 8 4 1 2 3

2 To (Recipient's Name) Please Print: Jeanette Duncan
Recipient's Phone Number (Very Important): (509) 373 3275
Company: Westinghouse Environmental
Department/Floor No
Exact Street Address (We Cannot Deliver to P.O. Boxes or P.O. Zip Codes): 2355 Stevens Drive MSIN T6-08
City: [redacted] Richland State: WA ZIP Required: 99352

YOUR INTERNAL BILLING REFERENCE INFORMATION (First 24 characters will appear on invoice.): 3019

H IF HOLD FOR PICK-UP, Print FEDEX Address Here
Street Address
City State ZIP Required

3 PAYMENT 1 [XX] Bill Sender Acct No Req'd 2 [ ] Bill Recipient's FedEx Acct No Fill in Account Number below 3 [ ] Bill 3rd Party FedEx Acct No Fill in Account Number below (req'd) 4 [ ] Bill Credit Card Fill in Credit Card No below (req'd)
5 [ ] Cash/Check Acct./Credit Card No Exp Date

4 SERVICES (Check only one box)

Priority Overnight	Standard Overnight
11 [ ] YOUR PACKAGING	51 [XX] YOUR PACKAGING
16 [ ] FEDEX LETTER *	56 [ ] FEDEX LETTER *
12 [ ] FEDEX PAK *	52 [ ] FEDEX PAK *
13 [ ] FEDEX BOX	53 [ ] FEDEX BOX
14 [ ] FEDEX TUBE	54 [ ] FEDEX TUBE
Economy Two Day	**Government Overnight**
30 [ ] ECONOMY	46 [ ] GOVT LETTER
	41 [ ] GOVT PACKAGE
Freight Service	
70 [ ] OVERNIGHT	80 [ ] TWO DAY

5 DELIVERY AND SPECIAL HANDLING (Check services required)
1 [ ] HOLD FOR PICK-UP (Fill in Box H)
2 [ ] DELIVER WEEKDAY
3 DELIVER SATURDAY (Extra charge) [ ]
4 [ ] DANGEROUS GOODS (Extra charge)
5 [ ]
6 [ ] DRY ICE lbs
7 [ ] OTHER SPECIAL SERVICE
8 [ ]
9 [ ] SATURDAY PICK UP
10 [ ]

6 PACKAGES | WEIGHT In Pounds Only | YOUR DECLARED VALUE (See right)
2
Total Total Total
2
DIM SHIPMENT (Charge-able Weight)
[ ] lbs.
x x
Dimensions

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REVISION DATE 4/91
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082

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CUSTOMER: PLEASE REMOVE ONE OF THESE LABELS AND PLACE IT ABOVE THE AIRBILL ON YOUR PACKAGE.

0790245035 0790245035

961342A-0944

Client: Westinghouse Hanford Co. Date: 11/6/91

OCL SET ID: 591-0719-BC Instrument: MS-D

OCL Sample #3: EK 4368-93 Supervisor:

Injection date	Injection time	file name	OCL Sample #/ soln #	Client sample #	Analyst
9/30/91	10:08	ZL3BK0917	SBLK01	—	Willis
	12:05	ZL5EK4391	~~B00~~ EK4391	B00Z59	
rst	11:12	ZL4EK4368	EK4368	B00ZQ4	
is	8:49	ZL1TUNE	DFTPP	—	Can't find CCV on raw data
	9:06	ZL2550	SW2080		
9/28/91	20:20	ZI1TUNE	DFTPP	—	
	20:38	ZI25160	SW2077	—	
	21:35	ZI35120	SW2078	—	
	22:35	ZI4580	SW2079	—	
	23:32	ZI5550	SW2080		
9/29/91	00:41	ZI6520	SW2081	—	
10/1/91	5:44	ZM7TUNE	DFTPP	—	
	6:03	ZM8550	SW2080	— ✓	
	7:21	ZM9BK0917	SBLK02	—	
	9:40	ZM11EK4370D	EK4370 ~~B00ZQ~~	B00ZQ6	
	10:33	ZM12EK4369D	EK4369	B00ZQ5	
	11:32	ZM13EK4371D	EK4371	B00ZQ7	
	13:30	ZM15EK4373D	EK4373	B00ZQ9	
	15:28	ZM17EK4390	EK4390	B00Z57	
	16:22	ZM18EK4388	EK4388	B00Z54	
10/3/91	2:57	ZQ2TUNE	DFTPP	—	
	4:17	ZQ45160	SW2077	—	
	5:13	ZQ55120	SW2078	—	
	6:10	ZQ6580	SW2079	—	
	7:06	ZQ7550			
	8:12	ZQ8520	SW2081	—	
	10:44	ZQ10EK4389	EK4389	B00Z55	

Continued on Page 10 →

Injection Date	Injection time	file name	DCL Sample #/ Soln #	Client Sample #	Analyst
10/3/91	12:25	ZQ12EK4382	EK4382	B00ZR8	Willis
	11:34	ZQ11EK4381	EK4381	B00ZR7	
	13:15	ZQ13EK4379	EK4379	B00ZR5	
	14:05	ZQ14EK4378	EK4378	B00ZR4	
	15:58	ZR1TUNE	DFTPP	—	
	~~16:15~~ cw 11-6-91	ZR2550	[redacted]	—	
	18:17	ZR4EK4386D	EK4386	B00ZS2	
	19:13	ZR5EK4385D	EK4385	B00ZS1	
	20:05	ZR6EK4372D	EK4372	B00ZQB	
	20:57	ZR7EK4383D	EK4383	B00ZR9	
	22:39	ZR9EK4384D	EK4384	B00ZS0	
	23:34	ZR10EK4377D	EK4377	B00ZR3	
10/4/91	00:24	ZR11EK75D	EK4375	B00ZR1	
	1:37	ZR12EK76D	EK4376D	B00ZR2	
	5:33	ZS2TUNE	DFTPP	—	
	[redacted]	[redacted]	[redacted]	—	
	8:22	ZS5EK4392MS	EK4392MS	B00ZR2MS	
	10:18	ZS7EK4393MD	EK4393MSD	B00ZR2MSD	
	11:08	ZS8EK4394MS	EK4394MS	B00ZS3MS	
	12:12	ZS9EK4395MSD	EK4395MSD	B00ZS3MSD	
	16:24	ZS13EK4374D	EK4374	B00ZR0	
10/5/91	00:28	ZT1TUNE	DFTPP	—	
	00:46	ZT2S100	100 ug/ml Chlordane	—	
	1:33	ZT3S500	500 ug/ml Toxaphene	—	
	2:15	ZT4EK4379	EK4379 ~~B00ZR5~~ cw 11-6-91	B00ZR5	
	2:58	ZT5EK4381	EK4381	B00ZR7	
	3:41	ZT6EK4382	EK4382	B00ZR9	
	4:23	ZT7EK4386	EK4386	B00ZS2	
	5:16	ZT8EK4384	EK4384	B00ZS0	
	6:15	ZT9EK4385	EK4385	B00ZS1	

Continued on Page 11

Injection date	Injection time	filename	OCL sample #/solvent	Client sample #	Analyst
10/5/91	7:36	ZT10EK4375	B00ZR1 CW 11-5-91	EK4375	Willis
	8:21	ZT11EK4378	B00ZR4	EK4378	
	9:03	ZT12EK4377	EK4377	B00ZR3	
	9:45	ZT13EK4373	EK4373	B00ZQ9	
	10:57	ZT14EK4383	EK4383	B00ZR9	
	11:45	ZT15EK4372	EK4372	B00ZQ8	
	18:45	ZU9TUNE	DFTPP	—	
	21:42	ZU13S500	500ng/ml Toxaphene	—	
	23:21	ZU15S100	100ng/ml chlordane	—	
10/6/91	00:05	ZU16EK4376	EK4376	Ret/RB B00ZR2	
	1:59	ZU18EK4369	EK4369	B00ZQ5	where is the 12ng std? in BNA
10/4/91	6:20	PR3TUNE	DFTPP	—	
	6:37	PR4S160	SW2077	—	
	7:41	PR5S120	SW2078	—	
	8:43	PR6S80	SW2079	—	
	[redacted]	[redacted]	[redacted]	—	
	[redacted]	[redacted]	[redacted]	—	
10/5/91	00:30	PS1TUNE	DFTPP	—	
	[redacted]	[redacted]	[redacted]	—	✓
	3:30	PS5EK4387	EK4387	B00ZS3	
10/8/91	3:44	ZV1TUNE	CW 11-5-91 ~~EK~~ DFTPP	—	
	4:12	ZV2S160	SW2077	—	
	[redacted]	[redacted]	[redacted]	— ✓	
	6:12	ZV4S20	SW2081	—	
	7:05	ZV5S120	SW2078	—	
	8:02	ZV6S80	SW2079	—	
10/15/91	20:06	AE1TUNE	DFTPP	—	
	[redacted]	[redacted]	[redacted]	— ✓	
	21:23	AE3EK4380	EK4380	B00ZR6	

11-5-91

11

VOLATILE ORGANIC ANALYSIS, SOIL MATRIX, (ug/Kg)

Project: WESTINGHOUSE-HANFORD																					
Laboratory: S-Cubed																					
Case:	SDG: B00ZS6																				
Sample Number		B00ZS6																			
Location		100-D																			
Remarks		Split																			
Sample Date		9/11/91																			
Analysis Date		9/17/91																			
Volatile Organic Compound	CRQL	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
Chloromethane	10	10	UJ																		
Bromomethane	10	10	UJ																		
Vinyl Chloride	10	10	UJ																		
Chloroethane	10	10	UJ																		
Methylene Chloride	10	6	UJ																		
Acetone	10	10	UJ																		
Carbon Disulfide	10	5	UJ																		
1,1-Dichloroethene	10	5	UJ																		
1,1-Dichloroethane	10	5	UJ																		
1,2-Dichloroethene (total)	10	5	UJ																		
Chloroform	10	5	UJ																		
1,2-Dichloroethane	10	5	UJ																		
2-Butanone	10	10	UJ																		
1,1,1-Trichloroethane	10	5	UJ																		
Carbon Tetrachloride	10	5	UJ																		
Bromodichloromethane	10	5	UJ																		
1,2-Dichloropropane	10	5	UJ																		
cis-1,3-Dichloropropene	10	5	UJ																		
Trichloroethene	10	5	UJ																		
Dibromochloromethane	10	5	UJ																		
1,1,2-Trichloroethane	10	5	UJ																		
Benzene	10	5	UJ																		
trans-1,3-Dichloropropene	10	5	UJ																		
Bromoform	10	5	UJ																		
4-Methyl-2-pentanone	10	10	UJ																		
2-Hexanone	10	10	UJ																		
Tetrachloroethene	10	5	UJ																		
1,1,2,2-Tetrachloroethane	10	5	UJ																		
Toluene	10	5	UJ																		
Chlorobenzene	10	5	UJ																		
Ethylbenzene	10	5	UJ																		
Styrene	10	5	UJ																		
Xylene (total)	10	5	UJ																		
Vinyl Acetate	10	10	UJ																		

9613424.0948

SEMIVOLATILE ORGANIC ANALYSIS, SOIL MATRIX, (ug/Kg)

Project: WESTINGHOUSE-HANFORD																					
Laboratory: S-Cubed																					
Case:	SDG: B00ZS6																				
Sample Number		B00ZS6																			
Location		100-D																			
Sample Date		Split																			
Extraction Date		09/16/91																			
Analysis Date		09/24/91																			
Semivolatile Compound	CRQL	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
Phenol	330	660	U																		
bis(2-Chloroethyl)ether	330	660	U																		
2-Chlorophenol	330	660	U																		
1,3-Dichlorobenzene	330	660	U																		
1,4-Dichlorobenzene	330	660	U																		
1,2-Dichlorobenzene	330	660	U																		
2-Methylphenol	330	660	U																		
2,2'-oxybis(1-Chloropropane)	330	660	U																		
4-Methylphenol	330	660	U																		
N-Nitroso-di-n-propylamine	330	660	U																		
Hexachloroethane	330	660	U																		
Nitrobenzene	330	660	U																		
Isophorone	330	660	U																		
2-Nitrophenol	330	660	U																		
2,4-Dimethylphenol	330	660	U																		
Benzoic acid	1700	3200	U																		
bis(2-Chloroethoxy)methane	330	660	U																		
2,4-Dichlorophenol	330	660	U																		
1,2,4-Trichlorobenzene	330	660	U																		
Naphthalene	330	660	U																		
4-Chloroaniline	330	660	U																		
Hexachlorobutadiene	330	660	U																		
4-Chloro-3-methylphenol	330	660	U																		
2-Methylnaphthalene	330	660	U																		
Hexachlorocyclopentadiene	330	660	U																		
2,4,6-Trichlorophenol	330	660	U																		
2,4,5-Trichlorophenol	1700	3200	U																		
2-Chloronaphthalene	330	660	U																		
2-Nitroaniline	1700	3200	U																		
Dimethylphthalate	330	660	U																		
Acenaphthylene	330	660	U																		
2,6-Dinitrotoluene	330	660	U																		
3-Nitroaniline	1700	3200	U																		
Benzyl Alcohol	330	660	U																		

9613424.0949

SEMIVOLATILE ORGANIC ANALYSIS, SOIL MATRIX, (ug/Kg)

Project: WESTINGHOUSE-HANFORD																						
Laboratory: S-Cubed																						
Case:	SDG: B00ZS6																					
Sample Number		B00ZS6																				
Location		100-D																				
Sample Date		Split																				
Extraction Date		09/16/91																				
Analysis Date		09/24/91																				
Semivolatile Compound	CRQL	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	
Acenaphthene	330	660	U																			
2,4-Dinitrophenol	1700	3200	U																			
4-Nitrophenol	1700	3200	U																			
Dibenzofuran	330	660	U																			
2,4-Dinitrotoluene	330	660	U																			
Diethylphthalate	330	660	U																			
4-Chlorophenyl-phenyl ether	330	660	U																			
Fluorene	330	660	U																			
4-Nitroaniline	1700	3200	U																			
4,6-Dinitro-2-methylphenol	1700	3200	U																			
N-Nitrosodiphenylamine	330	660	U																			
4-Bromophenyl-phenylether	330	660	U																			
Hexachlorobenzene	330	660	U																			
Pentachlorophenol	1700	3200	U																			
Phenanthrene	330	660	U																			
Anthracene	330	660	U																			
Di-n-butylphthalate	330	660	U																			
Fluoranthene	330	150	J																			
Pyrene	330	93	J																			
Butylbenzylphthalate	330	660	U																			
3,3'-Dichlorobenzidine	330	1300	U																			
Benz(a)anthracene	330	120	J																			
Chrysene	330	660	U																			
bis(2-Ethylhexyl)phthalate	330	660	U																			
Di-n-octylphthalate	330	660	U																			
Benzo(b)fluoranthene	330	21	J																			
Benzo(k)fluoranthene	330	660	U																			
Benzo(a)pyrene	330	660	U																			
Indeno(1,2,3-cd)pyrene	330	660	U																			
Dibenz(a,g)anthracene	330	660	U																			
Benzo(g,h,i)perylene	330	660	U																			
Bis(2-Chloroisopropyl)ether	330	660	U																			

9613424.0950

PESTICIDE/PCB ORGANIC ANALYSIS, SOIL MATRIX, (ug/Kg)

Project: WESTINGHOUSE-HANFORD																					
Laboratory: S-Cubed																					
Case:	SDG: B00ZS6																				
Sample Number		B00ZS6																			
Location		100-D																			
Remarks		Split																			
Sample Date		9/11/91																			
Extraction Date		9/16/91																			
Analysis Date		9/28/91																			
Pesticide/PCB	CRQL	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
alpha-BHC	1.7	4.0	U																		
beta-BHC	1.7	4.0	U																		
delta-BHC	1.7	4.0	U																		
gamma-BHC (Lindane)	1.7	4.0	U																		
Heptchlor	1.7	4.0	U																		
Aldrin	1.7	4.0	U																		
Heptachlor epoxide	1.7	4.0	U																		
Endosulfan I	1.7	4.0	U																		
Dieldrin	3.3	8.1	U																		
4,4'-DDE	3.3	8.1	U																		
Endrin	3.3	8.1	U																		
Endosulfan II	3.3	8.1	U																		
4,4'-DDD	3.3	8.1	U																		
Endosulfan sulfate	3.3	8.1	U																		
4,4'-DDT	3.3	8.1	UJ																		
Methoxychlor	17.0	40.0	U																		
Endrin Ketone	3.3	8.1	U																		
alpha-Chlordane	1.7	40.0	U																		
gamma-Chlordane	1.7	40.0	U																		
Toxaphene	170.0	81.0	U																		
Arochlor-1016	33.0	40.0	U																		
Arochlor-1221	33.0	40.0	U																		
Arochlor-1232	67.0	40.0	U																		
Arochlor-1242	33.0	40.0	U																		
Arochlor-1248	33.0	40.0	U																		
Arochlor-1254	33.0	81.0	U																		
Arochlor-1260	33.0	81.0	U																		

9613424.0951

Project: WESTINGHOUSE-HANFORD																					
Laboratory: DataChem																					
Case	SDG: B00ZQ4																				
Sample Number		B00ZQ4		B00ZQ5		B00ZQ6		B00ZQ7		B00ZQ8		B00ZQ9		B00ZR0		B00ZR1		B00ZR2		B00ZR3	
Location		100-D		151-D-A-4		190-DR-		190-DR-		190-D-E4-		190-D-E4-		190-D-E4-		185-D-C4-		185-D-C4-		185-D-C4-	
Remarks		TB				E4-S13		E4-S12		S9A		S9B		S9C		S11A		S11B		S11C	
Sample Date		09/11/91		09/11/91		09/11/91		09/11/91		09/11/91		09/11/91		09/11/91		09/11/91		09/11/91		09/11/91	
Analysis Date		09/18/91		09/19/91		09/20/91		09/20/91		09/20/91		09/20/91		09/20/91		09/19/91		09/19/91		09/19/91	
Volatile Organic Compound	CRQ	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
Chloromethane	10	3	U	3	U	3	U	3	U	3	U	3	U	3	U	3	U	3	U	3	U
Bromomethane	10	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
Vinyl Chloride	10	3	U	3	U	3	U	3	U	3	U	3	U	3	U	3	U	3	U	3	U
Chloroethane	10	3	U	3	U	3	U	3	U	3	U	3	U	3	U	3	U	3	U	3	U
Methylene Chloride	10	3	U	3	U	3	U	3	U	3	U	3	U	3	U	3	U	3	U	3	U
Acetone	10	13	U	20	U	3	U	11	U	37	U	13	U	8	U	11	U	15	U	10	U
Carbon Disulfide	10	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
1,1-Dichloroethene	10	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
1,1-Dichloroethane	10	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
1,2-Dichloroethene (total)	10	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
Chloroform	10	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
1,2-Dichloroethane	10	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
2-Butanone	10	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
1,1,1-Trichloroethane	10	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Carbon Tetrachloride	10	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Bromodichloromethane	10	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
1,2-Dichloropropane	10	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
cis-1,3-Dichloropropene	10	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
Trichloroethene	10	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Dibromochloromethane	10	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
1,1,2-Trichloroethane	10	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
Benzene	10	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
trans-1,3-Dichloropropene	10	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
Bromoform	10	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
4-Methyl-2-pentanone	10	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
2-Hexanone	10	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
Tetrachloroethene	10	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
1,1,2,2-Tetrachloroethane	10	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Toluene	10	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	0.9	J
Chlorobenzene	10	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Ethylbenzene	10	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Styrene	10	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
Xylene (total)	10	0.9	U	0.9	U	0.9	U	0.9	U	0.9	U	0.9	U	0.9	U	0.9	U	0.9	U	0.9	U

EB = Equipment Blank, FB - Field Blank, TB = Trip Blank

9613424.0952

Project: WESTINGHOUSE-HANFORD																					
Laboratory: DataChem																					
Case	SDG: B00ZQ4																				
Sample Number		B00ZR4		B00ZR5		B00ZR6		B00ZR7		B00ZR8		B00ZR9		B00ZS0		B00ZS1		B00ZS2		B00ZS3	
Location		183-D-C4-		183-D-C4-		105-DR-		181-D-E4-		181-DR-		190-D-C4-		189-D-C4-		186-D-C4-		186-D-C4-		105-D-E4-	
Remarks		S3A		S3B		E4-S11		S1A		S1A		S13		S10		S12A		S12		S2	
Sample Date		09/11/91		09/11/91		09/11/91		09/11/91		09/11/91		09/11/91		09/11/91		09/11/91		09/11/91		09/11/91	
Analysis Date		09/19/91		09/20/91		09/19/91		09/19/91		09/19/91		09/19/91		09/19/91		09/19/91		09/19/91		09/19/91	
Volatile Organic Compound	CRQ	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
Chloromethane	10	3	U	3	U	3	U	3	U	3	U	3	UJ	3	U	3	U	3	U	3	U
Bromomethane	10	2	U	2	U	2	U	2	U	2	U	2	UJ	2	U	2	U	2	U	2	U
Vinyl Chloride	10	3	U	3	U	3	U	3	U	3	U	3	UJ	3	U	3	U	3	U	3	U
Chloroethane	10	3	U	3	U	3	U	3	U	3	U	3	UJ	3	U	3	U	3	U	3	U
Methylene Chloride	10	2	U	3	U	3	U	3	U	3	U	3	UJ	3	U	3	U	3	U	3	U
Acetone	10	15	U	9	U	11	U	30	U	18	U	63	UJ	31	U	26	U	32	U	6	U
Carbon Disulfide	10	2	U	2	U	2	U	2	U	2	U	2	UJ	2	U	2	U	2	U	2	U
1,1-Dichloroethene	10	2	U	2	U	2	U	2	U	2	U	2	UJ	2	U	2	U	2	U	2	U
1,1-Dichloroethane	10	2	U	2	U	2	U	2	U	2	U	2	UJ	2	U	2	U	2	U	2	U
1,2-Dichloroethene (total)	10	2	U	2	U	2	U	2	U	2	U	2	UJ	2	U	2	U	2	U	2	U
Chloroform	10	2	U	2	U	2	U	2	U	2	U	2	UJ	2	U	2	U	2	U	2	U
1,2-Dichloroethane	10	1	U	1	U	1	U	1	U	1	U	1	UJ	1	U	1	U	1	U	1	U
2-Butanone	10	2	U	2	U	2	U	2	U	2	U	17	J	2	U	13		18		2	U
1,1,1-Trichloroethane	10	1	U	1	U	1	U	1	U	1	U	1	UJ	1	UJ	1	U	1	U	1	U
Carbon Tetrachloride	10	1	U	1	U	1	U	1	U	1	U	1	UJ	1	UJ	1	U	1	U	1	U
Bromodichloromethane	10	1	U	1	U	1	U	1	U	1	U	1	UJ	1	UJ	1	U	1	U	1	U
1,2-Dichloropropane	10	1	U	1	U	1	U	1	U	1	U	1	UJ	1	UJ	1	U	1	U	1	U
cis-1,3-Dichloropropene	10	2	U	2	U	2	U	2	U	2	U	2	UJ	2	UJ	2	U	2	U	2	U
Trichloroethene	10	1	U	1	U	1	U	1	U	1	U	1	UJ	1	UJ	1	U	1	U	1	U
Dibromochloromethane	10	1	U	1	U	1	U	1	U	1	U	1	UJ	1	UJ	1	U	1	U	1	U
1,1,2-Trichloroethane	10	2	U	2	U	2	U	2	U	2	U	2	UJ	2	UJ	2	U	2	U	2	U
Benzene	10	1	U	1	U	1	U	1	U	1	U	1	UJ	1	UJ	1	U	1	U	1	U
trans-1,3-Dichloropropene	10	2	U	2	U	2	U	2	U	2	U	2	UJ	2	UJ	2	U	2	U	2	U
Bromoform	10	1	U	1	U	1	U	1	U	1	U	1	UJ	1	UJ	1	U	1	U	1	U
4-Methyl-2-pentanone	10	2	U	2	U	2	U	2	U	2	U	2	UJ	2	UJ	2	U	2	U	2	U
2-Hexanone	10	2	U	2	U	2	U	2	U	2	U	9	J	2	UJ	6		11		2	U
Tetrachloroethene	10	1	U	1	U	1	U	1	U	1	U	1	UJ	1	UJ	1	U	1	U	1	U
1,1,2,2-Tetrachloroethane	10	1	U	1	U	1	U	1	U	1	U	1	UJ	1	UJ	1	U	1	U	1	U
Toluene	10	1	U	1	J	1	U	1	U	1	U	1	UJ	1	UJ	1	U	1	U	1	U
Chlorobenzene	10	1	U	1	U	1	U	1	U	1	U	1	UJ	1	UJ	1	U	1	U	1	U
Ethylbenzene	10	1	U	1	U	1	U	1	U	1	U	1	UJ	1	UJ	1	U	1	U	1	U
Styrene	10	2	U	2	U	2	U	2	U	2	U	2	UJ	2	UJ	2	U	2	U	2	U
Xylene (total)	10	0.9	U	0.9	U	0.9	U	0.9	U	0.9	U	0.9	UJ	0.9	UJ	0.9	U	0.9	U	0.9	U

EB = Equipment Blank, FB - Field Blank, TB = Trip Blank

9613424.0953

Project: WESTINGHOUSE-HANFORD																					
Laboratory: DataChem																					
Case	SDG: B00ZQ4																				
Sample Number		B00ZS4		B00ZS5		B00ZS7		B00ZS8													
Location		Pole C5204		100-D		100-D		100-D													
Remarks				Duplicate		FB		EB													
Sample Date		09/11/91		09/11/91		09/11/91		09/11/91													
Analysis Date		09/19/91		09/19/91		09/20/91		09/20/91													
Volatile Organic Compound	CRQ	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
Chloromethane	10	3	U	3	U	3	U	3	U												
Bromomethane	10	2	U	2	U	2	U	2	U												
Vinyl Chloride	10	3	U	3	U	3	U	3	U												
Chloroethane	10	3	U	3	U	3	U	3	U												
Methylene Chloride	10	3	U	3	U	3	U	3	U												
Acetone	10	11	U	6	U	4	U	23	U												
Carbon Disulfide	10	2	U	2	U	2	U	2	U												
1,1-Dichloroethene	10	2	U	2	U	2	U	2	U												
1,1-Dichloroethane	10	2	U	2	U	2	U	2	U												
1,2-Dichloroethene (total)	10	2	U	2	U	2	U	2	U												
Chloroform	10	2	U	2	U	2	U	2	U												
1,2-Dichloroethane	10	1	U	1	U	1	U	1	U												
2-Butanone	10	10		2	U	2	U	2	U												
1,1,1-Trichloroethane	10	1	U	1	U	1	U	1	U												
Carbon Tetrachloride	10	1	U	1	U	1	U	1	U												
Bromodichloromethane	10	1	U	1	U	1	U	1	U												
1,2-Dichloropropane	10	1	U	1	U	1	U	1	U												
cis-1,3-Dichloropropene	10	2	U	2	U	2	U	2	U												
Trichloroethene	10	1	U	1	U	1	U	1	U												
Dibromochloromethane	10	1	U	1	U	1	U	1	U												
1,1,2-Trichloroethane	10	2	U	2	U	2	U	2	U												
Benzene	10	1	U	1	U	1	U	1	U												
trans-1,3-Dichloropropene	10	2	U	2	U	2	U	2	U												
Bromoform	10	1	U	1	U	1	U	1	U												
4-Methyl-2-pentanone	10	2	U	2	U	2	U	2	U												
2-Hexanone	10	2	U	2	U	2	U	2	U												
Tetrachloroethene	10	1	U	1	U	1	U	1	U												
1,1,2,2-Tetrachloroethane	10	1	U	1	U	1	U	1	U												
Toluene	10	1	U	0.9	J	1	U	1	U												
Chlorobenzene	10	1	U	1	U	1	U	1	U												
Ethylbenzene	10	1	U	1	U	1	U	1	U												
Styrene	10	2	U	2	U	2	U	2	U												
Xylene (total)	10	0.9	U	0.9	U	0.9	U	0.9	U												

EB = Equipment Blank, FB - Field Blank, TB = Trip Blank

9613424.0950

SEMIVOLATILE ORGANIC ANALYSIS, SOIL MATRIX, (ug/Kg)

B00ZQ4, B00ZR6 ~~why is~~ SVI

Project: WESTINGHOUSE-HANFORD																					
Laboratory: DataChem																					
Case	SDG: B00ZQ4																				
Sample Number		B00ZQ4		B00ZR5		B00ZR7		B00ZR8		B00ZS2		B00ZS3		B00ZS4		B00ZS5		B00ZS7		B00ZS8	
Location		100-D		183-D-C4-		181-D-E4-		181-DR-		186-D-C4-		105-D-E4-		Pole C5204		100-D		100-D		100-D	
Remarks		TB		S3B		S1A		S1A		S12		S2				Duplicate		FB		EB	
Sample Date		09/11/91		09/11/91		09/11/91		09/11/91		09/11/91		09/11/91		09/11/91		09/11/91		09/11/91		09/11/91	
Extraction Date		09/17/91		09/17/91		09/17/91		09/17/91		09/17/91		09/17/91		09/17/91		09/17/91		09/17/91		09/17/91	
Analysis Date		09/30/91		10/03/91		10/03/91		10/03/91		10/03/91		10/05/91		10/01/91		10/03/91		10/01/91		09/30/91	
Semivolatile Compound	CRQL	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
N-nitroso-dimethylamine	1000	1000	R	1000	U	1000	U	1000	U	10000	U	1000	U	1000	U	1000	U	1000	U	1000	U
Phenol	330	330	R	330	U	330	U	330	U	3300	U	330	U	330	U	330	U	330	U	330	U
bis(2-chloroethyl)ether	330	330	R	330	U	330	U	330	U	3300	U	330	U	330	U	330	U	330	U	330	U
2-chlorophenol	330	330	R	330	U	330	U	330	U	3300	U	330	U	330	U	330	U	330	U	330	U
1,3-dichlorobenzene	330	330	R	330	U	330	U	330	U	3300	U	330	U	330	U	330	U	330	U	330	U
1,4-dichlorobenzene	330	330	R	330	U	330	U	330	U	3300	U	330	U	330	U	330	U	330	U	330	U
Benzyl Alcohol	1000	1000	R	1000	U	1000	U	1000	U	10000	U	1000	U	1000	U	1000	U	1000	U	1000	U
1,2-dichlorobenzene	330	330	R	330	U	330	U	330	U	3300	U	330	U	330	U	330	U	330	U	330	U
2-methylphenol	330	330	R	330	U	330	U	330	U	3300	U	330	U	330	U	330	U	330	U	330	U
bis(2-chloroisopropyl)ether	330	330	R	330	U	330	U	330	U	3300	U	330	U	330	U	330	U	330	U	330	U
4-methylphenol	330	330	R	330	U	330	U	330	U	3300	U	330	U	330	U	330	U	330	U	330	U
N-nitroso-di-n-propylamine	330	330	R	330	U	330	U	330	U	3300	U	330	U	330	U	330	U	330	U	330	U
Hexachloroethane	330	330	R	330	U	330	U	330	U	3300	U	330	U	330	U	330	U	330	U	330	U
Nitrobenzene	330	330	R	330	U	330	U	330	U	3300	U	330	U	330	U	330	U	330	U	330	U
Isophorone	330	330	R	330	U	330	U	330	U	3300	U	330	U	330	U	330	U	330	U	330	U
2-nitrophenol	330	330	R	330	U	330	U	330	U	3300	U	330	U	330	U	330	U	330	U	330	U
2,4-dimethylphenol	330	330	R	330	U	330	U	330	U	3300	U	330	U	330	U	330	U	330	U	330	U
bis(2-chloroethoxy)methane	330	330	R	330	U	330	U	330	U	3300	U	330	U	330	U	330	U	330	U	330	U
Benzoic acid	1000	1000	R	1000	UJ	91	J	1000	UJ	10000	UJ	1000	UJ	1000	UJ	1000	UJ	1000	UJ	1000	UJ
2,4-dichlorophenol	330	330	R	330	U	330	U	330	U	3300	U	330	U	330	U	330	U	330	U	330	U
1,2,4-trichlorobenzene	330	330	R	330	U	330	U	330	U	3300	U	330	U	330	U	330	U	330	U	330	U
Naphthalene	330	330	R	24	J	330	J	330	U	3300	U	750		330	U	330	U	330	U	330	U
4-chloroaniline	330	330	R	330	U	330	U	330	U	3300	U	330	U	330	U	330	U	330	U	330	U
Hexachlorobutadiene	330	330	R	330	U	330	U	330	U	3300	U	330	U	330	U	330	U	330	U	330	U
4-chloro-3-methylphenol	330	330	R	330	U	330	U	330	U	3300	U	330	U	330	U	330	U	330	U	330	U
2-methylnaphthalene	330	330	R	330	U	330	U	330	U	3300	U	200	J	330	U	330	U	330	U	330	U
Hexachlorocyclopentadiene	330	330	R	330	U	330	U	330	U	3300	U	330	U	330	U	330	U	330	U	330	U
2,4,6-trichlorophenol	330	330	R	330	U	330	U	330	U	3300	U	330	U	330	U	330	U	330	U	330	U
2,4,5-trichlorophenol	800	800	R	800	UJ	800	UJ	800	UJ	8000	UJ	800	UJ	800	UJ	800	UJ	800	UJ	800	UJ
2-chloronaphthalene	330	330	R	330	U	330	U	330	U	3300	U	330	U	330	U	330	U	330	U	330	U
2-nitroaniline	800	800	R	800	UJ	800	UJ	800	UJ	8000	UJ	800	UJ	800	UJ	800	UJ	800	UJ	800	UJ
Dimethyl phthalate	330	330	R	330	U	330	U	330	U	3300	U	330	U	330	U	330	U	330	U	330	U

EB = Equipment Blank, FB = Field Blank, TB = Trip Blank

9613424.0955

Project: WESTINGHOUSE-HANFORD																					
Laboratory: DataChem																					
Case	SDG: B00ZQ4																				
Sample Number		B00ZQ4		B00ZR5		B00ZR7		B00ZR8		B00ZS2		B00ZS3		B00ZS4		B00ZS5		B00ZS7		B00ZS8	
Location		100-D		183-D-C4-		181-D-E4-		181-DR-		186-D-C4-		105-D-E4-		Pole C5204		100-D		100-D		100-D	
Remarks		TB		S3B		S1A		S1A		S12		S2				Duplicate		FB		EB	
Sample Date		09/11/91		09/11/91		09/11/91		09/11/91		09/11/91		09/11/91		09/11/91		09/11/91		09/11/91		09/11/91	
Extraction Date		09/17/91		09/17/91		09/17/91		09/17/91		09/17/91		09/17/91		09/17/91		09/17/91		09/17/91		09/17/91	
Analysis Date		09/30/91		10/03/91		10/03/91		10/03/91		10/03/91		10/05/91		10/01/91		10/03/91		10/01/91		09/30/91	
Semivolatile Compound	CRQL	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
2,6-dinitrotoluene	330	330	R	330	U	330	U	330	U	3300	U	330	U	330	U	330	U	330	U	330	U
Acenaphthylene	330	330	R	20	J	330	U	330	U	3300	U	30	J	330	U	330	U	330	U	330	U
3-nitroaniline	800	800	R	800	UJ	800	UJ	800	UJ	8000	UJ	800	UJ	800	UJ	800	UJ	800	UJ	800	UJ
Acenaphthene	330	330	R	330	U	330	U	330	U	3300	U	390		330	U	27	J	330	J	330	J
2,4-dinitrophenol	800	800	R	800	UJ	800	UJ	800	UJ	8000	UJ	800	UJ	800	UJ	800	UJ	800	UJ	800	UJ
4-nitrophenol	800	800	R	800	UJ	800	UJ	800	UJ	8000	UJ	800	UJ	800	UJ	800	UJ	800	UJ	800	UJ
Dibenzofuran	330	330	R	330	U	330	U	330	U	3300	U	280	J	330	U	330	U	330	U	330	U
2,4-dinitrotoluene	330	330	R	330	U	330	U	330	U	3300	U	330	U	330	U	330	U	330	U	330	U
Diethyl phthalate	330	330	R	170	J	330	U	330	U	3300	U	330	U	330	U	330	U	330	U	330	U
4-chlorophenol-phenylether	330	330	R	330	UJ	330	U	330	U	3300	U	330	U	330	UJ	330	U	330	UJ	330	U
Fluorene	330	330	R	330	U	330	U	330	U	3300	U	410		330	U	330	U	330	U	330	U
4-nitroaniline	800	800	R	800	UJ	800	UJ	800	UJ	8000	UJ	800	UJ	800	UJ	800	UJ	800	UJ	800	UJ
2-methyl-4,6-dinitrophenol	800	800	R	800	UJ	800	UJ	800	UJ	8000	UJ	800	UJ	800	UJ	800	UJ	800	UJ	800	UJ
N-nitroso-diphenylamine	330	330	R	330	U	330	U	330	U	3300	U	330	U	330	U	330	U	330	U	330	U
1,2-diphenolhydrazine	1000	1000	R	1000	U	1000	U	1000	U	10000	U	1000	U	1000	U	1000	U	1000	U	1000	U
4-bromophenyl-phenylether	330	330	R	330	U	330	U	330	U	3300	U	330	U	330	U	330	U	330	U	330	U
Hexachlorobenzene	330	330	R	330	U	330	U	330	U	3300	U	330	U	330	UJ	330	U	330	UJ	330	U
Pentachlorophenol	800	800	R	5100		800	UJ	800	UJ	8000	UJ	800	UJ	800	UJ	800	UJ	800	UJ	800	U
Phenanthrene	330	330	R	480		44	J	56	J	3300	U	3300		89	J	360		330	U	330	U
Anthracene	330	330	R	17	J	330	U	330	U	3300	U	320	J	83	U	35	J	330	U	330	U
Di-n-butyl phthalate	330	330	R	20	J	330	U	62	J	3300	U	90	J	330	U	330	U	120	J	330	U
Fluoranthene	330	330	R	470		330	U	74	J	3300	U	3200		190	J	1100		330	U	330	U
Pyrene	330	330	R	400		330	U	66	J	3300	U	2400		180	J	840		330	U	330	U
Butylbenzylphthalate	330	330	R	330	U	330	U	330	U	3300	U	1100		330	U	330	U	810		330	U
3,3'-dichlorobenzidine	1000	1000	R	1000	U	1000	U	1000	U	10000	U	1000	U	1000	U	1000	U	1000	U	1000	U
benzo(a)anthracene	330	330	R	81	J	29	J	330	U	3300	U	1500		330	U	95	J	330	U	330	U
bis(2-ethylhexyl)phthalate	330	330	R	330	U	330	U	330	U	3300	U	96	J	330	U	330	U	29	J	330	U
Chrysene	330	330	R	300	J	58	J	37	J	3300	U	1400	J	160	J	660		330	U	330	U
Di-n-octylphthalate	330	330	R	330	U	330	U	330	U	3300	U	330	U	330	U	330	U	330	U	330	U
Benzo(b)fluoranthene	330	330	R	160	J	34	J	330	U	3300	U	890		330	U	290	J	330	U	330	U
Benzo(k)fluoranthene	330	330	R	170	J	48	J	330	U	3300	U	840		330	U	320	J	330	U	330	U
Benzo(a)pyrene	330	330	R	86	J	330	U	330	U	3300	U	910		330	U	72	J	330	U	330	U

EB = Equipment Blank, FB = Field Blank, TB = Trip Blank

9613424.0956

SEMIVOLATILE ORGANIC ANALYSIS, SOIL MATRIX, (ug/Kg)

SV1

Project: WESTINGHOUSE-HANFORD																							
Laboratory: DataChem																							
Case	SDG: B00ZQ4																						
Sample Number		B00ZQ4		B00ZR5		B00ZR7		B00ZR8		B00ZS2		B00ZS3		B00ZS4		B00ZS5		B00ZS7		B00ZS8	
Location		100-D		183-D-C4-		181-D-E4-		181-DR-		186-D-C4-		105-D-E4-		Pole C5204		100-D		100-D		100-D	
Remarks		TB		S3B		S1A		S1A		S12		S2				Duplicate		FB		EB	
Sample Date		09/11/91		09/11/91		09/11/91		09/11/91		09/11/91		09/11/91		09/11/91		09/11/91		09/11/91		09/11/91	
Extraction Date		09/17/91		09/17/91		09/17/91		09/17/91		09/17/91		09/17/91		09/17/91		09/17/91		09/17/91		09/17/91	
Analysis Date		09/30/91		10/03/91		10/03/91		10/03/91		10/03/91		10/05/91		10/01/91		10/03/91		10/01/91		09/30/91	
Semivolatile Compound	CRQL	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
Indeno(1,2,3-cd)pyrene	330	330	R	330	U	330	U	330	U	3300	U	680		330	U	91	J	330	U	330	U
Dibenzo(a,h)anthracene	330	330	R	330	U	330	U	330	U	3300	U	240	J	330	U	330	U	330	U	330	U
Benzo(g,h,i)perylene	330	330	R	330	U	330	U	330	U	3300	U	700		330	U	92	J	330	U	330	U
2-picoline	1000	1000	R	1000	U	1000	U	1000	U	10000	U	1000	U	1000	U	1000	U	1000	U	1000	U
Ethyl methanesulfonate	1000	1000	R	1000	U	1000	U	1000	U	10000	U	1000	U	1000	U	1000	U	1000	U	1000	U
Methyl methanesulfonate	1000	1000	R	1000	U	1000	U	1000	U	10000	U	1000	U	1000	U	1000	U	1000	U	1000	U
Aniline	1000	1000	R	1000	U	1000	U	1000	U	10000	U	1000	U	1000	U	1000	U	1000	U	1000	U
Acetophenone	1000	1000	R	1000	U	1000	U	1000	U	10000	U	1000	U	1000	U	1000	U	1000	U	1000	U
N-nitroso-piperidine	1000	1000	R	1000	U	1000	U	1000	U	10000	U	1000	U	1000	U	1000	U	1000	U	1000	U
a,a-dimethylphenethylamine	1000	1000	R	1000	U	1000	U	1000	U	10000	U	1000	U	1000	U	1000	U	1000	U	1000	U
1,2,4,5-tetrachlorobenzene	1000	1000	R	1000	U	1000	U	1000	U	10000	U	1000	U	1000	U	1000	U	1000	U	1000	U
1-chloronaphthalene	1000	1000	R	1000	U	1000	U	1000	U	10000	U	1000	U	1000	U	1000	U	1000	U	1000	U
Pentachlorobenzene	1000	1000	R	1000	U	1000	U	1000	U	10000	U	1000	U	1000	U	1000	U	1000	U	1000	U
1-naphthylamine	1000	1000	R	1000	U	1000	U	1000	U	10000	U	1000	U	1000	U	1000	U	1000	U	1000	U
2,3,4,6-tetrachlorophenol	1000	1000	R	120	J	1000	U	1000	U	10000	U	1000	U	1000	U	1000	U	1000	U	1000	U
2-naphthylamine	1000	1000	R	1000	U	1000	U	1000	U	10000	U	1000	U	1000	U	1000	U	1000	U	1000	U
Phenacetin	1000	1000	R	1000	U	1000	U	1000	U	10000	U	1000	U	1000	U	1000	U	1000	U	1000	U
4-aminobiphenyl	1000	1000	R	1000	U	1000	U	1000	U	10000	U	1000	U	1000	U	1000	U	1000	U	1000	U
Pronamide (propyzamide)	1000	1000	R	1000	U	1000	U	1000	U	10000	U	1000	U	1000	U	1000	U	1000	U	1000	U
Pentachloronitrobenzene	1000	1000	R	1000	U	1000	U	1000	U	10000	U	1000	U	1000	U	1000	U	1000	U	1000	U
Benzidine	1000	1000	R	1000	U	1000	U	1000	U	10000	U	1000	U	1000	U	1000	U	1000	U	1000	U
P-dimethylaminoazobenzene	1000	1000	R	1000	U	1000	U	1000	U	10000	U	1000	U	1000	U	1000	U	1000	U	1000	U
7,12-dimethbenz(a)anthracene	1000	1000	R	1000	U	1000	U	1000	U	10000	U	1000	U	1000	U	1000	U	1000	U	1000	U
3-methylchloranthrene	1000	1000	R	1000	U	1000	U	1000	U	10000	U	1000	U	1000	U	1000	U	1000	U	1000	U

EB = Equipment Blank, FB = Field Blank, TB = Trip Blank

9613424.0957

SV2

SEMIVOLATILE ORGANIC ANALYSIS, SOIL MATRIX, (ug/Kg)

Project: WESTINGHOUSE-HANFORD																							
Laboratory: DataChem																							
Case	SDG: B00ZQ4																						
Sample Number		B00ZQ5		B00ZQ6		B00ZQ7		B00ZQ9		B00ZR0		B00ZR1		B00ZR2		B00ZR3		B00ZR4		B00ZS0	
Location		151-D-A-4		190-DR-		190-DR-		190-D-E4-		190-D-E4-		185-D-C4-		185-D-C4-		185-D-C4-		183-D-C4-		189-D-C4-	
Remarks				E4-S13		ER-S12		S9B		S9C		S11A		S11B		S11C		S3A		S10	
Sample Date		09/11/91		09/11/91		09/11/91		09/11/91		09/11/91		09/11/91		09/11/91		09/11/91		09/11/91		09/11/91	
Extraction Date		09/17/91		09/17/91		09/17/91		09/17/91		09/17/91		09/17/91		09/17/91		09/17/91		09/17/91		09/17/91	
Analysis Date		10/01/91		10/01/91		10/01/91		10/01/91		10/04/91		10/04/91		10/04/91		10/03/91		10/03/91		10/03/91	
Semivolatile Compound	CRQL	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
N-nitroso-dimethylamine	1000	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U
Phenol	330	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U
bis(2-chloroethyl)ether	330	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U
2-chlorophenol	330	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U
1,3-dichlorobenzene	330	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U
1,4-dichlorobenzene	330	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U
Benzyl Alcohol	1000	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U
1,2-dichlorobenzene	330	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U
2-methylphenol	330	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U
bis(2-chloroisopropyl)ether	330	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U
4-methylphenol	330	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U
N-nitroso-di-n-propylamine	330	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U
Hexachloroethane	330	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U
Nitrobenzene	330	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U
Isophorone	330	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U
2-nitrophenol	330	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U
2,4-dimethylphenol	330	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U
bis(2-chloroethoxy)methane	330	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U
Benzoic acid	1000	10000	UJ	10000	UJ	10000	UJ	10000	UJ	10000	UJ	10000	UJ	10000	UJ	10000	UJ	10000	UJ	10000	UJ
2,4-dichlorophenol	330	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U
1,2,4-trichlorobenzene	330	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U
Naphthalene	330	3300	U	220	J	1400	J	6700		2200	J	690	J	3300	U	3300	U	3300	U	370	J
4-chloroaniline	330	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U
Hexachlorobutadiene	330	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U
4-chloro-3-methylphenol	330	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U
2-methylnaphthalene	330	3300	U	3300	U	3300	U	1800	J	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U
Hexachlorocyclopentadiene	330	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U
2,4,6-trichlorophenol	330	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U
2,4,5-trichlorophenol	800	8000	UJ	8000	UJ	8000	UJ	8000	UJ	8000	UJ	8000	UJ	8000	UJ	8000	UJ	8000	UJ	8000	UJ
2-chloronaphthalene	330	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U
2-nitroaniline	800	8000	UJ	8000	UJ	8000	UJ	8000	UJ	8000	UJ	8000	UJ	8000	UJ	8000	UJ	8000	UJ	8000	UJ
Dimethyl phthalate	330	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U

9613428.0958

SV2

SEMIVOLATILE ORGANIC ANALYSIS, SOIL MATRIX, (ug/Kg)

Project: WESTINGHOUSE-HANFORD																							
Laboratory: DataChem																							
Case	SDG: B00ZQ4																						
Sample Number		B00ZQ5		B00ZQ6		B00ZQ7		B00ZQ9		B00ZR0		B00ZR1		B00ZR2		B00ZR3		B00ZR4		B00ZS0	
Location		151-D-A-4		190-DR-		190-DR-		190-D-E4-		190-D-E4-		185-D-C4-		185-D-C4-		185-D-C4-		183-D-C4-		189-D-C4-	
Remarks				E4-S13		ER-S12		S9B		S9C		S11A		S11B		S11C		S3A		S10	
Sample Date		09/11/91		09/11/91		09/11/91		09/11/91		09/11/91		09/11/91		09/11/91		09/11/91		09/11/91		09/11/91	
Extraction Date		09/17/91		09/17/91		09/17/91		09/17/91		09/17/91		09/17/91		09/17/91		09/17/91		09/17/91		09/17/91	
Analysis Date		10/01/91		10/01/91		10/01/91		10/01/91		10/04/91		10/04/91		10/04/91		10/03/91		10/03/91		10/03/91	
Semivolatile Compound	CRQL	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
2,6-dinitrotoluene	3300	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U
Acenaphthylene	330	3300	U	3300	U	3300	U	280	J	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U
3-nitroaniline	800	8000	UJ	8000	UJ	8000	UJ	8000	UJ	8000	UJ	8000	UJ	8000	UJ	8000	UJ	8000	UJ	8000	UJ
Acenaphthene	330	3300	U	270	J	1600	J	5900		2900	J	3300	U	3300	U	3300	U	3300	U	3300	U
2,4-dinitrophenol	800	8000	UJ	8000	UJ	8000	UJ	8000	UJ	8000	UJ	8000	UJ	8000	UJ	8000	UJ	8000	UJ	8000	UJ
4-nitrophenol	800	8000	UJ	8000	UJ	8000	UJ	8000	UJ	8000	UJ	8000	UJ	8000	UJ	8000	UJ	8000	UJ	8000	UJ
Dibenzofuran	330	3300	U	3300	U	970	J	4100		1800	J	3300	U	3300	U	3300	U	3300	U	3300	U
2,4-dinitrotoluene	330	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U
Diethyl phthalate	330	3300	U	3300	U	3300	U	3300	U	3300	U	11000	U	3300	U	3300	U	3300	U	3300	U
4-chlorophenol-phenylether	330	3300	UJ	3300	UJ	3300	UJ	3300	UJ	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U
Fluorene	330	3300	U	3300	U	1700	J	6400		2300	J	3300	UJ	3300	UJ	3300	U	3300	U	3300	U
4-nitroaniline	800	8000	UJ	8000	UJ	8000	UJ	8000	UJ	8000	UJ	8000	UJ	8000	UJ	8000	UJ	8000	UJ	8000	UJ
2-methyl-4,6-dinitrophenol	800	8000	UJ	8000	UJ	8000	UJ	8000	UJ	8000	UJ	8000	UJ	8000	UJ	8000	UJ	8000	UJ	8000	UJ
N-nitroso-diphenylamine	330	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U
1,2-diphenolhydrazine	1000	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U
4-bromophenyl-phenylether	330	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U
Hexachlorobenzene	330	3300	UJ	3300	UJ	3300	UJ	3300	UJ	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U
Pentachlorophenol	800	8000	UJ	8000	UJ	8000	UJ	8000	UJ	8000	UJ	8000	UJ	8000	UJ	8000	UJ	4000	J	8000	UJ
Phenanthrene	330	3300	U	4300		18000		51000		31000		2100	J	1700	J	1300	J	1000	J	960	J
Anthracene	330	3300	U	490	J	2500	J	8700		4100		400	J	3300	U	3300	U	3300	U	160	J
Di-n-butyl phthalate	330	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U
Fluoranthene	330	610	J	6600		24000		55000		32000		2100	J	1300	J	1300	J	900	J	910	J
Pyrene	330	460	J	5300		18000		47000		29000		1800	J	1000	J	1000	J	710	J	1000	J
Butylbenzylphthalate	330	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U
3,3'-dichlorobenzidine	1000	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U
benzo(a)anthracene	330	360	J	2200	J	7800		23000		12000		830	J	3300	U	310	J	3300	U	490	J
bis(2-ethylhexyl)phthalate	330	3300	U	3300	U	3300	U	3300	U	3300	U	380	J	480	J	280	J	3300	U	3300	U
Chrysene	330	650	J	3500		11000		27000		16000		1900	J	720	J	860	J	1200	J	660	J
Di-n-octylphthalate	330	3300	U	3300		3300	U	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U	3300	U
Benzo(b)fluoranthene	330	3300	U	2100	J	5800		19000		11000		640	J	310	J	310	J	3300	U	340	J
Benzo(k)fluoranthene	330	3300	U	2600	J	7900		18000		10000		880	J	510	J	400	J	3300	U	500	J
Benzo(a)pyrene	330	3300	U	2200	J	6300		19000		10000		770	J	3300	U	300	J	3300	U	490	J

9613424.0959

SEMIVOLATILE ORGANIC ANALYSIS, SOIL MATRIX, (ug/Kg)

SV2

Project: WESTINGHOUSE-HANFORD																					
Laboratory: DataChem																					
Case	SDG: B00ZQ4																				
Sample Number		B00ZQ5		B00ZQ6		B00ZQ7		B00ZQ9		B00ZR0		B00ZR1		B00ZR2		B00ZR3		B00ZR4		B00ZS0	
Location		151-D-A-4		190-DR-		190-DR-		190-D-E4-		190-D-E4-		185-D-C4-		185-D-C4-		185-D-C4-		183-D-C4-		189-D-C4-	
Remarks				E4-S13		ER-S12		S9B		S9C		S11A		S11B		S11C		S3A		S10	
Sample Date		09/11/91		09/11/91		09/11/91		09/11/91		09/11/91		09/11/91		09/11/91		09/11/91		09/11/91		09/11/91	
Extraction Date		09/17/91		09/17/91		09/17/91		09/17/91		09/17/91		09/17/91		09/17/91		09/17/91		09/17/91		09/17/91	
Analysis Date		10/01/91		10/01/91		10/01/91		10/01/91		10/04/91		10/04/91		10/04/91		10/03/91		10/03/91		10/03/91	
Semivolatile Compound	CRQL	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
Indeno(1,2,3-cd)pyrene	330	3300	U	1600	J	5300		14000		7500		3300	U	3300	U	3300	U	3300	U	3300	U
Dibenzo(a,h)anthracene	330	3300	U	3300	U	3300	U	4800		2600	J	3300	U	3300	U	3300	U	3300	U	3300	U
Benzo(g,h,i)perylene	330	3300	U	3300	U	6100		17000		9100		3300	U	3300	U	3300	U	3300	U	3300	U
2-picoline	1000	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U
Ethyl methanesulfonate	1000	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U
Methyl methanesulfonate	1000	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U
Aniline	1000	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U
Acetophenone	1000	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U
N-nitroso-piperidine	1000	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U
a,a-dimethylphenethylamine	1000	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U
1,2,4,5-tetrachlorobenzene	1000	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U
1-chloronaphthalene	1000	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U
Pentachlorobenzene	1000	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U
1-naphthylamine	1000	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U
2,3,4,6-tetrachlorophenol	1000	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U
2-naphthylamine	1000	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U
Phenacetin	1000	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U
4-aminobiphenyl	1000	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U
Pronamide (propyzamide)	1000	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U
Pentachloronitrobenzene	1000	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U
Benzidine	1000	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U
P-dimethylaminoazobenzene	1000	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U
7,12-dimethbenz(a)anthracene	1000	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U
3-methylchloranthrene	1000	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U

9613424.0960

SV3

SEMIVOLATILE ORGANIC ANALYSIS, SOIL MATRIX, (ug/Kg)

add in ~~at~~ proper place

Project: WESTINGHOUSE-HANFORD																					
Laboratory: DataChem																					
Case	SDG: B00ZQ4																				
Sample Number		B00ZQ8		B00ZR6		B00ZR9		B00ZS1		~~B00Z56~~											
Location		190-D-E4-		105-DR-		190-D-C4-		186-D-C4-		~~100-D~~											
Remarks		S9A		E4-S11		S13		S12A													
Sample Date		09/11/91		09/11/91		09/11/91		09/11/91		~~9/11/91~~											
Extraction Date		09/17/91		09/17/91		09/17/91		09/17/91		~~9/17/91~~											
Analysis Date		10/03/91		10/15/91		10/03/91		10/03/91		~~10/3/91~~											
Semivolatile Compound	CRQL	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
N-nitroso-dimethylamine	1000	20000	U	100000	R	50000	U	20000	U												
Phenol	330	6600	U	33000	R	16500	U	6600	U												
bis(2-chloroethyl)ether	330	6600	U	33000	R	16500	U	6600	U												
2-chlorophenol	330	6600	U	33000	R	16500	U	6600	U												
1,3-dichlorobenzene	330	6600	U	33000	R	16500	U	6600	U												
1,4-dichlorobenzene	330	6600	U	33000	R	16500	U	6600	U												
Benzyl Alcohol	1000	20000	U	100000	R	50000	U	20000	U												
1,2-dichlorobenzene	330	6600	U	33000	R	16500	U	6600	U												
2-methylphenol	330	6600	U	33000	R	16500	U	6600	U												
bis(2-chloroisopropyl)ether	330	6600	U	33000	R	16500	U	6600	U												
4-methylphenol	330	6600	U	33000	R	16500	U	6600	U												
N-nitroso-di-n-propylamine	330	6600	U	33000	R	16500	U	6600	U												
Hexachloroethane	330	6600	U	33000	R	16500	U	6600	U												
Nitrobenzene	330	6600	U	33000	R	16500	U	6600	U												
Isophorone	330	6600	U	33000	R	16500	U	6600	U												
2-nitrophenol	330	6600	U	33000	R	16500	U	6600	U												
2,4-dimethylphenol	330	6600	U	33000	R	16500	U	6600	U												
bis(2-chloroethoxy)methane	330	6600	U	33000	R	16500	U	6600	U												
Benzoic acid	1000	20000	UJ	100000	R	50000	UJ	20000	UJ												
2,4-dichlorophenol	330	6600	U	33000	R	16500	U	6600	U												
1,2,4-trichlorobenzene	330	6600	U	33000	R	16500	U	6600	U												
Naphthalene	330	1200	J	33000	R	16500	U	6600	U												
4-chloroaniline	330	6600	U	33000	R	16500	U	6600	U												
Hexachlorobutadiene	330	6600	U	33000	R	16500	U	6600	U												
4-chloro-3-methylphenol	330	6600	U	33000	R	16500	U	6600	U												
2-methylnaphthalene	330	6600	U	33000	R	16500	U	6600	U												
Hexachlorocyclopentadiene	330	6600	U	33000	R	16500	U	6600	U												
2,4,6-trichlorophenol	330	6600	U	33000	R	16500	U	6600	U												
2,4,5-trichlorophenol	800	1600	UJ	80000	R	40000	UJ	1600	UJ												
2-chloronaphthalene	330	6600	U	33000	R	16500	U	6600	U												
2-nitroaniline	800	1600	UJ	80000	R	40000	UJ	1600	UJ												
Dimethyl phthalate	330	6600	U	33000	R	16500	U	6600	U												

9613424.0961

SEMIVOLATILE ORGANIC ANALYSIS, SOIL MATRIX, (ug/Kg)

SV3

Project: WESTINGHOUSE-HANFORD																					
Laboratory: DataChem																					
Case	SDG: B00ZQ4																				
Sample Number		B00ZQ8		B00ZR6		B00ZR9		B00ZS1													
Location		190-D-E4-		105-DR-		190-D-C4-		186-D-C4-													
Remarks		S9A		E4-S11		S13		S12A													
Sample Date		09/11/91		09/11/91		09/11/91		09/11/91													
Extraction Date		09/17/91		09/17/91		09/17/91		09/17/91													
Analysis Date		10/03/91		10/15/91		10/03/91		10/03/91													
Semivolatile Compound	CRQL	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
2,6-dinitrotoluene	330	6600	U	33000	R	16500	U	6600	U												
Acenaphthylene	330	6600	U	33000	R	16500	U	6600	U												
3-nitroaniline	800	1600	UJ	80000	R	40000	UJ	1600	UJ												
Acenaphthene	330	990	J	33000	R	16500	J	6600	U												
2,4-dinitrophenol	800	1600	UJ	80000	R	40000	UJ	1600	UJ												
4-nitrophenol	800	1600	UJ	80000	R	40000	UJ	1600	UJ												
Dibenzofuran	330	6600	U	33000	R	16500	U	6600	U												
2,4-dinitrotoluene	330	6600	U	33000	R	16500	U	6600	U												
Diethyl phthalate	330	6600	U	33000	R	16500	U	6600	U												
4-chlorophenol-phenylether	330	6600	U	33000	R	16500	U	6600	U												
Fluorene	330	1200	J	33000	R	16500	U	6600	U												
4-nitroaniline	800	16000	UJ	80000	R	40000	UJ	16000	UJ												
2-methyl-4,6-dinitrophenol	800	16000	UJ	80000	R	40000	UJ	16000	UJ												
N-nitroso-diphenylamine	330	6600	U	33000	R	16500	U	6600	U												
1,2-diphenolhydrazine	1000	20000	U	100000	R	50000	U	20000	U												
4-bromophenyl-phenylether	330	6600	U	33000	R	16500	U	6600	U												
Hexachlorobenzene	330	6600	U	33000	R	16500	U	6600	U												
Pentachlorophenol	800	1600	UJ	80000	R	40000	UJ	1600	UJ												
Phenanthrene	330	7800		33000	R	16500	U	6600	U												
Anthracene	330	740	J	33000	R	16500	U	6600	U												
Di-n-butyl phthalate	330	6600	U	33000	R	16500	U	6600	U												
Fluoranthene	330	8700		33000	R	16500	U	6600	U												
Pyrene	330	7000		33000	R	16500	U	6600	U												
Butylbenzylphthalate	330	6600	U	33000	R	16500	U	6600	U												
3,3'-dichlorobenzidine	1000	20000	U	100000	R	50000	U	20000	U												
benzo(a)anthracene	330	4100	J	33000	R	16500	U	6600	U												
bis(2-ethylhexyl)phthalate	330	6600	U	33000	R	16500	U	6600	U												
Chrysene	330	3900	J	33000	R	16500	U	6600	U												
Di-n-octylphthalate	330	6600	U	33000	R	16500	U	6600	U												
Benzo(b)fluoranthene	330	3500	J	33000	R	16500	U	6600	U												
Benzo(k)fluoranthene	330	3500	J	33000	R	16500	U	6600	U												
Benzo(a)pyrene	330	2400	J	33000	R	16500	U	6600	U												
~~Project: WESTINGHOUSE-HANFORD~~																					

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5U3

Laboratory: DataChem																					
Case	SDG: B00ZQ4																				
Sample Number		B00ZQ8		B00ZR6		B00ZR9		B00ZS1													
Location		190-D-E4-		105-DR-		190-D-C4-		186-D-C4-													
Remarks		S9A		E4-S11		S13		S12A													
Sample Date		09/11/91		09/11/91		09/11/91		09/11/91													
Extraction Date		09/17/91		09/17/91		09/17/91		09/17/91													
Analysis Date		10/03/91		10/15/91		10/03/91		10/03/91													
Semivolatile Compound	CRQL	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
Indeno(1,2,3-cd)pyrene	330	6600	U	33000	R	16500	U	6600	U												
Dibenzo(a,h)anthracene	330	6600	U	33000	R	16500	U	6600	U												
Benzo(g,h,i)perylene	330	6600	U	33000	R	16500	U	6600	U												
2-picoline	1000	20000	U	100000	R	50000	U	20000	U												
Ethyl methanesulfonate	1000	20000	U	100000	R	50000	U	20000	U												
Methyl methanesulfonate	1000	20000	U	100000	R	50000	U	20000	U												
Aniline	1000	20000	U	100000	R	50000	U	20000	U												
Acetophenone	1000	20000	U	100000	R	50000	U	20000	U												
N-nitroso-piperidine	1000	20000	U	100000	R	50000	U	20000	U												
a,a-dimethylphenethylamine	1000	20000	U	100000	R	50000	U	20000	U												
1,2,4,5-tetrachlorobenzene	1000	20000	U	100000	R	50000	U	20000	U												
1-chloronaphthalene	1000	20000	U	100000	R	50000	U	20000	U												
Pentachlorobenzene	1000	20000	U	100000	R	50000	U	20000	U												
1-naphthylamine	1000	20000	U	100000	R	50000	U	20000	U												
2,3,4,6-tetrachlorophenol	1000	20000	U	100000	R	50000	U	20000	U												
2-naphthylamine	1000	20000	U	100000	R	50000	U	20000	U												
Phenacetin	1000	20000	U	100000	R	50000	U	20000	U												
4-aminobiphenyl	1000	20000	U	100000	R	50000	U	20000	U												
Pronamide (propyzamide)	1000	20000	U	100000	R	50000	U	20000	U												
Pentachloronitrobenzene	1000	20000	U	100000	R	50000	U	20000	U												
Benzidine	1000	20000	U	100000	R	50000	U	20000	U												
P-dimethylaminoazobenzene	1000	20000	U	100000	R	50000	U	20000	U												
7,12-dimethbenz(a)anthracene	1000	20000	U	100000	R	50000	U	20000	U												
3-methylchloranthrene	1000	20000	U	100000	R	50000	U	20000	U												

9613424.0963

PESTICIDE/PCB ORGANIC ANALYSIS, SOIL MATRIX, (ug/Kg)

Project: WESTINGHOUSE-HANFORD																					
Laboratory: DataChem																					
Case	SDG: B00ZQ4																				
Sample Number		B00ZQ4		B00ZQ5		B00ZQ6		B00ZQ7		B00ZQ8		B00ZQ9		B00ZR0		B00ZR1		B00ZR2		B00ZR3	
Location		100-D		151-D-A-4		190-DR-		190-DR-		190-D-E4-		190-D-E4-		190-D-E4-		185-D-C4-		185-D-C4-		185-D-C4-	
Remarks		TB				E4-S13		E4-S12		S9A		S9B		S9C		S11A		S11B		S11C	
Sample Date		9/11/91		9/11/91		9/11/91		9/11/91		9/11/91		9/11/91		9/11/91		9/11/91		9/11/91		9/11/91	
Extraction Date		9/17/91		9/17/91		9/17/91		9/17/91		9/17/91		9/17/91		9/17/91		9/17/91		9/17/91		9/17/91	
Analysis Date		9/30/91		10/1/91		10/1/91		10/1/91		10/1/91		10/1/91		10/1/91		10/1/91		10/1/91		10/1/91	
Pesticide/PCB	CRQL	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
alpha-BHC	1000	1000	R	1000	U	1000	U	1000	U	1000	U	1000	U	1000	U	1000	U	1000	U	1000	U
beta-BHC	5000	5000	R	5000	U	5000	U	5000	U	5000	U	5000	U	5000	U	5000	U	5000	U	5000	U
delta-BHC	5000	5000	R	5000	U	5000	U	5000	U	5000	U	5000	U	5000	U	5000	U	5000	U	5000	U
gamma-BHC (Lindane)	1000	1000	R	1000	U	1000	U	1000	U	1000	U	1000	U	1000	U	1000	U	1000	U	1000	U
Heptachlor	5000	5000	R	5000	U	5000	U	5000	U	5000	U	5000	U	5000	U	5000	U	5000	U	5000	U
Aldrin	5000	5000	R	5000	U	5000	U	5000	U	5000	U	5000	U	5000	U	5000	U	5000	U	5000	U
Heptachlor epoxide	5000	5000	R	5000	U	5000	U	5000	U	5000	U	5000	U	5000	U	5000	U	5000	U	5000	U
Endosulfan I	5000	5000	R	5000	U	5000	U	5000	U	5000	U	5000	U	5000	U	5000	U	5000	U	5000	U
4,4'-DDE	5000	5000	R	5000	U	5000	U	5000	U	5000	U	5000	U	5000	U	5000	U	5000	U	5000	U
Dieldrin	5000	5000	R	5000	U	5000	U	5000	U	5000	U	5000	U	5000	U	5000	U	5000	U	5000	U
Endrin aldehyde	5000	5000	R	5000	U	5000	U	5000	U	5000	U	5000	U	5000	U	5000	U	5000	U	5000	U
Endrin	5000	5000	R	5000	U	5000	U	5000	U	5000	U	5000	U	5000	U	5000	U	5000	U	5000	U
4,4'-DDD	5000	5000	R	5000	U	5000	U	5000	U	5000	U	5000	U	5000	U	5000	U	5000	U	5000	U
Endosulfan II	5000	5000	R	5000	U	5000	U	5000	U	5000	U	5000	U	5000	U	5000	U	5000	U	5000	U
4,4'-DDT	5000	5000	R	5000	U	5000	U	5000	U	5000	U	5000	U	5000	U	5000	U	5000	U	5000	U
Endosulfan sulfate	5000	5000	R	5000	U	5000	U	5000	U	5000	U	5000	U	5000	U	5000	U	5000	U	5000	U
p,p'-methoxychlor	1000	1000	R	1000	U	1000	U	1000	U	1000	U	1000	U	1000	U	1000	U	1000	U	1000	U
Endrin ketone	1000	1000	R	1000	U	1000	U	1000	U	1000	U	1000	U	1000	U	1000	U	1000	U	1000	U
Chlordane	10000	10000	R	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U
Toxaphene	10000	10000	R	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U
Arochlor-1016	10000	10000	R	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U
Arochlor-1221	10000	10000	R	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U
Arochlor-1232	10000	10000	R	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U
Arochlor-1242	10000	10000	R	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U
Arochlor-1248	10000	10000	R	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U
Arochlor-1254	10000	10000	R	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U	10000	U
Arochlor-1260	10000	10000	R	10000	R	10000	R	10000	R	10000	R	10000	R	10000	R	10000	R	10000	R	10000	R

TB = Trip Blank / DUPL = Duplicate / EB = Equipment Blank / FB = Field Blank

9613424.0964

PESTICIDE/PCB ORGANIC ANALYSIS, SOIL MATRIX, (ug/Kg)

Project: WESTINGHOUSE-HANFORD																					
Laboratory: DataChem																					
Case	SDG: B00ZQ4																				
Sample Number		B00ZR4		B00ZR5		B00ZR6		B00ZR7		B00ZR8		B00ZR9		B00ZS0		B00ZS1		B00ZS2		B00ZS3	
Location		183-D-C4-		183-D-C4-		105-DR-E4		181-D-E4		181-DR-		190-D-C4-		189-D-C4-		186-D-C4		186-D-C4		105-D-E4-	
Remarks		S3A		S3B		S11		S1A		S1A		S13		S10		S12A		S12		S2	
Sample Date		9/11/91		9/11/91		9/11/91		9/11/91		9/11/91		9/11/91		9/11/91		9/11/91		9/11/91		9/11/91	
Extraction Date		9/17/91		9/17/91		9/17/91		9/17/91		9/17/91		9/17/91		9/17/91		9/17/91		9/17/91		9/17/91	
Analysis Date		10/3/91		10/3/91		10/3/91		10/3/91		10/3/91		10/3/91		10/3/91		10/3/91		10/3/91		10/3/91	
Pesticide/PCB	CRQL	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
alpha-BHC	1000	1000	U	1000	U	1000	R	1000	U	1000	U	1000	R	1000	U	1000	U	1000	U	1000	U
beta-BHC	5000	5000	U	5000	U	5000	R	5000	U	5000	U	5000	R	5000	U	5000	U	5000	U	5000	U
delta-BHC	5000	5000	U	5000	U	5000	R	5000	U	5000	U	5000	R	5000	U	5000	U	5000	U	5000	U
gamma-BHC (Lindane)	1000	1000	U	1000	U	1000	R	1000	U	1000	U	1000	R	1000	U	1000	U	1000	U	1000	U
Heptachlor	5000	5000	U	5000	U	5000	R	5000	U	5000	U	5000	R	5000	U	5000	U	5000	U	5000	U
Aldrin	5000	5000	U	5000	U	5000	R	5000	U	5000	U	5000	R	5000	U	5000	U	5000	U	5000	U
Heptachlor epoxide	5000	5000	U	5000	U	5000	R	5000	U	5000	U	5000	R	5000	U	5000	U	5000	U	5000	U
Endosulfan I	5000	5000	U	5000	U	5000	R	5000	U	5000	U	5000	R	5000	U	5000	U	5000	U	5000	U
4,4'-DDE	5000	5000	U	5000	U	5000	R	5000	U	5000	U	5000	R	5000	U	5000	U	5000	U	5000	U
Dieldrin	5000	5000	U	5000	U	5000	R	5000	U	5000	U	5000	R	5000	U	5000	U	5000	U	5000	U
Endrin aldehyde	5000	5000	U	5000	U	5000	R	5000	U	5000	U	5000	R	5000	U	5000	U	5000	U	5000	U
Endrin	5000	5000	U	5000	U	5000	R	5000	U	5000	U	5000	R	5000	U	5000	U	5000	U	5000	U
4,4'-DDD	5000	5000	U	5000	U	5000	R	5000	U	5000	U	5000	R	5000	U	5000	U	5000	U	5000	U
Endosulfan II	5000	5000	U	5000	U	5000	R	5000	U	5000	U	5000	R	5000	U	5000	U	5000	U	5000	U
4,4'-DDT	5000	5000	U	5000	U	5000	R	5000	U	5000	U	5000	R	5000	U	5000	U	5000	U	5000	U
Endosulfan sulfate	5000	5000	U	5000	U	5000	R	5000	U	5000	U	5000	R	5000	U	5000	U	5000	U	5000	U
p,p'-methoxychlor	1000	1000	U	1000	U	1000	R	1000	U	1000	U	1000	R	1000	U	1000	U	1000	U	1000	U
Endrin ketone	1000	1000	U	1000	U	1000	R	1000	U	1000	U	1000	R	1000	U	1000	U	1000	U	1000	U
Chlordane	10000	10000	U	10000	U	10000	R	10000	U	10000	U	10000	R	10000	U	10000	U	10000	U	10000	U
Toxaphene	10000	10000	U	10000	U	10000	R	10000	U	10000	U	10000	R	10000	U	10000	U	10000	U	10000	U
Arochlor-1016	10000	10000	U	10000	U	10000	R	10000	U	10000	U	10000	R	10000	U	10000	U	10000	U	10000	U
Arochlor-1221	10000	10000	U	10000	U	10000	R	10000	U	10000	U	10000	R	10000	U	10000	U	10000	U	10000	U
Arochlor-1232	10000	10000	U	10000	U	10000	R	10000	U	10000	U	10000	R	10000	U	10000	U	10000	U	10000	U
Arochlor-1242	10000	10000	U	10000	U	10000	R	10000	U	10000	U	10000	R	10000	U	10000	U	10000	U	10000	U
Arochlor-1248	10000	10000	U	10000	U	10000	R	10000	U	10000	U	10000	R	10000	U	10000	U	10000	U	10000	U
Arochlor-1254	10000	10000	U	10000	U	10000	R	10000	U	10000	U	10000	R	10000	U	10000	U	10000	U	10000	U
Arochlor-1260	10000	10000	U	10000	R	10000	R	10000	U	10000	R	10000	R	10000	R	10000	R	10000	R	10000	R

TB = Trip Blank / DUPL = Duplicate / EB = Equipment Blank / FB = Field Blank

9613424.0965

PESTICIDE/PCB ORGANIC ANALYSIS, SOIL MATRIX, (ug/Kg)

Project: WESTINGHOUSE-HANFORD																					
Laboratory: DataChem																					
Case	SDG: B00ZQ4																				
Sample Number		B00ZS4		B00ZS5		B00ZS7		B00ZS8													
Location		POLE		100-D		100-D		100-D													
Remarks		C5204L		DUPL		FB		EB													
Sample Date		9/11/91		9/11/91		9/11/91		9/11/91													
Extraction Date		9/17/91		9/17/91		9/17/91		9/17/91													
Analysis Date		10/3/91		10/3/91		10/3/91		10/3/91													
Pesticide/PCB	CRQL	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
alpha-BHC	1000	1000	U	1000	U	1000	U	1000	U												
beta-BHC	5000	5000	U	5000	U	5000	U	5000	U												
delta-BHC	5000	5000	U	5000	U	5000	U	5000	U												
gamma-BHC (Lindane)	1000	1000	U	1000	U	1000	U	1000	U												
Heptachlor	5000	5000	U	5000	U	5000	U	5000	U												
Aldrin	5000	5000	U	5000	U	5000	U	5000	U												
Heptachlor epoxide	5000	5000	U	5000	U	5000	U	5000	U												
Endosulfan I	5000	5000	U	5000	U	5000	U	5000	U												
4,4'-DDE	5000	5000	U	5000	U	5000	U	5000	U												
Dieldrin	5000	5000	U	5000	U	5000	U	5000	U												
Endrin aldehyde	5000	5000	U	5000	U	5000	U	5000	U												
Endrin	5000	5000	U	5000	U	5000	U	5000	U												
4,4'-DDD	5000	5000	U	5000	U	5000	U	5000	U												
Endosulfan II	5000	5000	U	5000	U	5000	U	5000	U												
4,4'-DDT	5000	5000	U	5000	U	5000	U	5000	U												
Endosulfan sulfate	5000	5000	U	5000	U	5000	U	5000	U												
p,p'-methoxychlor	1000	1000	U	1000	U	1000	U	1000	U												
Endrin ketone	1000	1000	U	1000	U	1000	U	1000	U												
Chlordane	10000	10000	U	10000	U	10000	U	10000	U												
Toxaphene	10000	10000	U	10000	U	10000	U	10000	U												
Arochlor-1016	10000	10000	U	10000	U	10000	U	10000	U												
Arochlor-1221	10000	10000	U	10000	U	10000	U	10000	U												
Arochlor-1232	10000	10000	U	10000	U	10000	U	10000	U												
Arochlor-1242	10000	10000	U	10000	U	10000	U	10000	U												
Arochlor-1248	10000	10000	U	10000	U	10000	U	10000	U												
Arochlor-1254	10000	10000	U	10000	U	10000	U	10000	U												
Arochlor-1260	10000	10000	U	10000	R	10000	R	10000	U												

TB = Trip Blank / DUPL = Duplicate / EB = Equipment Blank / FB = Field Blank

9613424.0966

DATA QUALIFICATION SUMMARY - FORM B-7

SDG: B00ZQ4	REVIEWER: RB	DATE: 3/25/93	PAGE___OF___
COMMENTS:			
COMPOUND	QUALIFIER	SAMPLES AFFECTED	REASON
Aroclor 1260	R	B00ZQ5, B00ZQ6, B00ZQ7 B00ZQ8, B00ZQ9, B00ZR0,	Improper confirmation analysis
		B00ZR1, B00ZR2, B00ZR3 B00ZR5, ~~B00ZR6~~, ~~B00ZR7~~	
		B00ZR8, B00ZS0, B00ZS1,	
		~~B00ZS2~~, ~~B00ZS3~~, ~~B00ZS5~~ B00ZS7.	

DATA QUALIFICATION SUMMARY - FORM B-7

SDG: B00ZQ4	REVIEWER: MB	DATE: 3/18/93	PAGE___OF___
COMMENTS:			
COMPOUND	QUALIFIER	SAMPLES AFFECTED	REASON
~~All~~	~~J~~	~~All~~	~~Missing blank data~~
Benzoic acid			RRF ~~below 0.05~~ below 0.05
2,4,5 trichlorophenol			
2-Nitroaniline			
3-Nitroaniline			
2,4-Dinitrophenol			
4-Nitrophenol			
4-Nitroaniline			
4,6-Dinitro-2-methylphenol			
Pentachlorophenol			
~~All~~	~~R~~	~~All~~	~~No internal standards summary~~
Benzoic acid	J	B00ZQ6, B00ZQ5, B00ZQ7, B00ZQ9, B00ZS7, B00ZS4	Calibration RSD out
2,4 Dinitrophenol			
4-Chlorophenyl phenylether			
4,6-Dinitro-2-methylphenol			
hexachlorobenzene			
Fluorene		B00ZR1, B00ZR2, B00ZR0	RRF below 0.05
4,6-Dinitro-2-methylphenol			
4-chlorophenyl phenyl ether		B00ZQ6, B00ZQ5, B00ZQ7, B00ZQ9, B00ZS7, B00ZS4	RRF below 0.05
4,6-dinitro-2-methyl phenol			Calibration %D out
hexachlorobenzene			RRF below 0.05
All	R	B00ZQ4, B00ZR6, B00ZR9	Inconsistent instrument log information

6 areas
6 RT's

Window = 1/2 area - 2 area
RT = ±1/2 minute
∀ CC's

CALIBRATION DATA SUMMARY - FORM B-2

SDG: B00ZQ4	REVIEWER: RB	DATE: 3-18-93	PAGE___OF___		
COMMENTS:					
CALIB. TYPE:	INITIAL CONTINUING	INSTRUMENT: MS-3			
CALIB. DATE	COMPOUND	RF	RSD/%D/%R	SAMPLES AFFECTED	QUALIFIER
10/3/91	Benzoic Acid	0	10.4	all	J
	2,4,5 Trichlorophenol		4.9		
	2-Nitroaniline		6.9		
	3-Nitroaniline		8.0		
	2,4-Dinitrophenol		9.0		
	4-Nitrophenol		11.4		
	4-Nitroaniline		11.8		
	4,6-Dinitro-2-methylphenol		6.3		
	Pentachlorophenol		7.4		
	Benzoic Acid		36.4		
	2,4 Dinitrophenol		62.9	B00ZQ6, B00ZQ5, B00ZQ7, B00ZQ9, B00ZS7, B00ZS4	J
	4-Chlorophenyl-phenylether		99.9		
	4,6-Dinitro-2-methylphenol		49.9		
	hexachlorobenzene		99.9		
10/4/91	Fluorene	0	99.9	B00ZR1, B00ZR2, B00ZR0	J
	4,6m Dinitro-2-methylphenol	0	99.9	↓	J

9613424.0969

CALIBRATION DATA SUMMARY - FORM B-2

SDG: B00204	REVIEWER: RB	DATE: 3-18-93	PAGE____OF____		
COMMENTS:					
CALIB. TYPE:	INITIAL CONTINUING	INSTRUMENT:			
CALIB. DATE	COMPOUND	RF	RSD/%D/%R	SAMPLES AFFECTED	QUALIFIER
10/1/91	4-chlorophenyl phenyl ether	0	99.9	B00206, B00205, B00207, ~~B00209, B00257, B00258~~	J
↓	4,6-dinitro-2 methyl phenol	0.083	49.9	↓	↓
↓	hexachlorobenzene	0	99.9	↓	↓

9613424.0970
WHC-SD-EN-SPP-002, Rev. 1

DATA QUALIFICATION SUMMARY - FORM B-7

SDG: B00ZQ4	REVIEWER: PBD	DATE: 3/19/93	PAGE 1 OF 1
COMMENTS: Volatiles			
COMPOUND	QUALIFIER	SAMPLES AFFECTED	REASON
Acetone	U	All except B00ZQ4 and B00ZQ5	Lab blank contamination
All	J	B00ZR9	Surrogate Recovery
All analytes associated with internal standard Chlorobenzene-d5	J	B00ZR9	Low internal standard area
All analytes associated with internal standards 1,4-Difluorobenzene and Chlorobenzene-d5	J	B00ZS0	Low internal standard area

X01299

VOLATILE ORGANIC ANALYSIS, SOIL MATRIX, (ug/Kg)

Project WESTINGHOUSE-HANFORD
Laboratory Datachem
Case SDG B00ZQ4

Sample Number		B00ZQ4		B00ZQ5		B00ZQ6		B00ZQ7		B00ZQ8		B00ZQ9		B00ZR0		B00ZR1		B00ZR2		B00ZR3	
Location																					
Remarks																					
Sample Date		9/11/91		9/11/91		9/11/91		9/11/91		9/11/91		9/11/91		9/11/91		9/11/91		9/11/91		9/11/91	
Analysis Date		9/18/91		9/19/91		9/20/91		9/20/91		9/20/91		9/20/91		9/20/91		9/19/91		9/19/91		9/20/91	
Volatile Organic Compound	CRQL	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
Chloromethane	10	3	U	3	U	3	U	3	U	3	U	3	U	3	U	3	U	3	U	3	U
Bromomethane	10	2	↑	2	↑	2		2		2		2		2		2		2		2	↑
Vinyl Chloride	10	3	↓	3		3		3		3		3		3		3		3		3	
Chloroethane	10	3	U	3	U	3		3		3		3		3		3		3		3	
Methylene Chloride	10	376		320	U	3		43		73		33		83		43		53		103	
Acetone	10	128		820		83		211		237		213		28		211		215		210	
Carbon Disulfide	10	2	U	2	U	2		2		2		2		2		2		2		2	
1,1-Dichloroethene	10	2		2	↑	2		2		2		2		2		2		2		2	
1,1-Dichloroethane	10	2		2		2		2		2		2		2		2		2		2	
1,2-Dichloroethene (total)	10	2		2		2		2		2		2		2		2		2		2	
Chloroform	10	2		2		2		2		2		2		2		2		2		2	
1,2-Dichloroethane	10	1		1		1		1		1		1		1		1		1		1	
2-Butanone	10	2		2		2		2		2		2		2		2		2		2	
1,1,1-Trichloroethane	10	1		1		1		1		1		1		1		1		1		1	
Carbon Tetrachloride	10	1		1		1		1		1		1		1		1		1		1	
Bromodichloromethane	10	1		1		1		1		1		1		1		1		1		1	
1,2-Dichloropropane	10	1		1		1		1		1		1		1		1		1		1	
cis-1,3-Dichloropropene	10	2		2		2		2		2		2		2		2		2		2	
Trichloroethene	10	1		1		1		1		1		1		1		1		1		1	
Dibromochloromethane	10	1		1		1		1		1		1		1		1		1		1	
1,1,2-Trichloroethane	10	2		2		2		2		2		2		2		2		2		2	
Benzene	10	1		1		1		1		1		1		1		1		1		1	
trans-1,3-Dichloropropene	10	2		2		2		2		2		2		2		2		2		2	
Bromoform	10	1		1		1		1		1		1		1		1		1		1	
4-Methyl-2-pentanone	10	2		2		2		2		2		2		2		2		2		2	
2-Hexanone	10	2		2		2		2		2		2		2		2		2		2	
Tetrachloroethene	10	1		1		1		1		1		1		1		1		1		1	↓
1,1,2,2-Tetrachloroethane	10	1		1		1		1		1		1		1		1		1		1	U
Toluene	10	1		1		1		1		1		1		1		1		1		0.9	J
Chlorobenzene	10	1		1		1		1		1		1		1		1		1		1	U
Ethylbenzene	10	1		1		1		1		1		1		1		1		1		1	
Styrene	10	2		2		2		2		2		2		2		2		2		2	
Xylene (total)	10	0.9	↓	0.9	↓	0.9	↓	0.9	↓	0.9	↓	0.9	↓	0.9	↓	0.9	↓	0.9	↓	0.9	↓

9613424.0972

Project WESTINGHOUSE-HANFORD
Laboratory Datachem
Case SDG B00Z04

Sample Number		B00ZR4		B00ZR5		B00ZR6		B00ZR7		B00ZR8		B00ZR9		B00ZS0		B00ZS1		B00ZS2		B00ZS3	
Location																					
Remarks																					
Sample Date		9/11/91		9/11/91		9/11/91		9/11/91		9/11/91		9/11/91		9/11/91		9/11/91		9/11/91		9/11/91	
Analysis Date		9/19/91		9/20/91		9/19/91		9/19/91		9/19/91		9/19/91		9/19/91		9/19/91		9/19/91		9/19/91	
Volatile Organic Compound	CRQL	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
Chloromethane	10	3	U	3	U	3	U	3	U	3	U	3	UJ	3	U	3	U	3	U	3	U
Bromomethane	10	2		2		2		2		2		2		2		2		2		2	
Vinyl Chloride	10	3		3		3		3		3		3		3		3		3		3	
Chloroethane	10	3		3		3		3		3		3		3		3		3		3	
Methylene Chloride	10	3		3		3		3		3		3		3		3		3		3	
Acetone	10	15		9		11		30		18		43		31		26	U	32		6	
Carbon Disulfide	10	2		2		2		2		2		2		2		2	U	2		2	
1,1-Dichloroethene	10	2		2		2		2		2		2		2		2		2		2	
1,1-Dichloroethane	10	2		2		2		2		2		2		2		2		2		2	
1,2-Dichloroethene (total)	10	2		2		2		2		2		2		2		2		2		2	
Chloroform	10	2		2		2		2		2		2		2		2		2		2	
1,2-Dichloroethane	10	1		1		1		1		1		1	UJ	1		1	U	1	U	1	
2-Butanone	10	2		2		2		2		2		17	J	2	U	13		18		2	
1,1,1-Trichloroethane	10	1		1		1		1		1		1	UJ	1	UJ	1	U	1	U	1	
Carbon Tetrachloride	10	1		1		1		1		1		1		1		1		1		1	
Bromodichloromethane	10	1		1		1		1		1		1		1		1		1		1	
1,2-Dichloropropane	10	1		1		1		1		1		1		1		1		1		1	
cis-1,3-Dichloropropene	10	2		2		2		2		2		2		2		2		2		2	
Trichloroethene	10	1		1		1		1		1		1		1		1		1		1	
Dibromochloromethane	10	1		1		1		1		1		1		1		1		1		1	
1,1,2-Trichloroethane	10	2		2		2		2		2		2		2		2		2		2	
Benzene	10	1		1		1		1		1		1		1		1		1		1	
trans-1,3-Dichloropropene	10	2		2		2		2		2		2		2		2		2		2	
Bromoform	10	1		1		1		1		1		1		1		1		1		1	
4-Methyl-2-pentanone	10	2		2		2		2		2		2	UJ	2		2	U	2	U	2	
2-Hexanone	10	2		2		2		2		2		9	J	2		6		11		2	
Tetrachloroethene	10	1		1	U	1		1		1	U	1	UJ	1		1	U	1	U	1	
1,1,2,2-Tetrachloroethane	10	1		1	U	1		1		1	U	1		1		1		1		1	
Toluene	10	1		1	J	1		1		1	J	1		1		1		1		1	
Chlorobenzene	10	1		1	U	1		1		1	U	1		1		1		1		1	
Ethylbenzene	10	1		1		1		1		1		1		1		1		1		1	
Styrene	10	2		2		2		2		2		2		2		2		2		2	
Xylene (total)	10	0.9		0.9		0.9		0.9		0.9		0.9		0.9		0.9		0.9		0.9	

9613424.0973

VOLATILE ORGANIC ANALYSIS, SOIL MATRIX, (ug/Kg)

Project	WESTINGHOUSE-HANFORD																			
Laboratory	Datachem																			
Case	SDG B00ZQ4																			
Sample Number		B00ZS4		B00ZS5		B00ZS7		B00ZS8												
Location																				
Remarks																				
Sample Date		9/11/91		9/11/91		9/11/91		9/11/91												
Analysis Date		9/19/91		9/19/91		9/20/91		9/20/91												
Volatile Organic Compound	CRQL	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
Chloromethane	10	3	U	3	U	3	U	3	U												
Bromomethane	10	2		2		2		2													
Vinyl Chloride	10	3		3		3		3													
Chloroethane	10	3		3		3		3													
Methylene Chloride	10	3		3		3		3													
Acetone	10	11		6		4		23													
Carbon Disulfide	10	2		2		2		2													
1,1-Dichloroethene	10	2		2		2		2													
1,1-Dichloroethane	10	2		2		2		2													
1,2-Dichloroethene (total)	10	2		2		2		2													
Chloroform	10	2		2		2		2													
1,2-Dichloroethane	10	1	U	1		1		1	U												
2-Butanone	10	10		2		2		2	U												
1,1,1-Trichloroethane	10	1	U	1		1		1	U												
Carbon Tetrachloride	10	1		1		1		1	U												
Bromodichloromethane	10	1		1		1		1	U												
1,2-Dichloropropane	10	1		1		1		1	U												
cis-1,3-Dichloropropene	10	2		2		2		2	U												
Trichloroethene	10	1		1		1		1	U												
Dibromochloromethane	10	1		1		1		1	U												
1,1,2-Trichloroethane	10	2		2		2		2	U												
Benzene	10	1		1		1		1	U												
trans-1,3-Dichloropropene	10	2		2		2		2	U												
Bromoform	10	1		1		1		1	U												
4-Methyl-2-pentanone	10	2		2		2		2	U												
2-Hexanone	10	2		2		2		2	U												
Tetrachloroethene	10	1		1		1		1	U												
1,1,2,2-Tetrachloroethane	10	1		1	U	1		1	U												
Toluene	10	1		0.9	J	1		1	U												
Chlorobenzene	10	1		1	U	1		1	U												
Ethylbenzene	10	1		1		1		1	U												
Styrene	10	2		2		2		2	U												
Xylene (total)	10	0.9		0.9		0.9		0.9	U												

9613424.0974

BLANK AND SAMPLE DATA SUMMARY - ~~FORM B-3~~

SDG: ~~B00ZR~~ B00ZQ4	REVIEWER: PBD	DATE: 3/19/93	PAGE 1 OF 2
COMMENTS: Volatiles			

SAMPLE ID	COMPOUND	RESULT	Q	RT	UNITS	5X RESULT	10X RESULT	SAMPLES AFFECTED	QUALIFIER
VBLK02	Acetone	14			ug/kg	70	140	B00ZR1	U
								B00ZR2	
								B00ZR4	
								B00ZR6	
								B00ZR7	
								B00ZR8	
								B00ZR9	
								B00ZS0	
								B00ZS1	
								B00ZS2	
								B00ZS3	
								B00ZS4	
								B00ZS5	
VBLK03	Acetone	20			ug/kg	100	200	B00ZQ6	U
								B00ZQ7	
								B00ZQ8	
								B00ZQ9	

WHC-SD-EN-SPP-002, Rev. 1

9613424.0975

BLANK AND SAMPLE DATA SUMMARY - ~~FORM B-3~~

SDG: B00ZQ4	REVIEWER: PBD	DATE: 3/19/93	PAGE 2 OF 2
COMMENTS: Volatiles			

SAMPLE ID	COMPOUND	RESULT	Q	RT	UNITS	5X RESULT	10X RESULT	SAMPLES AFFECTED	QUALIFIER
VBLK03	Acetone	20			ug/kg	100	200	B00ZR0	U
								B00ZR3	
								B00ZR5	
								B00ZS7	
								B00ZS8	

WHC-SD-EN-SPP-002, Rev. 1

9613424.0976

ACCURACY DATA SUMMARY - FORM B-4

SDG: B00ZQ4	REVIEWER: PBD	DATE: 3/19/93	PAGE 1 OF 1	
COMMENTS: Volatiles				
SAMPLE ID	**COMPOUND**	**% RECOVERY**	**SAMPLE(S) AFFECTED**	**QUALIFIER REQUIRED**
B00ZR9	Toluene-d8	120	B00ZR9	J

9613424.0977

9613424.0978

VOAs

Sample Number
BOOZQ4

VOLATILE ORGANICS ANALYSIS DATA SHEET
(Page 1)

Laboratory Name: DATACHEM LABS
Lab Sample ID No: EK4368
Sample Matrix: SOIL
Data Release Authorized By:

Case No: 0719
QC Report No:
Contract No: 3534C
Date Sample Received: 09/13/91

ATK's Copies

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared:
Date Analyzed: 09/18/91
Conc/Dil Factor: 1. pH
Percent Moisture: (Not Decanted) 0.0

CAS Number		UG/KG		CAS Number		UG/KG	
74-87-3	Chloromethane	3	U	10061-01-5	cis-1,3-Dichloropropene	2	U
74-83-9	Bromomethane	2	U	79-01-6	Trichloroethene	1	U
75-01-4	Vinyl Chloride	3	U	124-48-1	Dibromochloromethane	1	U
75-00-3	Chloroethane	3	U	79-00-5	1,1,2-Trichloroethane	2	U
75-09-2	Methylene Chloride	3	U	71-43-2	Benzene	1	U
[redacted]				10061-02-6	Trans-1,3-Dichloroproene	2	U
75-15-0	Carbon Disulfide	2	U	110-75-8	2-Chloroethylvinylether	2	U
75-69-4	Trichlorofluoromethane	2	U	75-25-2	Bromoform	1	U
75-35-4	1,1-Dichloroethene	2	U	74-95-3	Dibromomethane	0.8	U
75-35-3	1,1-Dichloroethane	2	U	764-41-0	Trans-1,4-dichloro-2-butene	1	U
540-59-0	1,2-Dichloroethene (total)	2	U	108-10-1	4-Methyl-2-Pentanone	2	U
67-66-3	Chloroform	2	U	96-18-4	1,2,3-Trichloropropane	1	U
107-06-2	1,2-Dichloroethane	1	U	591-78-6	2-Hexanone	2	U
74-88-4	Iodomethane	2	U	127-18-4	Tetrachloroethene	1	U
107-02-8	Acrolein	2	U	79-34-5	1,1,2,2-Tetrachloroethane	1	U
107-13-1	Acrylonitrile	2	U	97-63-2	Ethyl methacrylate	1	U
78-93-3	2-Butanone	2	U	108-88-3	Toluene	1	U
71-55-6	1,1,1-Trichloroethane	1	U	108-90-7	Chlorobenzene	1	U
56-23-5	Carbon Tetrachloride	1	U	100-41-4	Ethylbenzene	1	U
108-05-4	Vinyl Acetate	3	U	100-42-5	Styrene	2	U
75-27-4	Bromodichloromethane	1	U	1330-20-7	Total Xylenes	0.9	U
78-87-5	1,2-Dichloropropane	1	U				

< - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

$$\frac{11988\ (50)}{48122\ (.775)} = 16.1 = >16$$

9613424.0979

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BOOZQ4

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: 0719 SAS No.: _____ SDG No.: EK4368

Matrix: (soil/water) SOIL Lab Sample ID: EK4368

Sample wt/vol: _____ (g/mL) G Lab File ID: KU09EK4368

Level: (low/med) LOW Date Received: 09/13/91

% Moisture: not dec. 0 Date Analyzed: 09/18/91

Column (pack/cap) PACK Dilution Factor: 1

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.

9613424.0980

Sample Number
BOOZQ5

VOLATILE ORGANICS ANALYSIS DATA SHEET
(Page 1)

Laboratory Name: DATACHEM LABS
Case No: 0719
Lab Sample ID No: EK4369
QC Report No:
Sample Matrix: SOIL
Contract No: 3534C
Data Release Authorized By:
Date Sample Received: 09/13/91

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared:
Date Analyzed: 09/19/91
Conc/Dil Factor: 1. pH
Percent Moisture: (Not Decanted) 1.0

CAS Number		UG/KG		CAS Number		UG/KG	
74-87-3	Chloromethane	3	U	10061-01-5	cis-1,3-Dichloropropene	2	U
74-83-9	Bromomethane	2	U	79-01-6	Trichloroethene	1	U
75-01-4	Vinyl Chloride	3	U	124-48-1	Dibromochloromethane	1	U
75-00-3	Chloroethane	3	U	79-00-5	1,1,2-Trichloroethane	2	U
75-09-2	Methylene Chloride	3	U	71-43-2	Benzene	1	U
67-64-1	Acetone	20		10061-02-6	Trans-1,3-Dichloroproene	2	U
75-15-0	Carbon Disulfide	2	U	110-75-8	2-Chloroethylvinylether	2	U
75-69-4	Trichlorofluoromethane	2	U	75-25-2	Bromoform	1	U
75-35-4	1,1-Dichloroethene	2	U	74-95-3	Dibromomethane	0.8	U
75-35-3	1,1-Dichloroethane	2	U	764-41-0	Trans-1,4-dichloro-2-butene	1	U
540-59-0	1,2-Dichloroethene (total)	2	U	108-10-1	4-Methyl-2-Pentanone	3	U
67-66-3	Chloroform	2	U	96-18-4	1,2,3-Trichloropropane	1	U
107-06-2	1,2-Dichloroethane	1	U	591-78-6	2-Hexanone	2	U
74-88-4	Iodomethane	2	U	127-18-4	Tetrachloroethene	1	U
107-02-8	Acrolein	2	U	79-34-5	1,1,2,2-Tetrachloroethane	1	U
107-13-1	Acrylonitrile	2	U	97-63-2	Ethyl methacrylate	1	U
78-93-3	2-Butanone	2	U	108-88-3	Toluene	1	U
71-55-6	1,1,1-Trichloroethane	1	U	108-90-7	Chlorobenzene	1	U
56-23-5	Carbon Tetrachloride	1	U	100-41-4	Ethylbenzene	1	U
108-05-4	Vinyl Acetate	3	U	100-42-5	Styrene	2	U
75-27-4	Bromodichloromethane	1	U	1330-20-7	Total Xylenes	0.9	U
78-87-5	1,2-Dichloropropane	1	U				

< - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

9613424 0981
1E

EPA SAMPLE NO.

BOOZQ5

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: 0719 SAS No.: _____ SDG No.: EK4368

Matrix: (soil/water) SOIL Lab Sample ID: EK4369

Sample wt/vol: _____ (g/mL) G Lab File ID: KU10EK4369

Level: (low/med) LOW Date Received: 09/13/91

% Moisture: not dec. 1 Date Analyzed: 09/19/91

Column (pack/cap) PACK Dilution Factor: 1

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

31

9613424.0982

Sample Number
BOOZQ6

VOLATILE ORGANICS ANALYSIS DATA SHEET

(Page 1)

Laboratory Name: DATACHEM LABS
Case No: 0719
Lab Sample ID No: EK4370
QC Report No:
Sample Matrix: SOIL
Contract No: 3534C
Data Release Authorized By:
Date Sample Received: 09/13/91

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared:
Date Analyzed: 09/20/91
Conc/Dil Factor: 1. pH
Percent Moisture: (Not Decanted) 1.0

CAS Number		UG/KG		CAS Number		UG/KG	
74-87-3	Chloromethane	3	U	10061-01-5	cis-1,3-Dichloropropene	2	U
74-83-9	Bromomethane	2	U	79-01-6	Trichloroethene	1	U
75-01-4	Vinyl Chloride	3	U	124-48-1	Dibromochloromethane	1	U
75-00-3	Chloroethane	3	U	79-00-5	1,1,2-Trichloroethane	2	U
75-09-2	Methylene Chloride	3	U	71-43-2	Benzene	1	U
[redacted]	Acetone	[redacted]	U	10061-02-6	Trans-1,3-Dichloroprodne	2	U
75-15-0	Carbon Disulfide	2	U	110-75-8	2-Chloroethylvinylether	2	U
75-69-4	Trichlorofluoromethane	2	U	75-25-2	Bromoform	1	U
75-35-4	1,1-Dichloroethene	2	U	74-95-3	Dibromomethane	0.8	U
75-35-3	1,1-Dichloroethane	2	U	764-41-0	Trans-1,4-dichloro-2-butene	1	U
540-59-0	1,2-Dichloroethene (total)	2	U	108-10-1	4-Methyl-2-Pentanone	3	U
67-66-3	Chloroform	2	U	96-18-4	1,2,3-Trichloropropane	1	U
107-06-2	1,2-Dichloroethane	1	U	591-78-6	2-Hexanone	2	U
74-88-4	Iodomethane	2	U	127-18-4	Tetrachloroethene	1	U
107-02-8	Acrolein	2	U	79-34-5	1,1,2,2-Tetrachloroethane	1	U
107-13-1	Acrylonitrile	2	U	97-63-2	Ethyl methacrylate	1	U
78-93-3	2-Butanone	2	U	108-88-3	Toluene	1	U
71-55-6	1,1,1-Trichloroethane	1	U	108-90-7	Chlorobenzene	1	U
56-23-5	Carbon Tetrachloride	1	U	100-41-4	Ethylbenzene	1	U
108-05-4	Vinyl Acetate	3	U	100-42-5	Styrene	2	U
75-27-4	Bromodichloromethane	1	U	1330-20-7	Total Xylenes	0.9	U
78-87-5	1,2-Dichloropropane	1	U				

B - Compound was detected in the QC blank.
< - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

9613424.0983

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BOOZQ6

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: 0719 SAS No.: _____ SDG No.: EK4368

Matrix: (soil/water) SOIL Lab Sample ID: EK4370

Sample wt/vol: _____ (g/mL) G Lab File ID: KU35EK4370

Level: (low/med) LOW Date Received: 09/13/91

% Moisture: not dec. 1 Date Analyzed: 09/20/91

Column (pack/cap) PACK Dilution Factor: 1

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

9613424.0984

Sample Number
B00ZQ7

VOLATILE ORGANICS ANALYSIS DATA SHEET

(Page 1)

Laboratory Name: DATACHEM LABS
Lab Sample ID No: EK4371
Sample Matrix: SOIL
Data Release Authorized By: _____

Case No: 0719
QC Report No: _____
Contract No: 3534C
Date Sample Received: 09/13/91

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: _____
Date Analyzed: 09/20/91
Conc/Dil Factor: 1. pH _____
Percent Moisture: (Not Decanted) 1.0

CAS Number		UG/KG		CAS Number		UG/KG	
74-87-3	Chloromethane	3	U	10061-01-5	cis-1,3-Dichloropropene	2	U
74-83-9	Bromomethane	2	U	79-01-6	Trichloroethene	1	U
75-01-4	Vinyl Chloride	3	U	124-48-1	Dibromochloromethane	1	U
75-00-3	Chloroethane	3	U	79-00-5	1,1,2-Trichloroethane	2	U
75-09-2	Methylene Chloride	3	U	71-43-2	Benzene	[illegible]	[illegible]
[redacted]	Acetone	[redacted]		10061-02-6	Trans-1,3-Dichloroproene	2	U
75-15-0	Carbon Disulfide	2	U	110-75-8	2-Chloroethylvinylether	2	U
75-69-4	Trichlorofluoromethane	2	U	75-25-2	Bromoform	1	U
75-35-4	1,1-Dichloroethene	2	U	74-95-3	Dibromomethane	0.8	U
75-35-3	1,1-Dichloroethane	2	U	764-41-0	Trans-1,4-dichloro-2-butene	1	U
540-59-0	1,2-Dichloroethene (total)	2	U	108-10-1	4-Methyl-2-Pentanone	3	U
67-66-3	Chloroform	2	U	96-18-4	1,2,3-Trichloropropane	1	U
107-06-2	1,2-Dichloroethane	1	U	591-78-6	2-Hexanone	2	U
74-88-4	Iodomethane	2	U	127-18-4	Tetrachloroethene	1	U
107-02-8	Acrolein	2	U	79-34-5	1,1,2,2-Tetrachloroethane	1	U
107-13-1	Acrylonitrile	2	U	97-63-2	Ethyl methacrylate	1	U
78-93-3	2-Butanone	2	U	108-88-3	Toluene	1	U
71-55-6	1,1,1-Trichloroethane	1	U	108-90-7	Chlorobenzene	1	U
56-23-5	Carbon Tetrachloride	1	U	100-41-4	Ethylbenzene	1	U
108-05-4	Vinyl Acetate	3	U	100-42-5	Styrene	2	U
75-27-4	Bromodichloromethane	1	U	1330-20-7	Total Xylenes	0.9	U
78-87-5	1,2-Dichloropropane	1	U				

B - Compound was detected in the QC blank.
< - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

9613424.0985
IE

EPA SAMPLE NO.

B00ZQ7

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: 0719 SAS No.: _____ SDG No.: EK4368

Matrix: (soil/water) SOIL Lab Sample ID: EK4371

Sample wt/vol: _____ (g/mL) G Lab File ID: KU36EK4371

Level: (low/med) LOW Date Received: 09/13/91

% Moisture: not dec. 1 Date Analyzed: 09/20/91

Column (pack/cap) PACK Dilution Factor: 1

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

9613424.0986

Sample Number
BOOZQ8

VOLATILE ORGANICS ANALYSIS DATA SHEET

(Page 1)

Laboratory Name: DATACHEM LABS
Case No: 0719
Lab Sample ID No: EK4372
QC Report No:
Sample Matrix: SOIL
Contract No: 3534C
Data Release Authorized By:
Date Sample Received: 09/13/91

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared:
Date Analyzed: 09/20/91
Conc/Dil Factor: 1. pH
Percent Moisture: (Not Decanted) 1.0

CAS Number		UG/KG		CAS Number		UG/KG	
74-87-3	Chloromethane	3	U	10061-01-5	cis-1,3-Dichloropropene	2	U
74-83-9	Bromomethane	2	U	79-01-6	Trichloroethene	1	U
75-01-4	Vinyl Chloride	3	U	124-48-1	Dibromochloromethane	1	U
75-00-3	Chloroethane	3	U	79-00-5	1,1,2-Trichloroethane	2	U
75-09-2	Methylene Chloride	3	U	71-43-2	Benzene	1	U
67-64-1	Acetone	37	B	10061-02-6	Trans-1,3-Dichloroproene	2	U
75-15-0	Carbon Disulfide	2	U	110-75-8	2-Chloroethylvinylether	2	U
75-69-4	Trichlorofluoromethane	2	U	75-25-2	Bromoform	1	U
75-35-4	1,1-Dichloroethene	2	U	74-95-3	Dibromomethane	0.8	U
75-35-3	1,1-Dichloroethane	2	U	764-41-0	Trans-1,4-dichloro-2-butene	1	U
540-59-0	1,2-Dichloroethene (total)	2	U	108-10-1	4-Methyl-2-Pentanone	3	U
67-66-3	Chloroform	2	U	96-18-4	1,2,3-Trichloropropane	1	U
107-06-2	1,2-Dichloroethane	1	U	591-78-6	2-Hexanone	2	U
74-88-4	Iodomethane	2	U	127-18-4	Tetrachloroethene	1	U
107-02-8	Acrolein	2	U	79-34-5	1,1,2,2-Tetrachloroethane	1	U
107-13-1	Acrylonitrile	2	U	97-63-2	Ethyl methacrylate	1	U
78-93-3	2-Butanone	2	U	108-88-3	Toluene	1	J
71-55-6	1,1,1-Trichloroethane	1	U	108-90-7	Chlorobenzene	1	U
56-23-5	Carbon Tetrachloride	1	U	100-41-4	Ethylbenzene	1	U
108-05-4	Vinyl Acetate	3	U	100-42-5	Styrene	2	U
75-27-4	Bromodichloromethane	1	U	1330-20-7	Total Xylenes	0.9	U
78-87-5	1,2-Dichloropropane	1	U				

B - Compound was detected in the QC blank.
= - Reported value is less than the detection limit.
< - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

9613424.0987

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BOOZQ8

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: 0719 SAS No.: _____ SDG No.: EK4368

Matrix: (soil/water) SOIL Lab Sample ID: EK4372

Sample wt/vol: _____ (g/mL) G Lab File ID: KU37EK4372

Level: (low/med) LOW Date Received: 09/13/91

% Moisture: not dec. 1 Date Analyzed: 09/20/91

Column (pack/cap) PACK Dilution Factor: 1

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

9613424.0988

Sample Number
BOOZQ9

VOLATILE ORGANICS ANALYSIS DATA SHEET
(Page 1)

Laboratory Name: DATACHEM LABS
Lab Sample ID No: EK4373
Sample Matrix: SOIL
Data Release Authorized By: _____

Case No: 0719
QC Report No: _____
Contract No: 3534C
Date Sample Received: 09/13/91

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: _____
Date Analyzed: 09/20/91
Conc/Dil Factor: 1. pH _____
Percent Moisture: (Not Decanted) 1.0

CAS Number		UG/KG		CAS Number		UG/KG	
74-87-3	Chloromethane	3	U	10061-01-5	cis-1,3-Dichloropropene	2	U
74-83-9	Bromomethane	2	U	79-01-6	Trichloroethene	1	U
75-01-4	Vinyl Chloride	3	U	124-48-1	Dibromochloromethane	1	U
75-00-3	Chloroethane	3	U	79-00-5	1,1,2-Trichloroethane	2	U
75-09-2	Methylene Chloride	3	U	71-43-2	Benzene	1	U
67-64-1	Acetone	[illegible]	U	10061-02-6	Trans-1,3-Dichloroproene	2	U
75-15-0	Carbon Disulfide	2	U	110-75-8	2-Chloroethylvinylether	2	U
75-69-4	Trichlorofluoromethane	2	U	75-25-2	Bromoform	1	U
75-35-4	1,1-Dichloroethene	2	U	74-95-3	Dibromomethane	0.8	U
75-35-3	1,1-Dichloroethane	2	U	764-41-0	Trans-1,4-dichloro-2-butene	1	U
540-59-0	1,2-Dichloroethene (total)	2	U	108-10-1	4-Methyl-2-Pentanone	3	U
67-66-3	Chloroform	2	U	96-18-4	1,2,3-Trichloropropane	1	U
107-06-2	1,2-Dichloroethane	1	U	591-78-6	2-Hexanone	2	U
74-88-4	Iodomethane	2	U	127-18-4	Tetrachloroethene	1	U
107-02-8	Acrolein	2	U	79-34-5	1,1,2,2-Tetrachloroethane	1	U
107-13-1	Acrylonitrile	2	U	97-63-2	Ethyl methacrylate	1	U
78-93-3	2-Butanone	2	U	108-88-3	Toluene	1	U
71-55-6	1,1,1-Trichloroethane	1	U	108-90-7	Chlorobenzene	1	U
56-23-5	Carbon Tetrachloride	1	U	100-41-4	Ethylbenzene	1	U
108-05-4	Vinyl Acetate	3	U	100-42-5	Styrene	2	U
75-27-4	Bromodichloromethane	1	U	1330-20-7	Total Xylenes	0.9	U
78-87-5	1,2-Dichloropropane	1	U				

B - Compound was detected in the QC blank.
< - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

9613424.0989

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BOOZQ9

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: 0719 SAS No.: _____ SDG No.: EK4368

Matrix: (soil/water) SOIL Lab Sample ID: EK4373

Sample wt/vol: _____ (g/mL) G Lab File ID: KU38EK4373

Level: (low/med) LOW Date Received: 09/13/91

% Moisture: not dec. 1 Date Analyzed: 09/20/91

Column (pack/cap) PACK Dilution Factor: 1

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

9613424.0990

Sample Number
BOOZR0

VOLATILE ORGANICS ANALYSIS DATA SHEET

(Page 1)

Laboratory Name: DATACHEM LABS
Lab Sample ID No: EK4374
Sample Matrix: SOIL
Data Release Authorized By: _____

Case No: 0719
QC Report No: _____
Contract No: 3534C
Date Sample Received: 09/13/91

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: _____
Date Analyzed: 09/20/91
Conc/Dil Factor: 1. pH _____
Percent Moisture: (Not Decanted) 0.0

CAS Number		UG/KG		CAS Number		UG/KG	
74-87-3	Chloromethane	3	U	10061-01-5	cis-1,3-Dichloropropene	2	U
74-83-9	Bromomethane	2	U	79-01-6	Trichloroethene	1	U
75-01-4	Vinyl Chloride	3	U	124-48-1	Dibromochloromethane	1	U
75-00-3	Chloroethane	3	U	79-00-5	1,1,2-Trichloroethane	2	U
75-09-2	Methylene Chloride	3	U	71-43-2	Benzene	1	U
[redacted]				10061-02-6	Trans-1,3-Dichloroproene	2	U
75-15-0	Carbon Disulfide	2	U	110-75-8	2-Chloroethylvinylether	2	U
75-69-4	Trichlorofluoromethane	2	U	75-25-2	Bromoform	1	U
75-35-4	1,1-Dichloroethene	2	U	74-95-3	Dibromomethane	0.8	U
75-35-3	1,1-Dichloroethane	2	U	764-41-0	Trans-1,4-dichloro-2-butene	1	U
540-59-0	1,2-Dichloroethene (total)	2	U	108-10-1	4-Methyl-2-Pentanone	2	U
67-66-3	Chloroform	2	U	96-18-4	1,2,3-Trichloropropane	1	U
107-06-2	1,2-Dichloroethane	1	U	591-78-6	2-Hexanone	2	U
74-88-4	Iodomethane	2	U	127-18-4	Tetrachloroethene	1	U
107-02-8	Acrolein	2	U	79-34-5	1,1,2,2-Tetrachloroethane	1	U
107-13-1	Acrylonitrile	2	U	97-63-2	Ethyl methacrylate	1	U
78-93-3	2-Butanone	2	U	108-88-3	[redacted]	[redacted]	
71-55-6	1,1,1-Trichloroethane	1	U	108-90-7	Chlorobenzene	1	U
56-23-5	Carbon Tetrachloride	1	U	100-41-4	Ethylbenzene	1	U
108-05-4	Vinyl Acetate	3	U	100-42-5	Styrene	2	U
75-27-4	Bromodichloromethane	1	U	1330-20-7	Total Xylenes	0.9	U
78-87-5	1,2-Dichloropropane	1	U				

B - Compound was detected in the QC blank.
= - Reported value is less than the detection limit.
< - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

9613424.0991

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BOOZR0

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: 0719 SAS No.: _____ SDG No.: EK4368

Matrix: (soil/water) SOIL Lab Sample ID: EK4374

Sample wt/vol: _____ (g/mL) G Lab File ID: KU39EK4374

Level: (low/med) LOW Date Received: 09/13/91

% Moisture: not dec. 0 Date Analyzed: 09/20/91

Column (pack/cap) PACK Dilution Factor: 1

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

9613424.0992

Sample Number
BOOZR1

VOLATILE ORGANICS ANALYSIS DATA SHEET

(Page 1)

Laboratory Name: DATACHEM LABS
Case No: 0719
Lab Sample ID No: EK4375
QC Report No:
Sample Matrix: SOIL
Contract No: 3534C
Data Release Authorized By:
Date Sample Received: 09/13/91

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared:
Date Analyzed: 09/19/91
Conc/Dil Factor: 1. pH
Percent Moisture: (Not Decanted) 1.0

CAS Number		UG/KG	CAS Number		UG/KG
74-87-3	Chloromethane	3 U	10061-01-5	cis-1,3-Dichloropropene	2 U
74-83-9	Bromomethane	2 U	79-01-6	Trichloroethene	1 U
75-01-4	Vinyl Chloride	3 U	124-48-1	Dibromochloromethane	1 U
75-00-3	Chloroethane	3 U	79-00-5	1,1,2-Trichloroethane	2 U
75-09-2	Methylene Chloride	3 U	71-43-2	Benzene	1 U
[redacted]	Acetone	[redacted]	10061-02-6	Trans-1,3-Dichloroproene	2 U
75-15-0	Carbon Disulfide	2 U	110-75-8	2-Chloroethylvinylether	2 U
75-69-4	Trichlorofluoromethane	2 U	75-25-2	Bromoform	1 U
75-35-4	1,1-Dichloroethene	2 U	74-95-3	Dibromomethane	0.8U
75-35-3	1,1-Dichloroethane	2 U	764-41-0	Trans-1,4-dichloro-2-butene	1 U
540-59-0	1,2-Dichloroethene (total)	2 U	108-10-1	4-Methyl-2-Pentanone	3 U
67-66-3	Chloroform	2 U	96-18-4	1,2,3-Trichloropropane	1 U
107-06-2	1,2-Dichloroethane	1 U	591-78-6	2-Hexanone	2 U
74-88-4	Iodomethane	2 U	127-18-4	Tetrachloroethene	1 U
107-02-8	Acrolein	2 U	79-34-5	1,1,2,2-Tetrachloroethane	1 U
107-13-1	Acrylonitrile	2 U	97-63-2	Ethyl methacrylate	1 U
78-93-3	2-Butanone	2 U	108-88-3	Toluene	1 U
71-55-6	1,1,1-Trichloroethane	1 U	108-90-7	Chlorobenzene	1 U
56-23-5	Carbon Tetrachloride	1 U	100-41-4	Ethylbenzene	1 U
108-05-4	Vinyl Acetate	3 U	100-42-5	Styrene	2 U
75-27-4	Bromodichloromethane	1 U	1330-20-7	Total Xylenes	0.9U
78-87-5	1,2-Dichloropropane	1 U			

B - Compound was detected in the QC blank.
< - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

9613424.0993

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BOOZR1

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: 0719 SAS No.: _____ SDG No.: EK4368

Matrix: (soil/water) SOIL Lab Sample ID: EK4375

Sample wt/vol: _____ (g/mL) G Lab File ID: KU14EK4375

Level: (low/med) LOW Date Received: 09/13/91

% Moisture: not dec. 1 Date Analyzed: 09/19/91

Column (pack/cap) PACK Dilution Factor: 1

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

9613424.0994

Sample Number
BOOZR2

VOLATILE ORGANICS ANALYSIS DATA SHEET

(Page 1)

Laboratory Name: DATACHEM LABS
Case No: 0719
Lab Sample ID No: EK4376
QC Report No:
Sample Matrix: SOIL
Contract No: 3534C
Data Release Authorized By:
Date Sample Received: 09/13/91

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared:
Date Analyzed: 09/19/91
Conc/Dil Factor: 1. pH
Percent Moisture: (Not Decanted) 1.0

CAS Number		UG/KG		CAS Number		UG/KG	
74-87-3	Chloromethane	3	U	10061-01-5	cis-1,3-Dichloropropene	2	U
74-83-9	Bromomethane	2	U	79-01-6	Trichloroethene	1	U
75-01-4	Vinyl Chloride	3	U	124-48-1	Dibromochloromethane	1	U
75-00-3	Chloroethane	3	U	79-00-5	1,1,2-Trichloroethane	2	U
75-09-2	Methylene Chloride	3	U	71-43-2	Benzene	1	U
67-64-1	Acetone	5	B	10061-02-6	Trans-1,3-Dichloroproene	2	U
75-15-0	Carbon Disulfide	2	U	110-75-8	2-Chloroethylvinylether	2	U
75-69-4	Trichlorofluoromethane	2	U	75-25-2	Bromoform	1	U
75-35-4	1,1-Dichloroethene	2	U	74-95-3	Dibromomethane	0.8	U
75-35-3	1,1-Dichloroethane	2	U	764-41-0	Trans-1,4-dichloro-2-butene	1	U
540-59-0	1,2-Dichloroethene (total)	2	U	108-10-1	4-Methyl-2-Pentanone	3	U
67-66-3	Chloroform	2	U	96-18-4	1,2,3-Trichloropropane	1	U
107-06-2	1,2-Dichloroethane	1	U	591-78-6	2-Hexanone		
74-88-4	Iodomethane	2	U	127-18-4	Tetrachloroethene	1	U
107-02-8	Acrolein	2	U	79-34-5	1,1,2,2-Tetrachloroethane	1	U
107-13-1	Acrylonitrile	2	U	97-63-2	Ethyl methacrylate	1	U
78-93-3	2-Butanone	2	U	108-88-3	Toluene	1	U
71-55-6	1,1,1-Trichloroethane	1	U	108-90-7	Chlorobenzene	1	U
56-23-5	Carbon Tetrachloride	1	U	100-41-4	Ethylbenzene	1	U
108-05-4	Vinyl Acetate	3	U	100-42-5	Styrene	2	U
75-27-4	Bromodichloromethane	1	U	1330-20-7	Total Xylenes	0.9	U
78-87-5	1,2-Dichloropropane	1	U				

B - Compound was detected in the QC blank.
< - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

1 TIC

9613424.0995

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BOOZR2

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: 0719 SAS No.: _____ SDG No.: EK4368

Matrix: (soil/water) SOIL Lab Sample ID: EK4376

Sample wt/vol: _____ (g/mL) G Lab File ID: KU15EK4376

Level: (low/med) LOW Date Received: 09/13/91

% Moisture: not dec. 1 Date Analyzed: 09/19/91

Column (pack/cap) PACK Dilution Factor: 1

Number TICs found: 1

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 928-68-7	2-HEPTANONE, 6-METHYL	26.91	13	JN

9613424.0996

Sample Number
BOOZR3

VOLATILE ORGANICS ANALYSIS DATA SHEET

(Page 1)

Laboratory Name: DATACHEM LABS
Lab Sample ID No: EK4377
Sample Matrix: SOIL
Data Release Authorized By: _____

Case No: 0719
QC Report No: _____
Contract No: 3534C
Date Sample Received: 09/13/91

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: _____
Date Analyzed: 09/20/91
Conc/Dil Factor: 1. pH _____
Percent Moisture: (Not Decanted) 1.0

CAS Number		UG/KG		CAS Number		UG/KG	
74-87-3	Chloromethane	3	U	10061-01-5	cis-1,3-Dichloropropene	2	U
74-83-9	Bromomethane	2	U	79-01-6	Trichloroethene	1	U
75-01-4	Vinyl Chloride	3	U	124-48-1	Dibromochloromethane	1	U
75-00-3	Chloroethane	3	U	79-00-5	1,1,2-Trichloroethane	2	U
75-09-2	Methylene Chloride	3	U	71-43-2	Benzene	1	U
67-64-1	Acetone	[redacted]		10061-02-6	Trans-1,3-Dichloroproene	2	U
75-15-0	Carbon Disulfide	2	U	110-75-8	2-Chloroethylvinylether	2	U
75-69-4	Trichlorofluoromethane	2	U	75-25-2	Bromoform	1	U
75-35-4	1,1-Dichloroethene	2	U	74-95-3	Dibromomethane	0.8	U
75-35-3	1,1-Dichloroethane	2	U	764-41-0	Trans-1,4-dichloro-2-butene	1	U
540-59-0	1,2-Dichloroethene (total)	2	U	108-10-1	4-Methyl-2-Pentanone	3	U
67-66-3	Chloroform	2	U	96-18-4	1,2,3-Trichloropropane	1	U
107-06-2	1,2-Dichloroethane	1	U	591-78-6	2-Hexanone	2	U
74-88-4	Iodomethane	2	U	127-18-4	Tetrachloroethene	1	U
107-02-8	Acrolein	2	U	79-34-5	1,1,2,2-Tetrachloroethane	1	U
107-13-1	Acrylonitrile	2	U	97-63-2	Ethyl methacrylate	1	U
78-93-3	2-Butanone	2	U	108-88-3	[redacted]	[redacted]	
71-55-6	1,1,1-Trichloroethane	1	U	108-90-7	Chlorobenzene	1	U
56-23-5	Carbon Tetrachloride	1	U	100-41-4	Ethylbenzene	1	U
108-05-4	Vinyl Acetate	3	U	100-42-5	Styrene	2	U
75-27-4	Bromodichloromethane	1	U	1330-20-7	Total Xylenes	0.9	U
78-87-5	1,2-Dichloropropane	1	U				

B - Compound was detected in the QC blank.
= - Reported value is less than the detection limit.
< - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

9613424.0997

1E

EPA SAMPLE NO.

BOOZR3

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: 0719 SAS No.: _____ SDG No.: EK4368

Matrix: (soil/water) SOIL Lab Sample ID: EK4377

Sample wt/vol: _____ (g/mL) G Lab File ID: KU40EK4377

Level: (low/med) LOW Date Received: 09/13/91

% Moisture: not dec. 1 Date Analyzed: 09/20/91

Column (pack/cap) PACK Dilution Factor: 1

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

9613424.0998

Sample Number
BOOZR4

VOLATILE ORGANICS ANALYSIS DATA SHEET

(Page 1)

Laboratory Name: DATACHEM LABS
Case No: 0719
Lab Sample ID No: EK4378
QC Report No:
Sample Matrix: SOIL
Contract No: 3534C
Data Release Authorized By:
Date Sample Received: 09/13/91

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared:
Date Analyzed: 09/19/91
Conc/Dil Factor: 1. pH
Percent Moisture: (Not Decanted) 1.0

CAS Number		UG/KG		CAS Number		UG/KG	
74-87-3	Chloromethane	3	U	10061-01-5	cis-1,3-Dichloropropene	2	U
74-83-9	Bromomethane	2	U	79-01-6	Trichloroethene	1	U
75-01-4	Vinyl Chloride	3	U	124-48-1	Dibromochloromethane	1	U
75-00-3	Chloroethane	3	U	79-00-5	1,1,2-Trichloroethane	2	U
75-09-2	Methylene Chloride	3	U	71-43-2	Benzene	1	U
[redacted]	[redacted]	[redacted]	[redacted]	10061-02-6	Trans-1,3-Dichloroproene	2	U
75-15-0	Carbon Disulfide	2	U	110-75-8	2-Chloroethylvinylether	2	U
75-69-4	Trichlorofluoromethane	2	U	75-25-2	Bromoform	1	U
75-35-4	1,1-Dichloroethene	2	U	74-95-3	Dibromomethane	0.8	U
75-35-3	1,1-Dichloroethane	2	U	764-41-0	Trans-1,4-dichloro-2-butene	1	U
540-59-0	1,2-Dichloroethene (total)	2	U	108-10-1	4-Methyl-2-Pentanone	3	U
67-66-3	Chloroform	2	U	96-18-4	1,2,3-Trichloropropane	1	U
107-06-2	1,2-Dichloroethane	1	U	591-78-6	2-Hexanone	2	U
74-88-4	Iodomethane	2	U	127-18-4	Tetrachloroethene	1	U
107-02-8	Acrolein	2	U	79-34-5	1,1,2,2-Tetrachloroethane	1	U
107-13-1	Acrylonitrile	2	U	97-63-2	Ethyl methacrylate	1	U
78-93-3	2-Butanone	2	U	108-88-3	Toluene	1	U
71-55-6	1,1,1-Trichloroethane	1	U	108-90-7	Chlorobenzene	1	U
56-23-5	Carbon Tetrachloride	1	U	100-41-4	Ethylbenzene	1	U
108-05-4	Vinyl Acetate	3	U	100-42-5	Styrene	2	U
75-27-4	Bromodichloromethane	1	U	1330-20-7	Total Xylenes	0.9	U
78-87-5	1,2-Dichloropropane	1	U				

B - Compound was detected in the QC blank.
< - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

9613424.0999

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BOOZR4

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: 0719 SAS No.: _____ SDG No.: EK4368

Matrix: (soil/water) SOIL Lab Sample ID: EK4378

Sample wt/vol: _____ (g/mL) G Lab File ID: KU17EK4378

Level: (low/med) LOW Date Received: 09/13/91

% Moisture: not dec. 1 Date Analyzed: 09/19/91

Column (pack/cap) PACK Dilution Factor: 1

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

9613424.1000

Sample Number
BOOZR5

VOLATILE ORGANICS ANALYSIS DATA SHEET
(Page 1)

Laboratory Name: DATACHEM LABS
Case No: 0719
Lab Sample ID No: EK4379
QC Report No:
Sample Matrix: SOIL
Contract No: 3534C
Data Release Authorized By:
Date Sample Received: 09/13/91

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared:
Date Analyzed: 09/20/91
Conc/Dil Factor: 1. pH
Percent Moisture: (Not Decanted) 1.0

CAS Number		UG/KG		CAS Number		UG/KG	
74-87-3	Chloromethane	3	U	10061-01-5	cis-1,3-Dichloropropene	2	U
74-83-9	Bromomethane	2	U	79-01-6	Trichloroethene	1	U
75-01-4	Vinyl Chloride	3	U	124-48-1	Dibromochloromethane	1	U
75-00-3	Chloroethane	3	U	79-00-5	1,1,2-Trichloroethane	2	U
75-09-2	Methylene Chloride	3	U	71-43-2	Benzene	1	U
67-64-1	Acetone	[redacted]		10061-02-6	Trans-1,3-Dichloroproene	2	U
75-15-0	Carbon Disulfide	2	U	110-75-8	2-Chloroethylvinylether	2	U
75-69-4	Trichlorofluoromethane	2	U	75-25-2	Bromoform	1	U
75-35-4	1,1-Dichloroethene	2	U	74-95-3	Dibromomethane	0.8	U
75-35-3	1,1-Dichloroethane	2	U	764-41-0	Trans-1,4-dichloro-2-butene	1	U
540-59-0	1,2-Dichloroethene (total)	2	U	108-10-1	4-Methyl-2-Pentanone	3	U
67-66-3	Chloroform	2	U	96-18-4	1,2,3-Trichloropropane	1	U
107-06-2	1,2-Dichloroethane	1	U	591-78-6	2-Hexanone	2	U
74-88-4	Iodomethane	2	U	127-18-4	Tetrachloroethene	1	U
107-02-8	Acrolein	2	U	79-34-5	1,1,2,2-Tetrachloroethane	1	U
107-13-1	Acrylonitrile	2	U	97-63-2	Ethyl methacrylate	1	U
78-93-3	2-Butanone	2	U	108-88-3	Toluene	[redacted]	
71-55-6	1,1,1-Trichloroethane	1	U	108-90-7	Chlorobenzene	1	U
56-23-5	Carbon Tetrachloride	1	U	100-41-4	Ethylbenzene	1	U
108-05-4	Vinyl Acetate	3	U	100-42-5	Styrene	2	U
75-27-4	Bromodichloromethane	1	U	1330-20-7	Total Xylenes	0.9	U
78-87-5	1,2-Dichloropropane	1	U				

B - Compound was detected in the QC blank.
= - Reported value is less than the detection limit.
< - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

9613424.1001

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BOOZR5

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: 0719 SAS No.: _____ SDG No.: EK4368

Matrix: (soil/water) SOIL Lab Sample ID: EK4379

Sample wt/vol: _____ (g/mL) G Lab File ID: KU41EK4379

Level: (low/med) LOW Date Received: 09/13/91

% Moisture: not dec. 1 Date Analyzed: 09/20/91

Column (pack/cap) PACK Dilution Factor: 1

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

9613424.1002

Sample Number
BOOZR6

VOLATILE ORGANICS ANALYSIS DATA SHEET

(Page 1)

Laboratory Name: DATACHEM LABS
Case No: 0719
Lab Sample ID No: EK4380
QC Report No:
Sample Matrix: SOIL
Contract No: 3534C
Data Release Authorized By:
Date Sample Received: 09/13/91

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared:
Date Analyzed: 09/19/91
Conc/Dil Factor: 1. pH
Percent Moisture: (Not Decanted) 0.0

CAS Number		UG/KG		CAS Number		UG/KG	
74-87-3	Chloromethane	3	U	10061-01-5	cis-1,3-Dichloropropene	2	U
74-83-9	Bromomethane	2	U	79-01-6	Trichloroethene	1	U
75-01-4	Vinyl Chloride	3	U	124-48-1	Dibromochloromethane	1	U
75-00-3	Chloroethane	3	U	79-00-5	1,1,2-Trichloroethane	2	U
75-09-2	Methylene Chloride	3	U	71-43-2	Benzene	1	U
[redacted]	[redacted]	[redacted]	[redacted]	10061-02-6	Trans-1,3-Dichloroproene	2	U
75-15-0	Carbon Disulfide	2	U	110-75-8	2-Chloroethylvinylether	2	U
75-69-4	Trichlorofluoromethane	2	U	75-25-2	Bromoform	1	U
75-35-4	1,1-Dichloroethene	2	U	74-95-3	Dibromomethane	0.8	U
75-35-3	1,1-Dichloroethane	2	U	764-41-0	Trans-1,4-dichloro-2-butene	1	U
540-59-0	1,2-Dichloroethene (total)	2	U	108-10-1	4-Methyl-2-Pentanone	2	U
67-66-3	Chloroform	2	U	96-18-4	1,2,3-Trichloropropane	1	U
107-06-2	1,2-Dichloroethane	1	U	591-78-6	2-Hexanone	2	U
74-88-4	Iodomethane	2	U	127-18-4	Tetrachloroethene	1	U
107-02-8	Acrolein	2	U	79-34-5	1,1,2,2-Tetrachloroethane	1	U
107-13-1	Acrylonitrile	2	U	97-63-2	Ethyl methacrylate	1	U
78-93-3	2-Butanone	2	U	108-88-3	Toluene	1	U
71-55-6	1,1,1-Trichloroethane	1	U	108-90-7	Chlorobenzene	1	U
56-23-5	Carbon Tetrachloride	1	U	100-41-4	Ethylbenzene	1	U
108-05-4	Vinyl Acetate	3	U	100-42-5	Styrene	2	U
75-27-4	Bromodichloromethane	1	U	1330-20-7	Total Xylenes	0.9	U
78-87-5	1,2-Dichloropropane	1	U				

B - Compound was detected in the QC blank.
< - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

9613424.1003

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BOOZR6

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: 0719 SAS No.: _____ SDG No.: EK4368

Matrix: (soil/water) SOIL Lab Sample ID: EK4380

Sample wt/vol: _____ (g/mL) G Lab File ID: KU19EK4380

Level: (low/med) LOW Date Received: 09/13/91

% Moisture: not dec. 0 Date Analyzed: 09/19/91

Column (pack/cap) PACK Dilution Factor: 1

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

9613424.1004

Sample Number
BOOZR7

VOLATILE ORGANICS ANALYSIS DATA SHEET

(Page 1)

Laboratory Name: DATACHEM LABS
Case No: 0719
Lab Sample ID No: EK4381
QC Report No:
Sample Matrix: SOIL
Contract No: 3534C
Data Release Authorized By:
Date Sample Received: 09/13/91

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared:
Date Analyzed: 09/19/91
Conc/Dil Factor: 1. pH
Percent Moisture: (Not Decanted) 1.0

CAS Number		UG/KG		CAS Number		UG/KG	
74-87-3	Chloromethane	3	U	10061-01-5	cis-1,3-Dichloropropene	2	U
74-83-9	Bromomethane	2	U	79-01-6	Trichloroethene	1	U
75-01-4	Vinyl Chloride	3	U	124-48-1	Dibromochloromethane	1	U
75-00-3	Chloroethane	3	U	79-00-5	1,1,2-Trichloroethane	2	U
75-09-2	Methylene Chloride	3	U U	71-43-2	Benzene	1	U
[redacted]	[redacted]	[redacted]	[redacted]	10061-02-6	Trans-1,3-Dichloroproene	2	U
75-15-0	Carbon Disulfide	2	U	110-75-8	2-Chloroethylvinylether	2	U
75-69-4	Trichlorofluoromethane	2	U	75-25-2	Bromoform	1	U
75-35-4	1,1-Dichloroethene	2	U	74-95-3	Dibromomethane	0.8	U
75-35-3	1,1-Dichloroethane	2	U	764-41-0	Trans-1,4-dichloro-2-butene	1	U
540-59-0	1,2-Dichloroethene (total)	2	U	108-10-1	4-Methyl-2-Pentanone	3	U
67-66-3	Chloroform	2	U	96-18-4	1,2,3-Trichloropropane	1	U
107-06-2	1,2-Dichloroethane	1	U	591-78-6	2-Hexanone	2	U
74-88-4	Iodomethane	2	U	127-18-4	Tetrachloroethene	1	U
107-02-8	Acrolein	2	U	79-34-5	1,1,2,2-Tetrachloroethane	1	U
107-13-1	Acrylonitrile	2	U	97-63-2	Ethyl methacrylate	1	U
78-93-3	2-Butanone	2	U	108-88-3	Toluene	1	U
71-55-6	1,1,1-Trichloroethane	1	U	108-90-7	Chlorobenzene	1	U
56-23-5	Carbon Tetrachloride	1	U	100-41-4	Ethylbenzene	1	U
108-05-4	Vinyl Acetate	3	U	100-42-5	Styrene	2	U
75-27-4	Bromodichloromethane	1	U	1330-20-7	Total Xylenes	0.9	U
78-87-5	1,2-Dichloropropane	1	U				

B - Compound was detected in the QC blank.
< - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

9613424.1005

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BOOZR7

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: 0719 SAS No.: _____ SDG No.: EK4368

Matrix: (soil/water) SOIL Lab Sample ID: EK4381

Sample wt/vol: _____ (g/mL) G Lab File ID: KU20EK4381

Level: (low/med) LOW Date Received: 09/13/91

% Moisture: not dec. 1 Date Analyzed: 09/19/91

Column (pack/cap) PACK Dilution Factor: 1

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

9613424.1006

Sample Number
BOOZR8

VOLATILE ORGANICS ANALYSIS DATA SHEET

(Page 1)

Laboratory Name: DATACHEM LABS
Lab Sample ID No: EK4382
Sample Matrix: SOIL
Data Release Authorized By: _____

Case No: 0719
QC Report No: _____
Contract No: 3534C
Date Sample Received: 09/13/91

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: _____
Date Analyzed: 09/19/91
Conc/Dil Factor: 1. pH _____
Percent Moisture: (Not Decanted) 1.0

CAS Number		UG/KG		CAS Number		UG/KG	
74-87-3	Chloromethane	3	U	10061-01-5	cis-1,3-Dichloropropene	2	U
74-83-9	Bromomethane	2	U	79-01-6	Trichloroethene	1	U
75-01-4	Vinyl Chloride	3	U	124-48-1	Dibromochloromethane	1	U
75-00-3	Chloroethane	3	U	79-00-5	1,1,2-Trichloroethane	2	U
75-09-2	Methylene Chloride	3	U	71-43-2	Benzene	1	U
67-64-1	Acetone	18	[redacted]	10061-02-6	Trans-1,3-Dichloroproene	2	U
75-15-0	Carbon Disulfide	2	U	110-75-8	2-Chloroethylvinylether	2	U
75-69-4	Trichlorofluoromethane	2	U	75-25-2	Bromoform	1	U
75-35-4	1,1-Dichloroethene	2	U	74-95-3	Dibromomethane	0.8	U
75-35-3	1,1-Dichloroethane	2	U	764-41-0	Trans-1,4-dichloro-2-butene	1	U
540-59-0	1,2-Dichloroethene (total)	2	U	108-10-1	4-Methyl-2-Pentanone	3	U
67-66-3	Chloroform	2	U	96-18-4	1,2,3-Trichloropropane	1	U
107-06-2	1,2-Dichloroethane	1	U	591-78-6	2-Hexanone	2	U
74-88-4	Iodomethane	2	U	127-18-4	Tetrachloroethene	1	U
107-02-8	Acrolein	2	U	79-34-5	1,1,2,2-Tetrachloroethane	1	U
107-13-1	Acrylonitrile	2	U	97-63-2	Ethyl methacrylate	1	U
78-93-3	2-Butanone	2	U	108-88-3	Toluene	1	U
71-55-6	1,1,1-Trichloroethane	1	U	108-90-7	Chlorobenzene	1	U
56-23-5	Carbon Tetrachloride	1	U	100-41-4	Ethylbenzene	1	U
108-05-4	Vinyl Acetate	3	U	100-42-5	Styrene	2	U
75-27-4	Bromodichloromethane	1	U	1330-20-7	Total Xylenes	0.9	U
78-87-5	1,2-Dichloropropane	1	U				

B - Compound was detected in the QC blank.
= - Reported value is less than the detection limit.
< - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

1TIC

9613424.1007

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BOOZR8

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: 0719 SAS No.: _____ SDG No.: EK4368

Matrix: (soil/water) SOIL Lab Sample ID: EK4382

Sample wt/vol: _____ (g/mL) G Lab File ID: KU21EK4382

Level: (low/med) LOW Date Received: 09/13/91

% Moisture: not dec. 1 Date Analyzed: 09/19/91

Column (pack/cap) PACK Dilution Factor: 1

Number TICs found: 1

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	C10 BICYCLIC HYDROCARBON	23.35	6.7	J

9613424.1008

Sample Number
BOOZR9

VOLATILE ORGANICS ANALYSIS DATA SHEET
(Page 1)

Laboratory Name: DATACHEM LABS
Case No: 0719
Lab Sample ID No: EK4383
QC Report No:
Sample Matrix: SOIL
Contract No: 3534C
Data Release Authorized By:
Date Sample Received: 09/13/91

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared:
Date Analyzed: 09/19/91
Conc/Dil Factor: 1. pH
Percent Moisture: (Not Decanted) 1.0

CAS Number		UG/KG		CAS Number		UG/KG	
74-87-3	Chloromethane	3	U J	10061-01-5	cis-1,3-Dichloropropene	2	U J
74-83-9	Bromomethane	2	U	79-01-6	Trichloroethene	1	U
75-01-4	Vinyl Chloride	3	U	124-48-1	Dibromochloromethane	1	U
75-00-3	Chloroethane	3	U	79-00-5	1,1,2-Trichloroethane	2	U
75-09-2	Methylene Chloride	3	U	71-43-2	Benzene	1	U
67-64-1	Acetone	63	U	10061-02-6	Trans-1,3-Dichloroproene	2	U
75-15-0	Carbon Disulfide	2	U	110-75-8	2-Chloroethylvinylether	2	U
75-69-4	Trichlorofluoromethane	2	U	75-25-2	Bromoform	1	U
75-35-4	1,1-Dichloroethene	2	U	74-95-3	Dibromomethane	0.8	U
75-35-3	1,1-Dichloroethane	2	U	764-41-0	Trans-1,4-dichloro-2-butene	1	U
540-59-0	1,2-Dichloroethene (total)	2	U	108-10-1	4-Methyl-2-Pentanone	3	U
67-66-3	Chloroform	2	U	96-18-4	1,2,3-Trichloropropane	1	U
107-06-2	1,2-Dichloroethane	1	U	591-78-6	2-Hexanone	1	U
74-88-4	Iodomethane	2	U	127-18-4	Tetrachloroethene	1	U
107-02-8	Acrolein	2	U	79-34-5	1,1,2,2-Tetrachloroethane	1	U
107-13-1	Acrylonitrile	2	U	97-63-2	Ethyl methacrylate	1	U
78-93-3	2-Butanone	1	U	108-88-3	Toluene	1	U
71-55-6	1,1,1-Trichloroethane	1	U	108-90-7	Chlorobenzene	1	U
56-23-5	Carbon Tetrachloride	1	U	100-41-4	Ethylbenzene	1	U
108-05-4	Vinyl Acetate	3	U	100-42-5	Styrene	2	U
75-27-4	Bromodichloromethane	1	U	1330-20-7	Total Xylenes	0.9	U J
78-87-5	1,2-Dichloropropane	1	U J				

← surrogate recovery (3rd 15 also)

B - Compound was detected in the QC blank.
< - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

/TIC

9613424.1009

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BOOZR9

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: 0719 SAS No.: _____ SDG No.: EK4368

Matrix: (soil/water) SOIL Lab Sample ID: EK4383

Sample wt/vol: _____ (g/mL) G Lab File ID: KU22EK4383

Level: (low/med) LOW Date Received: 09/13/91

% Moisture: not dec. 1 Date Analyzed: 09/19/91

Column (pack/cap) PACK Dilution Factor: 1

Number TICs found: 1

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 928-68-7	2-HEPTANONE, 6-METHYL	26.86	17	JN

9613424.1010

Sample Number
BOOZS0

VOLATILE ORGANICS ANALYSIS DATA SHEET

(Page 1)

Laboratory Name: DATACHEM LABS
Case No: 0719
Lab Sample ID No: EK4384
QC Report No:
Sample Matrix: SOIL
Contract No: 3534C
Data Release Authorized By:
Date Sample Received: 09/13/91

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared:
Date Analyzed: 09/19/91
Conc/Dil Factor: 1. pH
Percent Moisture: (Not Decanted) 2.0

CAS Number		UG/KG		CAS Number		UG/KG	
74-87-3	Chloromethane	3	U	10061-01-5	cis-1,3-Dichloropropene	2	U J
74-83-9	Bromomethane	2	U	79-01-6	Trichloroethene	1	U
75-01-4	Vinyl Chloride	3	U	124-48-1	Dibromochloromethane	1	U
75-00-3	Chloroethane	3	U	79-00-5	1,1,2-Trichloroethane	2	U
75-09-2	Methylene Chloride	3	U	71-43-2	Benzene	1	U
67-64-1	Acetone	[illegible]	[illegible]	10061-02-6	Trans-1,3-Dichloroproene	2	U
75-15-0	Carbon Disulfide	2	U	110-75-8	2-Chloroethylvinylether	2	U
75-69-4	Trichlorofluoromethane	2	U	75-25-2	Bromoform	1	U
75-35-4	1,1-Dichloroethene	2	U	74-95-3	Dibromomethane	0.8	U
75-35-3	1,1-Dichloroethane	2	U	764-41-0	Trans-1,4-dichloro-2-butene	1	U
540-59-0	1,2-Dichloroethene (total)	2	U	108-10-1	4-Methyl-2-Pentanone	3	U
67-66-3	Chloroform	2	U	96-18-4	1,2,3-Trichloropropane	1	U
107-06-2	1,2-Dichloroethane	1	U	591-78-6	2-Hexanone	2	U
74-88-4	Iodomethane	2	U	127-18-4	Tetrachloroethene	1	U
107-02-8	Acrolein	2	U	79-34-5	1,1,2,2-Tetrachloroethane	1	U
107-13-1	Acrylonitrile	2	U	97-63-2	Ethyl methacrylate	1	U
78-93-3	2-Butanone	2	U	108-88-3	Toluene	1	U
71-55-6	1,1,1-Trichloroethane	1	U J	108-90-7	Chlorobenzene	1	U
56-23-5	Carbon Tetrachloride	1	U	100-41-4	Ethylbenzene	1	U
108-05-4	Vinyl Acetate	3	U	100-42-5	Styrene	2	U
75-27-4	Bromodichloromethane	1	U	1330-20-7	Total Xylenes	0.9	U J
78-87-5	1,2-Dichloropropane	1	U J				

B - Compound was detected in the QC blank.
< - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

J L
2nd + 3rd LOW LB

9613424.1011

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BOOZS0

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: 0719 SAS No.: _____ SDG No.: EK4368

Matrix: (soil/water) SOIL Lab Sample ID: EK4384

Sample wt/vol: _____ (g/mL) G Lab File ID: KU23EK4384

Level: (low/med) LOW Date Received: 09/13/91

% Moisture: not dec. 2 Date Analyzed: 09/19/91

Column (pack/cap) PACK Dilution Factor: 1

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

9613424.1012

Sample Number
BOOZS1

VOLATILE ORGANICS ANALYSIS DATA SHEET

(Page 1)

Laboratory Name: DATACHEM LABS
Lab Sample ID No: EK4385
Sample Matrix: SOIL
Data Release Authorized By: _____

Case No: 0719
QC Report No: _____
Contract No: 3534C
Date Sample Received: 09/13/91

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: _____
Date Analyzed: 09/19/91
Conc/Dil Factor: 1. pH _____
Percent Moisture: (Not Decanted) 1.0

CAS Number		UG/KG		CAS Number		UG/KG	
74-87-3	Chloromethane	3	U	10061-01-5	cis-1,3-Dichloropropene	2	U
74-83-9	Bromomethane	2	U	79-01-6	Trichloroethene	1	U
75-01-4	Vinyl Chloride	3	U	124-48-1	Dibromochloromethane	1	U
75-00-3	Chloroethane	3	U	79-00-5	1,1,2-Trichloroethane	2	U
75-09-2	Methylene Chloride	3	U	71-43-2	Benzene	1	U
[redacted]				10061-02-6	Trans-1,3-Dichloroproene	2	U
75-15-0	Carbon Disulfide	2	U	110-75-8	2-Chloroethylvinylether	2	U
75-69-4	Trichlorofluoromethane	2	U	75-25-2	Bromoform	1	U
75-35-4	1,1-Dichloroethene	2	U	74-95-3	Dibromomethane	0.8	U
75-35-3	1,1-Dichloroethane	2	U	764-41-0	Trans-1,4-dichloro-2-butene	1	U
540-59-0	1,2-Dichloroethene (total)	2	U	108-10-1	4-Methyl-2-Pentanone	3	U
67-66-3	Chloroform	2	U	96-18-4	1,2,3-Trichloropropane	1	U
107-06-2	1,2-Dichloroethane	1	U	591-78-6	[redacted]		
74-88-4	Iodomethane	2	U	127-18-4	Tetrachloroethene	1	U
107-02-8	Acrolein	2	U	79-34-5	1,1,2,2-Tetrachloroethane	1	U
107-13-1	Acrylonitrile	2	U	97-63-2	Ethyl methacrylate	1	U
[redacted]				108-88-3	Toluene	1	U
71-55-6	1,1,1-Trichloroethane	1	U	108-90-7	Chlorobenzene	1	U
56-23-5	Carbon Tetrachloride	1	U	100-41-4	Ethylbenzene	1	U
108-05-4	Vinyl Acetate	3	U	100-42-5	Styrene	2	U
75-27-4	Bromodichloromethane	1	U	1330-20-7	Total Xylenes	0.9	U
78-87-5	1,2-Dichloropropane	1	U				

B - Compound was detected in the QC blank.
< - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

9613424.1013

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BOOZS1

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: 0719 SAS No.: _____ SDG No.: EK4368

Matrix: (soil/water) SOIL Lab Sample ID: EK4385

Sample wt/vol: _____ (g/mL) G Lab File ID: KU24EK4385

Level: (low/med) LOW Date Received: 09/13/91

% Moisture: not dec. 1 Date Analyzed: 09/19/91

Column (pack/cap) PACK Dilution Factor: 1

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

9613424.1014

Sample Number
B00ZS2

VOLATILE ORGANICS ANALYSIS DATA SHEET

(Page 1)

Laboratory Name: DATACHEM LABS
Case No: 0719
Lab Sample ID No: EK4386
QC Report No:
Sample Matrix: SOIL
Contract No: 3534C
Data Release Authorized By:
Date Sample Received: 09/13/91

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared:
Date Analyzed: 09/19/91
Conc/Dil Factor: 1. pH
Percent Moisture: (Not Decanted) 1.0

CAS Number		UG/KG		CAS Number		UG/KG	
74-87-3	Chloromethane	3	U	10061-01-5	cis-1,3-Dichloropropene	2	U
74-83-9	Bromomethane	2	U	79-01-6	Trichloroethene	1	U
75-01-4	Vinyl Chloride	3	U	124-48-1	Dibromochloromethane	1	U
75-00-3	Chloroethane	3	U	79-00-5	1,1,2-Trichloroethane	2	U
75-09-2	Methylene Chloride	3	U	71-43-2	Benzene	1	U
67-64-1	Acetone	32	[illegible]	10061-02-6	Trans-1,3-Dichloroproene	2	U
75-15-0	Carbon Disulfide	2	U	110-75-8	2-Chloroethylvinylether	2	U
75-69-4	Trichlorofluoromethane	2	U	75-25-2	Bromoform	1	U
75-35-4	1,1-Dichloroethene	2	U	74-95-3	Dibromomethane	0.8	U
75-35-3	1,1-Dichloroethane	2	U	764-41-0	Trans-1,4-dichloro-2-butene	1	U
540-59-0	1,2-Dichloroethene (total)	2	U	108-10-1	4-Methyl-2-Pentanone	3	U
67-66-3	Chloroform	2	U	96-18-4	1,2,3-Trichloropropane	1	U
107-06-2	1,2-Dichloroethane	1	U	591-78-6	2-Hexanone	1	[illegible]
74-88-4	Iodomethane	2	U	127-18-4	Tetrachloroethene	1	U
107-02-8	Acrolein	2	U	79-34-5	1,1,2,2-Tetrachloroethane	1	U
107-13-1	Acrylonitrile	2	U	97-63-2	Ethyl methacrylate	1	U
78-93-3	2-Butanone	18		108-88-3	Toluene	1	U
71-55-6	1,1,1-Trichloroethane	1	U	108-90-7	Chlorobenzene	1	U
56-23-5	Carbon Tetrachloride	1	U	100-41-4	Ethylbenzene	1	U
108-05-4	Vinyl Acetate	3	U	100-42-5	Styrene	2	U
75-27-4	Bromodichloromethane	1	U	1330-20-7	Total Xylenes	0.9	U
78-87-5	1,2-Dichloropropane	1	U				

B - Compound was detected in the QC blank.
< - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

2 TICs

9613424.1015

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BOOZS2

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: 0719 SAS No.: _____ SDG No.: EK4368

Matrix: (soil/water) SOIL Lab Sample ID: EK4386

Sample wt/vol: _____ (g/mL) G Lab File ID: KU25EK4386

Level: (low/med) LOW Date Received: 09/13/91

% Moisture: not dec. 1 Date Analyzed: 09/19/91

Column (pack/cap) PACK Dilution Factor: 1

Number TICs found: 2

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	C7 KETONE	23.65	12	J
2. 928-68-7	2-HEPTANONE, 6-METHYL-	26.81	39	JN

9613424.1016

Sample Number
BOOZS3

VOLATILE ORGANICS ANALYSIS DATA SHEET
(Page 1)

Laboratory Name: DATACHEM LABS
Lab Sample ID No: EK4387
Sample Matrix: SOIL
Data Release Authorized By: _____

Case No: 0719
QC Report No: _____
Contract No: 3534C
Date Sample Received: 09/13/91

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: _____
Date Analyzed: 09/19/91
Conc/Dil Factor: 1. pH _____
Percent Moisture: (Not Decanted) 1.0

CAS Number		UG/KG		CAS Number		UG/KG	
74-87-3	Chloromethane	3	U	10061-01-5	cis-1,3-Dichloropropene	2	U
74-83-9	Bromomethane	2	U	79-01-6	Trichloroethene	1	U
75-01-4	Vinyl Chloride	3	U	124-48-1	Dibromochloromethane	1	U
75-00-3	Chloroethane	3	U	79-00-5	1,1,2-Trichloroethane	2	U
75-09-2	Methylene Chloride	3	U	71-43-2	Benzene	1	U
67-64-1	Acetone	[illegible]	[illegible]	10061-02-6	Trans-1,3-Dichloroproene	2	U
75-15-0	Carbon Disulfide	2	U	110-75-8	2-Chloroethylvinylether	2	U
75-69-4	Trichlorofluoromethane	2	U	75-25-2	Bromoform	1	U
75-35-4	1,1-Dichloroethene	2	U	74-95-3	Dibromomethane	0.8	U
75-35-3	1,1-Dichloroethane	2	U	764-41-0	Trans-1,4-dichloro-2-butene	1	U
540-59-0	1,2-Dichloroethene (total)	2	U	108-10-1	4-Methyl-2-Pentanone	3	U
67-66-3	Chloroform	2	U	96-18-4	1,2,3-Trichloropropane	1	U
107-06-2	1,2-Dichloroethane	1	U	591-78-6	2-Hexanone	2	U
74-88-4	Iodomethane	2	U	127-18-4	Tetrachloroethene	1	U
107-02-8	Acrolein	2	U	79-34-5	1,1,2,2-Tetrachloroethane	1	U
107-13-1	Acrylonitrile	2	U	97-63-2	Ethyl methacrylate	1	U
78-93-3	2-Butanone	2	U	108-88-3	Toluene	1	U
71-55-6	1,1,1-Trichloroethane	1	U	108-90-7	Chlorobenzene	1	U
56-23-5	Carbon Tetrachloride	1	U	100-41-4	Ethylbenzene	1	U
108-05-4	Vinyl Acetate	3	U	100-42-5	Styrene	2	U
75-27-4	Bromodichloromethane	1	U	1330-20-7	Total Xylenes	0.9	U
78-87-5	1,2-Dichloropropane	1	U				

B - Compound was detected in the QC blank.
< - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

9613424.1017

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BOOZS3

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: 0719 SAS No.: _____ SDG No.: EK4368

Matrix: (soil/water) SOIL Lab Sample ID: EK4387

Sample wt/vol: _____ (g/mL) G Lab File ID: KU26EK4387

Level: (low/med) LOW Date Received: 09/13/91

% Moisture: not dec. 1 Date Analyzed: 09/19/91

Column (pack/cap) PACK Dilution Factor: 1

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

9613424.1018

Sample Number
BOOZS4

VOLATILE ORGANICS ANALYSIS DATA SHEET

(Page 1)

Laboratory Name: DATACHEM LABS
Case No: 0719
Lab Sample ID No: EK4388
QC Report No:
Sample Matrix: SOIL
Contract No: 3534C
Data Release Authorized By:
Date Sample Received: 09/13/91

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared:
Date Analyzed: 09/19/91
Conc/Dil Factor: 1. pH
Percent Moisture: (Not Decanted) 0.0

CAS Number		UG/KG		CAS Number		UG/KG	
74-87-3	Chloromethane	3	U	10061-01-5	cis-1,3-Dichloropropene	2	U
74-83-9	Bromomethane	2	U	79-01-6	Trichloroethene	1	U
75-01-4	Vinyl Chloride	3	U	124-48-1	Dibromochloromethane	1	U
75-00-3	Chloroethane	3	U	79-00-5	1,1,2-Trichloroethane	2	U
75-09-2	Methylene Chloride	3	U	71-43-2	Benzene	1	U
67-64-1	Acetone	[redacted]		10061-02-6	Trans-1,3-Dichloroproene	2	U
75-15-0	Carbon Disulfide	2	U	110-75-8	2-Chloroethylvinylether	2	U
75-69-4	Trichlorofluoromethane	2	U	75-25-2	Bromoform	1	U
75-35-4	1,1-Dichloroethene	2	U	74-95-3	Dibromomethane	0.8	U
75-35-3	1,1-Dichloroethane	2	U	764-41-0	Trans-1,4-dichloro-2-butene	1	U
540-59-0	1,2-Dichloroethene (total)	2	U	108-10-1	4-Methyl-2-Pentanone	2	U
67-66-3	Chloroform	2	U	96-18-4	1,2,3-Trichloropropane	1	U
107-06-2	1,2-Dichloroethane	1	U	591-78-6	2-Hexanone	2	U
74-88-4	Iodomethane	2	U	127-18-4	Tetrachloroethene	1	U
107-02-8	Acrolein	2	U	79-34-5	1,1,2,2-Tetrachloroethane	1	U
107-13-1	Acrylonitrile	2	U	97-63-2	Ethyl methacrylate	1	U
78-93-3	2-Butanone	[redacted]		108-88-3	Toluene	1	U
71-55-6	1,1,1-Trichloroethane	1	U	108-90-7	Chlorobenzene	1	U
56-23-5	Carbon Tetrachloride	1	U	100-41-4	Ethylbenzene	1	U
108-05-4	Vinyl Acetate	3	U	100-42-5	Styrene	2	U
75-27-4	Bromodichloromethane	1	U	1330-20-7	Total Xylenes	0.9	U
78-87-5	1,2-Dichloropropane	1	U				

B - Compound was detected in the QC blank.
< - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

9613424.1019

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BOOZS4

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: 0719 SAS No.: _____ SDG No.: EK4368

Matrix: (soil/water) SOIL Lab Sample ID: EK4388

Sample wt/vol: _____ (g/mL) G Lab File ID: KU27EK4388

Level: (low/med) LOW Date Received: 09/13/91

% Moisture: not dec. 0 Date Analyzed: 09/19/91

Column (pack/cap) PACK Dilution Factor: 1

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

9613424.1020

Sample Number
BOOZS5

VOLATILE ORGANICS ANALYSIS DATA SHEET

(Page 1)

Laboratory Name: DATACHEM LABS
Case No: 0719
Lab Sample ID No: EK4389
QC Report No:
Sample Matrix: SOIL
Contract No: 3534C
Data Release Authorized By:
Date Sample Received: 09/13/91

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared:
Date Analyzed: 09/19/91
Conc/Dil Factor: 1. pH
Percent Moisture: (Not Decanted) 0.0

CAS Number		UG/KG		CAS Number		UG/KG	
74-87-3	Chloromethane	3	U	10061-01-5	cis-1,3-Dichloropropene	2	U
74-83-9	Bromomethane	2	U	79-01-6	Trichloroethene	1	U
75-01-4	Vinyl Chloride	3	U	124-48-1	Dibromochloromethane	1	U
75-00-3	Chloroethane	3	U	79-00-5	1,1,2-Trichloroethane	2	U
75-09-2	Methylene Chloride	3	U	71-43-2	Benzene	1	U
67-64-1	Acetone	6	B, U	10061-02-6	Trans-1,3-Dichloroproene	2	U
75-15-0	Carbon Disulfide	2	U	110-75-8	2-Chloroethylvinylether	2	U
75-69-4	Trichlorofluoromethane	2	U	75-25-2	Bromoform	1	U
75-35-4	1,1-Dichloroethene	2	U	74-95-3	Dibromomethane	0.8	U
75-35-3	1,1-Dichloroethane	2	U	764-41-0	Trans-1,4-dichloro-2-butene	1	U
540-59-0	1,2-Dichloroethene (total)	2	U	108-10-1	4-Methyl-2-Pentanone	2	U
67-66-3	Chloroform	2	U	96-18-4	1,2,3-Trichloropropane	1	U
107-06-2	1,2-Dichloroethane	1	U	591-78-6	2-Hexanone	2	U
74-88-4	Iodomethane	2	U	127-18-4	Tetrachloroethene	1	U
107-02-8	Acrolein	2	U	79-34-5	1,1,2,2-Tetrachloroethane	1	U
107-13-1	Acrylonitrile	2	U	97-63-2	Ethyl methacrylate	1	U
78-93-3	2-Butanone	2	U	108-88-3	Toluene	0.9	J
71-55-6	1,1,1-Trichloroethane	1	U	108-90-7	Chlorobenzene	1	U
56-23-5	Carbon Tetrachloride	1	U	100-41-4	Ethylbenzene	1	U
108-05-4	Vinyl Acetate	3	U	100-42-5	Styrene	2	U
75-27-4	Bromodichloromethane	1	U	1330-20-7	Total Xylenes	0.9	U
78-87-5	1,2-Dichloropropane	1	U				

B - Compound was detected in the QC blank.
= - Reported value is less than the detection limit.
< - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

9613424.1021

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BOOZS5

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: 0719 SAS No.: _____ SDG No.: EK4368

Matrix: (soil/water) SOIL Lab Sample ID: EK4389

Sample wt/vol: _____ (g/mL) G Lab File ID: KU28EK4389

Level: (low/med) LOW Date Received: 09/13/91

% Moisture: not dec. 0 Date Analyzed: 09/19/91

Column (pack/cap) PACK Dilution Factor: 1

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

241

9613424.1022

Sample Number
BOOZS7

VOLATILE ORGANICS ANALYSIS DATA SHEET

(Page 1)

Laboratory Name: DATACHEM LABS
Case No: 0719
Lab Sample ID No: EK4390
QC Report No:
Sample Matrix: SOIL
Contract No: 3534C
Data Release Authorized By:
Date Sample Received: 09/13/91

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared:
Date Analyzed: 09/20/91
Conc/Dil Factor: 1. pH
Percent Moisture: (Not Decanted) 0.0

CAS Number		UG/KG		CAS Number		UG/KG	
74-87-3	Chloromethane	3	U	10061-01-5	cis-1,3-Dichloropropene	2	U
74-83-9	Bromomethane	2	U	79-01-6	Trichloroethene	1	U
75-01-4	Vinyl Chloride	3	U	124-48-1	Dibromochloromethane	1	U
75-00-3	Chloroethane	3	U	79-00-5	1,1,2-Trichloroethane	2	U
75-09-2	Methylene Chloride	3	U	71-43-2	Benzene	1	U
67-64-1	Acetone	[illegible]	[illegible]	10061-02-6	Trans-1,3-Dichloroproene	2	U
75-15-0	Carbon Disulfide	2	U	110-75-8	2-Chloroethylvinylether	2	U
75-69-4	Trichlorofluoromethane	2	U	75-25-2	Bromoform	1	U
75-35-4	1,1-Dichloroethene	2	U	74-95-3	Dibromomethane	0.8	U
75-35-3	1,1-Dichloroethane	2	U	764-41-0	Trans-1,4-dichloro-2-butene	1	U
540-59-0	1,2-Dichloroethene (total)	2	U	108-10-1	4-Methyl-2-Pentanone	2	U
67-66-3	Chloroform	2	U	96-18-4	1,2,3-Trichloropropane	1	U
107-06-2	1,2-Dichloroethane	1	U	591-78-6	2-Hexanone	2	U
74-88-4	Iodomethane	2	U	127-18-4	Tetrachloroethene	1	U
107-02-8	Acrolein	2	U	79-34-5	1,1,2,2-Tetrachloroethane	1	U
107-13-1	Acrylonitrile	2	U	97-63-2	Ethyl methacrylate	1	U
78-93-3	2-Butanone	2	U	108-88-3	Toluene	1	U
71-55-6	1,1,1-Trichloroethane	1	U	108-90-7	Chlorobenzene	1	U
56-23-5	Carbon Tetrachloride	1	U	100-41-4	Ethylbenzene	1	U
108-05-4	Vinyl Acetate	3	U	100-42-5	Styrene	2	U
75-27-4	Bromodichloromethane	1	U	1330-20-7	Total Xylenes	0.9	U
78-87-5	1,2-Dichloropropane	1	U				

B - Compound was detected in the QC blank.
< - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

9613424.1023

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BOOZS7

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: 0719 SAS No.: _____ SDG No.: EK4368

Matrix: (soil/water) SOIL Lab Sample ID: EK4390

Sample wt/vol: _____ (g/mL) G Lab File ID: KU33EK4390

Level: (low/med) LOW Date Received: 09/13/91

% Moisture: not dec. 0 Date Analyzed: 09/20/91

Column (pack/cap) PACK Dilution Factor: 1

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

251

9613424.1024

Sample Number
BOOZS8

VOLATILE ORGANICS ANALYSIS DATA SHEET
(Page 1)

Laboratory Name: DATACHEM LABS
Case No: 0719
Lab Sample ID No: EK4391
QC Report No:
Sample Matrix: SOIL
Contract No: 3534C
Data Release Authorized By:
Date Sample Received: 09/13/91

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared:
Date Analyzed: 09/20/91
Conc/Dil Factor: 1. pH
Percent Moisture: (Not Decanted) 0.0

CAS Number		UG/KG		CAS Number		UG/KG	
74-87-3	Chloromethane	3	U	10061-01-5	cis-1,3-Dichloropropene	2	U
74-83-9	Bromomethane	2	U	79-01-6	Trichloroethene	1	U
75-01-4	Vinyl Chloride	3	U	124-48-1	Dibromochloromethane	1	U
75-00-3	Chloroethane	3	U	79-00-5	1,1,2-Trichloroethane	2	U
75-09-2	Methylene Chloride	3	U	71-43-2	Benzene	1	U
67-64-1	Acetone	23	~~B~~ U	10061-02-6	Trans-1,3-Dichloroproene	2	U
75-15-0	Carbon Disulfide	2	U	110-75-8	2-Chloroethylvinylether	2	U
75-69-4	Trichlorofluoromethane	2	U	75-25-2	Bromoform	1	U
75-35-4	1,1-Dichloroethene	2	U	74-95-3	Dibromomethane	0.8	U
75-35-3	1,1-Dichloroethane	2	U	764-41-0	Trans-1,4-dichloro-2-butene	1	U
540-59-0	1,2-Dichloroethene (total)	2	U	108-10-1	4-Methyl-2-Pentanone	2	U
67-66-3	Chloroform	2	U	96-18-4	1,2,3-Trichloropropane	1	U
107-06-2	1,2-Dichloroethane	1	U	591-78-6	2-Hexanone	2	U
74-88-4	Iodomethane	2	U	127-18-4	Tetrachloroethene	1	U
107-02-8	Acrolein	2	U	79-34-5	1,1,2,2-Tetrachloroethane	1	U
107-13-1	Acrylonitrile	2	U	97-63-2	Ethyl methacrylate	1	U
78-93-3	2-Butanone	2	U	108-88-3	Toluene	1	U
71-55-6	1,1,1-Trichloroethane	1	U	108-90-7	Chlorobenzene	1	U
56-23-5	Carbon Tetrachloride	1	U	100-41-4	Ethylbenzene	1	U
108-05-4	Vinyl Acetate	3	U	100-42-5	Styrene	2	U
75-27-4	Bromodichloromethane	1	U	1330-20-7	Total Xylenes	0.9	U
78-87-5	1,2-Dichloropropane	1	U				

B - Compound was detected in the QC blank.
< - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

PB Δ 3/19/93

9613424.1025

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BOOZS8

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: 0719 SAS No.: _____ SDG No.: EK4368

Matrix: (soil/water) SOIL Lab Sample ID: EK4391

Sample wt/vol: _____ (g/mL) G Lab File ID: KU34EK4391

Level: (low/med) LOW Date Received: 09/13/91

% Moisture: not dec. 0 Date Analyzed: 09/20/91

Column (pack/cap) PACK Dilution Factor: 1

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

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2B

SOIL VOLATILE SURROGATE RECOVERY

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: 0719 SAS No.: _____ SDG No.: EK4368

Level: (low/med) LOW

106.4

169171 =
182043 (.273)

	EPA SAMPLE NO.	S1 (TOL) #	S2 (BFB) #	S3 (DCE) #	OTHER	TOT OUT
01	BOOZQ4	106	108	101		0
02	BOOZQ5	116	102	105		0
03	BOOZQ6	99	97	91		0
04	BOOZQ7	100	97	91		0
05	BOOZQ8	105	90	90		0
06	BOOZQ9	104	89	92		0
07	BOOZR0	100	94	89		0
08	BOOZR1	106	94	99		0
09	BOOZR2	107	87	101		0
10	BOOZR3	103	90	88		0
11	BOOZR4	105	99	94		0
12	BOOZR5	97	93	85		0
13	BOOZR6	113	90	99		0
14	BOOZR7	102	98	102		0
15	BOOZR8	109	92	99		0
16	BOOZR9	120 *	83	98		1
17	BOOZS0	100	100	93		0
18	BOOZS1	110	91	97		0
19	BOOZS2	109	90	96		0
20	BOOZS3	107	96	96		0
21	BOOZS4	101	98	94		0
22	BOOZS5	102	95	95		0
23	BOOZS7	97	99	98		0
24	BOOZS8	99	98	94		0
25	BOOZR9MS	109	78	86		0
26	BOOZR9MSD	114	80	91		0
27	BOOZS0MS	102	87	89		0
28	BOOZS0MSD	102	87	88		0
29	VBLK01	107	110	100		0
30	VBLK02	100	99	96		0

Tol(1) - 0.873
Tol(2) - 0.941
Tol(3) - 0.985
BFB(1) - 0.793
BFB(2) - 0.871
BFB(3) - 0.854
DCE(1) - 1.592
DCE(2) - 1.785
DCE(3) - 1.771

		QC LIMITS
S1 (TOL)	= Toluene-d8	(81-117)
S2 (BFB)	= Bromofluorobenzene	(74-121)
S3 (DCE)	= 1,2-Dichloroethane-d4	(70-121)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

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9613424.1027

2B
SOIL VOLATILE SURROGATE RECOVERY

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: 0719 SAS No.: _____ SDG No.: EK4368

Level:(low/med) LOW

	EPA SAMPLE NO.	S1 (TOL) #	S2 (BFB) #	S3 (DCE) #	OTHER	TOT OUT
01	VBLK03	98	101	99		0

		QC LIMITS
S1 (TOL)	= Toluene-d8	(81-117)
S2 (BFB)	= Bromofluorobenzene	(74-121)
S3 (DCE)	= 1,2-Dichloroethane-d4	(70-121)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

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9613424.1028

3B

SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: 0719 SAS No.: _____ SDG No.: EK4368

Matrix Spike - EPA Sample No.: BOOZR9 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC.
1,1-Dichloroethene	50.5	0	47.8	95	59-172
Trichloroethene	50.5	0	43.6	86	62-137
Benzene	50.5	0	56.4	112	66-142
Toluene	50.5	0	58.4	116	59-139
Chlorobenzene	50.5	0	52.8	105	60-133

Benzene: $\frac{136945\ (50)}{146396\ (.839)} - \frac{55.7}{50.5} = 111\%$ ok

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	50.5	39.3	78	20	22	59-172
Trichloroethene	50.5	40.2	80	7	24	62-137
Benzene	50.5	58.4	116	-4	21	66-142
Toluene	50.5	60.4	120	-3	21	59-139
Chlorobenzene	50.5	55.6	110	-5	21	60-133

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 5 outside limits
Spike Recovery: 0 out of 10 outside limits

COMMENTS: B00ZR9 EK4383
MS-E CASE: 0719

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9613424.1029

3B

SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: 0719 SAS No.: _____ SDG No.: EK4368

Matrix Spike - EPA Sample No.: B00ZS0 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC.
1,1-Dichloroethene	51.0	0	50.2	98	59-172
Trichloroethene	51.0	0	46.8	92	62-137
Benzene	51.0	0	57.6	113	66-142
Toluene	51.0	0	57.3	112	59-139
Chlorobenzene	51.0	0	54.7	107	60-133

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	51.0	47.6	93	5	22	59-172
Trichloroethene	51.0	45.9	90	2	24	62-137
Benzene	51.0	55.1	108	5	21	66-142
Toluene	51.0	55.6	109	3	21	59-139
Chlorobenzene	51.0	53.5	105	2	21	60-133

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 5 outside limits
Spike Recovery: 0 out of 10 outside limits

COMMENTS: B00ZS0 EK4384
MS-E CASE: 0719

9613424.1030

4A
VOLATILE METHOD BLANK SUMMARY

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: 0719 SAS No.: _____ SDG No.: EK4368

Lab File ID: KU08BLANK Lab Sample ID: MB-1

Date Analyzed: 09/18/91 Time Analyzed: 2239

Matrix: (soil/water) SOIL Level:(low/med) LOW

Instrument ID: MS-E

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	BOOZQ4	EK4368	KU09EK4368	2350
02	BOOZQ5	EK4369	KU10EK4369	0024

COMMENTS: VBLK01
MS-E CASE: 0719

VBLK01

No detects

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9613424.1031

4A

VOLATILE METHOD BLANK SUMMARY

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: 0719 SAS No.: _____ SDG No.: EK4368

Lab File ID: KU13BLANK Lab Sample ID: MB-2

Date Analyzed: 09/19/91 Time Analyzed: 1410

Matrix: (soil/water) SOIL Level:(low/med) LOW

Instrument ID: MS-E

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	BOOZR1	EK4375	KU14EK4375	1510
02	BOOZR2	EK4376	KU15EK4376	1552
03	BOOZR4	EK4378	KU17EK4378	1702
04	BOOZR6	EK4380	KU19EK4380	1810
05	BOOZR7	EK4381	KU20EK4381	1844
06	BOOZR8	EK4382	KU21EK4382	1917
07	BOOZR9	EK4383	KU22EK4383	2013
08	BOOZS0	EK4384	KU23EK4384	2050
09	BOOZS1	EK4385	KU24EK4385	2123
10	BOOZS2	EK4386	KU25EK4386	2157
11	BOOZS3	EK4387	KU26EK4387	2231
12	BOOZS4	EK4388	KU27EK4388	2304
13	BOOZS5	EK4389	KU28EK4389	2338

VBLK02

COMMENTS: VBLK02
MS-E CASE: 0719 Acetone 14 ug/kg

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9613424.1032

4A

VOLATILE METHOD BLANK SUMMARY

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: 0719 SAS No.: _____ SDG No.: EK4368

Lab File ID: KU32BLANK Lab Sample ID: MB-3

Date Analyzed: 09/20/91 Time Analyzed: 1225

Matrix: (soil/water) SOIL Level:(low/med) LOW

Instrument ID: MS-E

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	BOOZQ6	EK4370	KU35EK4370	1414
02	BOOZQ7	EK4371	KU36EK4371	1447
03	BOOZQ8	EK4372	KU37EK4372	1521
04	BOOZQ9	EK4373	KU38EK4373	1559
05	BOOZR0	EK4374	KU39EK4374	1632
06	BOOZR3	EK4377	KU40EK4377	1706
07	BOOZR5	EK4379	KU41EK4379	1740
08	BOOZS7	EK4390	KU33EK4390	1306
09	BOOZS8	EK4391	KU34EK4391	1340
10	BOOZR9MS	EK4392MS	KU42EK83MS	1814
11	BOOZR9MSD	EK4393MSD	KU43EK83MD	1848
12	BOOZS0MS	EK4394MS	KU44EK84MS	1921
13	BOOZS0MSD	EK4395MSD	KU45EK84MD	1955

VBLK03

COMMENTS: VBLK03
MS-E CASE: 0719 Acetone 20ug/kg

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FORM IV VOA 1/87 Rev.

9613424.1033

5A

VOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: 0719 SAS No.: _____ SDG No.: EK4368

Lab File ID: KU01BFB BFB Injection Date: 09/18/91

Instrument ID: MS-E BFB Injection Time: 1540

Matrix:(soil/water) SOIL Level:(low/med) LOW Column:(pack/cap) PACK

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	20.9
75	30.0 - 60.0% of mass 95	42.3
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	8.7
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	86.7
175	5.0 - 9.0% of mass 174	5.3 (6.1)1
176	Greater than 95.0%, but less than 101.0% of mass 174	86.4 (99.7)1
177	5.0 - 9.0% of mass 176	6.0 (7.0)2

1-Value is % mass 174 2-Value is % mass 176

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD020	VW710	KU03S20	09/18/91	1801
02	VSTD050	VW710	KU04S50	09/18/91	1839
03	VSTD100	VW710	KU05S100	09/18/91	2010
04	VSTD150	VW710	KU06S150	09/18/91	2049
05	VSTD200	VW710	KU07S200	09/18/91	2122
06	VBLK01	MB-1	KU08BLANK	09/18/91	2239
07	BOOZQ4	EK4368	KU09EK4368	09/18/91	2350
08	BOOZQ5	EK4369	KU10EK4369	09/19/91	0024

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FORM V VOA 1/87 Rev.

9613424.1034

5A

VOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: 0719 SAS No.: _____ SDG No.: EK4368

Lab File ID: KU11BFB BFB Injection Date: 09/19/91

Instrument ID: MS-E BFB Injection Time: 1200

Matrix:(soil/water) SOIL Level:(low/med) LOW Column:(pack/cap) PACK

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	20.9
75	30.0 - 60.0% of mass 95	42.2
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	8.5
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	94.3
175	5.0 - 9.0% of mass 174	6.4 (6.8)1
176	Greater than 95.0%, but less than 101.0% of mass 174	94.3 (100.0)1
177	5.0 - 9.0% of mass 176	6.5 (6.9)2

1-Value is % mass 174 2-Value is % mass 176

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD050	VW710	KU12S50	09/19/91	1232
02	VBLK02	MB-2	KU13BLANK	09/19/91	1410
03	BOOZR1	EK4375	KU14EK4375	09/19/91	1510
04	BOOZR2	EK4376	KU15EK4376	09/19/91	1552
05	BOOZR4	EK4378	KU17EK4378	09/19/91	1702
06	BOOZR6	EK4380	KU19EK4380	09/19/91	1810
07	BOOZR7	EK4381	KU20EK4381	09/19/91	1844
08	BOOZR8	EK4382	KU21EK4382	09/19/91	1917
09	BOOZR9	EK4383	KU22EK4383	09/19/91	2013
10	BOOZS0	EK4384	KU23EK4384	09/19/91	2050
11	BOOZS1	EK4385	KU24EK4385	09/19/91	2123
12	BOOZS2	EK4386	KU25EK4386	09/19/91	2157
13	BOOZS3	EK4387	KU26EK4387	09/19/91	2231
14	BOOZS4	EK4388	KU27EK4388	09/19/91	2304
15	BOOZS5	EK4389	KU28EK4389	09/19/91	2338

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9613424.1035

5A

VOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: 0719 SAS No.: _____ SDG No.: EK4368

Lab File ID: KU30BFB BFB Injection Date: 09/20/91

Instrument ID: MS-E BFB Injection Time: 1034

Matrix:(soil/water) SOIL Level:(low/med) LOW Column:(pack/cap) PACK

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	21.1
75	30.0 - 60.0% of mass 95	44.0
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	9.0
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	79.4
175	5.0 - 9.0% of mass 174	6.0 (7.5)1
176	Greater than 95.0%, but less than 101.0% of mass 174	78.3 (98.6)1
177	5.0 - 9.0% of mass 176	5.1 (6.5)2

1-Value is % mass 174 2-Value is % mass 176

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD050	VW710	KU31S50	09/20/91	1112
02	VBLK03	MB-3	KU32BLANK	09/20/91	1225
03	BOOZS7	EK4390	KU33EK4390	09/20/91	1306
04	BOOZS8	EK4391	KU34EK4391	09/20/91	1340
05	BOOZQ6	EK4370	KU35EK4370	09/20/91	1414
06	BOOZQ7	EK4371	KU36EK4371	09/20/91	1447
07	BOOZQ8	EK4372	KU37EK4372	09/20/91	1521
08	BOOZQ9	EK4373	KU38EK4373	09/20/91	1559
09	BOOZR0	EK4374	KU39EK4374	09/20/91	1632
10	BOOZR3	EK4377	KU40EK4377	09/20/91	1706
11	BOOZR5	EK4379	KU41EK4379	09/20/91	1740
12	BOOZR9MS	EK4392MS	KU42EK83MS	09/20/91	1814
13	BOOZR9MSD	EK4393MSD	KU43EK83MD	09/20/91	1848
14	BOOZS0MS	EK4394MS	KU44EK84MS	09/20/91	1921
15	BOOZS0MSD	EK4395MSD	KU45EK84MD	09/20/91	1955

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9613424.1036

8A

VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: 0719 SAS No.: _____ SDG No.: EK4368

Lab File ID (Standard): KU04S50 Date Analyzed: 09/18/91

Instrument ID: MS-E Time Analyzed: 1839

Matrix:(soil/water) SOIL Level:(low/med) LOW Column:(pack/cap) PACK

		IS1(BCM) AREA #	RT	IS2(DFB) AREA #	RT	IS3(CBZ) AREA #	RT
	12 HOUR STD	45300	6.80	184000	17.40	183000	21.90
	UPPER LIMIT	90600		368000		366000	
	LOWER LIMIT	22650		92000		91500	
	EPA SAMPLE NO.						
01	BOOZQ4	48100	6.75	192000	17.35	182000	21.90
02	BOOZQ5	41600	6.75	157000	17.35	141000	21.90
03	VBLK01	51500	6.75	198000	17.40	189000	21.95

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene

UPPER LIMIT = + 100% of internal standard area.
LOWER LIMIT = - 50% of internal standard area.

Column used to flag internal standard area values with an asterisk

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FORM VIII VOA

1/87 Rev.

9613424.1037

8A

VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: 0719 SAS No.: _____ SDG No.: EK4368

Lab File ID (Standard): KU12S50 Date Analyzed: 09/19/91

Instrument ID: MS-E Time Analyzed: 1232

Matrix:(soil/water) SOIL Level:(low/med) LOW Column:(pack/cap) PACK

		IS1(BCM) AREA #	RT	IS2(DFB) AREA #	RT	IS3(CBZ) AREA #	RT
	12 HOUR STD	43600	6.90	199000	17.40	199000	21.95
	UPPER LIMIT	87200		398000		398000	
	LOWER LIMIT	21800		99500		99500	
	EPA SAMPLE NO.						
01	BOOZR1	36700	6.75	155000	17.40	141000	21.95
02	BOOZR2	33700	7.10	128000	17.40	105000	21.95
03	BOOZR4	45600	6.75	188000	17.35	179000	21.90
04	BOOZR6	35400	6.80	160000	17.35	129000	21.90
05	BOOZR7	31700	6.80	121000	17.35	119000	21.90
06	BOOZR8	42000	6.75	167000	17.35	149000	21.90
07	BOOZR9	26700	6.75	111000	17.40	81600 *	21.95
08	BOOZS0	31200	7.20	95600 *	17.40	95400 *	21.95
09	BOOZS1	49600	6.75	206000	17.35	179000	21.90
10	BOOZS2	49700	6.75	212000	17.35	186000	21.90
11	BOOZS3	56100	6.80	253000	17.40	242000	21.95
12	BOOZS4	52000	6.80	231000	17.40	234000	21.95
13	BOOZS5	52500	6.75	223000	17.35	224000	21.90
14	VBLK02	39000	6.95	172000	17.45	167000	21.95

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene

UPPER LIMIT = + 100% of internal standard area.
LOWER LIMIT = - 50% of internal standard area.

Column used to flag internal standard area values with an asterisk

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FORM VIII VOA 1/87 Rev.

9613424.1038

8A

VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: 0719 SAS No.: _____ SDG No.: EK4368

Lab File ID (Standard): KU31S50 Date Analyzed: 09/20/91

Instrument ID: MS-E Time Analyzed: 1112

Matrix:(soil/water) SOIL Level:(low/med) LOW Column:(pack/cap) PACK

		IS1(BCM) AREA #	RT	IS2(DFB) AREA #	RT	IS3(CBZ) AREA #	RT
	12 HOUR STD	48800	6.65	224000	17.40	217000	21.95
	UPPER LIMIT	97600		448000		434000	
	LOWER LIMIT	24400		112000		108500	
	EPA SAMPLE NO.						
01	BOOZQ6	59600	6.80	269000	17.40	256000	21.95
02	BOOZQ7	59300	6.80	269000	17.40	259000	21.90
03	BOOZQ8	41300	6.80	182000	17.40	157000	21.95
04	BOOZQ9	55100	6.80	239000	17.40	212000	21.95
05	BOOZR0	61300	6.80	270000	17.40	259000	21.95
06	BOOZR3	53900	6.80	232000	17.40	207000	21.95
07	BOOZR5	62000	6.85	270000	17.40	270000	21.95
08	BOOZS7	52700	6.75	243000	17.35	240000	21.90
09	BOOZS8	53500	6.80	239000	17.40	238000	21.95
10	BOOZR9MS	39100	6.80	146000	17.40	109000	21.95
11	BOOZR9MSD	20500 *	6.80	61900 *	17.40	42000 *	21.95
12	BOOZS0MS	52400	6.80	219000	17.40	199000	21.95
13	BOOZS0MSD	52700	6.80	215000	17.35	194000	21.90
14	VBLK03	50000	6.70	231000	17.35	221000	21.90

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene

UPPER LIMIT = + 100% of internal standard area.
LOWER LIMIT = - 50% of internal standard area.

Column used to flag internal standard area values with an asterisk

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9613424.1039

IC-002

CC VBLK01
B0073Q4
Q5

INITIAL CALIBRATION DATA
VOLATILE HSL COMPOUNDS

Case No: 0719 Region: WHC Instrument ID: MS-E
Contractor: DATACHEM LABS Calibration Date: 09/11
Contract No: 3534C

Min AVE RF for SPCC is 0.300 (1) Max %RSD for CCC is 30

Laboratory ID	KU03S20	KU04S50	KU05S100	KU06S150	KU07S200			
Compound	RF(20)	RF(50)	RF(100)	RF(150)	RF(200)	AVE RF	% RSD	SPCC**
Chloromethane	1.158	1.134	1.285	1.331	1.232	1.228	6.8	* *
Bromomethane	1.869	1.722	1.899	1.793	1.437	1.744	10.6	
Vinyl Chloride	1.773	1.542	1.836	1.848	1.632	1.726	7.8	*
Chloroethane	0.877	0.777	0.921	0.909	0.804	0.858	7.5	
Methylene Chloride	1.728	1.500	1.657	1.584	1.484	1.591	6.5	
Acetone	0.709	0.775	0.707	0.600	0.546	0.667	13.8	
Carbon Disulfide	3.403	3.072	3.702	3.793	3.655	3.525	8.3	
Trichlorofluoromethane	4.646	4.012	4.555	4.383	4.074	4.334	6.5	
1,1-Dichloroethene	1.363	1.174	1.342	1.338	1.496	1.343	8.5	*
1,1-Dichloroethane	2.496	2.198	2.479	2.388	2.306	2.373	5.2	* *
1,2-Dichloroethene (total)	1.526	1.356	1.480	1.462	1.390	1.443	4.8	
Chloroform	3.456	3.130	3.520	3.460	3.261	3.365	4.9	*
1,2-Dichloroethane	2.433	2.297	2.422	2.375	2.157	2.337	4.9	
Iodomethane	1.160	1.038	1.102	3.279	2.925	1.901	58.1	
Acrolein	0.173	0.175	0.159	0.162	0.148	0.163	6.7	
Acrylonitrile	0.332	0.343	0.307	0.298	0.272	0.310	9.1	
2-Butanone	0.550	0.542	0.516	0.511	0.484	0.521	5.1	
1,1,1-Trichloroethane	0.761	0.721	0.785	0.704	0.734	0.741	4.3	
Carbon Tetrachloride	0.798	0.764	0.854	0.767	0.788	0.794	4.6	
Vinyl Acetate	0.481	0.543	0.515	0.495	0.524	0.512	4.8	
Bromodichloromethane	0.722	0.772	0.799	0.752	0.793	0.768	4.1	
1,2-Dichloropropane	0.286	0.298	0.300	0.277	0.295	0.291	3.3	*
cis-1,3-Dichloropropene	0.429	0.469	0.479	0.455	0.481	0.463	4.6	
Trichloroethene	0.553	0.513	0.549	0.497	0.529	0.528	4.5	
Dibromochloromethane	0.715	0.805	0.817	0.762	0.832	0.786	6.1	
1,1,2-Trichloroethane	0.345	0.361	0.338	0.314	0.337	0.339	5.0	
Benzene	0.772	0.763	0.799	0.749	0.821	0.781	3.7	
Trans-1,3-Dichloroproene	0.419	0.454	0.467	0.441	0.479	0.452	5.2	
2-Chloroethylvinylether	0.017	0.022	0.026	0.030	0.036	0.026	27.8	
Bromoform	0.587	0.644	0.655	0.707	0.672	0.653	6.7	* *
Dibromomethane	0.339	0.333	0.312	0.305	0.322	0.322	4.4	
Trans-1,4-dichloro-2-butene	0.066	0.072	0.073	0.086	0.095	0.078	15.1	
4-Methyl-2-Pentanone	0.362	0.367	0.342	0.342	0.363	0.355	3.4	
1,2,3-Trichloropropane	0.453	0.439	0.395	0.444	0.432	0.433	5.2	
2-Hexanone	0.273	0.272	0.246	0.249	0.258	0.260	4.8	
Tetrachloroethene	0.702	0.582	0.648	0.644	0.603	0.636	7.3	
1,1,2,2-Tetrachloroethane	0.623	0.641	0.620	0.643	0.637	0.633	1.7	* *
Ethyl methacrylate	0.462	0.441	0.432	0.462	0.457	0.451	3.0	
Toluene	1.058	0.972	1.019	1.002	0.991	1.008	3.2	*

Response Factor (number is the amount of ug/L)
AVE RF - Average Response Factor
%RSD - - Percent Relative Standard Deviation
CCC - - Calibration Check Compounds (*)
SPCC - - System Performance Check Compounds (**)
(1) - - Minimum AVE RF for Bromoform is 0.250

Form VI

9613424.1040

INITIAL CALIBRATION DATA
VOLATILE HSL COMPOUNDS

Case No: 0719 Region: WHC Instrument ID: MS-E
Contractor: DATACHEM LABS Calibration Date: 09/18/91
Contract No: 3534C

Min AVE RF for SPCC is 0.300 (1) Max %RSD for CCC is 30%

Laboratory ID	KU03S20	KU04S50	KU05S100	KU06S150	KU07S200			CCC*
Compound	RF(20)	RF(50)	RF(100)	RF(150)	RF(200)	AVE RF	% RSD	SPCC**
Chlorobenzene	1.145	1.024	1.058	1.024	0.986	1.047	5.7	* *
Ethylbenzene	0.488	0.429	0.460	0.441	0.439	0.451	5.2	*
Styrene	1.135	1.151	1.284	1.268	1.261	1.220	5.8	
Total Xylenes	0.579	0.565	0.613	0.580	0.574	0.582	3.1	

Response Factor (number is the amount of ug/L)
AVE RF - Average Response Factor
%RSD - - Percent Relative Standard Deviation
CCC - - Calibration Check Compounds (*)
SPCC - - System Performance Check Compounds (**)
(1) - - Minimum AVE RF for Bromoform is 0.250

Form VI

9613424.1041

CONTINUING CALIBRATION CHECK
VOLATILE HSL COMPOUNDS

Case No: 0719 Region: WHC
Contractor: DATACHEM LABS
Contract No: 3534C
Instrument ID: MS-E

Calibration Date: 09/18/91
Time: 18:39
Laboratory ID: KU04S50
Initial Cali. Date: 09/18/91

Minimum RF for SPCC is 0.300 (1) Maximum %D for CCC is 25%

Compound	AVE RF	RF(50)	% D	CCC	SPCC
Chloromethane	1.228	1.134	7.7		* *
Bromomethane	1.744	1.722	1.3		
Vinyl Chloride	1.726	1.542	10.7	*	
Chloroethane	0.858	0.777	9.4		
Methylene Chloride	1.591	1.500	5.7		
Acetone	0.667	0.775	-16.2		
Carbon Disulfide	3.525	3.072	12.9		
Trichlorofluoromethane	4.334	4.012	7.4		
1,1-Dichloroethene	1.343	1.174	12.6	*	
1,1-Dichloroethane	2.373	2.198	7.4		* *
1,2-Dichloroethene (total)	1.443	1.356	6.0		
Chloroform	3.365	3.130	7.0	*	
1,2-Dichloroethane	2.337	2.297	1.7		
Iodomethane	1.901	1.038	45.4		
Acrolein	0.163	0.175	-7.4		
Acrylonitrile	0.310	0.343	-10.6		
2-Butanone	0.521	0.542	-4.0		
1,1,1-Trichloroethane	0.741	0.721	2.7		
Carbon Tetrachloride	0.794	0.764	3.8		
Vinyl Acetate	0.512	0.543	-6.1		
Bromodichloromethane	0.768	0.772	-0.5		
1,2-Dichloropropane	0.291	0.298	-2.4	*	
cis-1,3-Dichloropropene	0.463	0.469	-1.3		
Trichloroethene	0.528	0.513	2.8		
Dibromochloromethane	0.786	0.805	-2.4		
1,1,2-Trichloroethane	0.339	0.361	-6.5		
Benzene	0.781	0.763	2.3		
Trans-1,3-Dichloroproene	0.452	0.454	-0.4		
2-Chloroethylvinylether	0.026	0.022	15.4		
Bromoform	0.653	0.644	1.4		* *
Dibromomethane	0.322	0.333	-3.4		
Trans-1,4-dichloro-2-butene	0.078	0.072	7.7		
4-Methyl-2-Pentanone	0.355	0.367	-3.4		
1,2,3-Trichloropropane	0.433	0.439	-1.4		
2-Hexanone	0.260	0.272	-4.6		
Tetrachloroethene	0.636	0.582	8.5		
1,1,2,2-Tetrachloroethane	0.633	0.641	-1.3		* *
Ethyl methacrylate	0.451	0.441	2.2		
Toluene	1.008	0.972	3.6	*	

comparing against daily

RF(50) - Response Factor from daily standard file at 50 ug/l
AVE RF - Average Response Factor from initial calibration Form VI
%D - - - Percent Difference
CCC - - Calibration Check Compounds (*)
SPCC - - System Performance Check Compounds (**)
(1) - - Mininum RF for Bromoform is 0.250

9613424.1042

CONTINUING CALIBRATION CHECK
VOLATILE HSL COMPOUNDS

Case No: 0719 Region: WHC Calibration Date: 09/18/91
Contractor: DATACHEM LABS Time: 18:39
Contract No: 3534C Laboratory ID: KU04S50
Instrument ID: MS-E Initial Cali. Date: 09/18/91

Minimum RF for SPCC is 0.300 (1) Maximum %D for CCC is 25%

Compound	AVE RF	RF(50)	% D	CCC	SPCC
Chlorobenzene	1.047	1.024	2.2		* *
Ethylbenzene	0.451	0.429	4.9	*	
Styrene	1.220	1.151	5.7		
Total Xylenes	0.582	0.565	2.9		

RF(50) - Response Factor from daily standard file at 50 ug/l
AVE RF - Average Response Factor from initial calibration Form VI
%D - - - Percent Difference
CCC - - Calibration Check Compounds (*)
SPCC - - System Performance Check Compounds (**)
(1) - - Mininum RF for Bromoform is 0.250

Form VII

9613424.1043

CONTINUING CALIBRATION CHECK
VOLATILE HSL COMPOUNDS

Case No: 0719 Region: WHC
Contractor: DATACHEM LABS
Contract No: 3534C
Instrument ID: MS-E

Calibration Date: 09/19/91
Time: 12:32
Laboratory ID: KU12S50
Initial Cali. Date: 09/18/91

Minimum RF for SPCC is 0.300 (1) Maximum %D for CCC is 25%

Compound	AVE RF	RF(50)	% D	CCC	SPCC
Chloromethane	1.228	1.112	9.4		* *
Bromomethane	1.744	2.020	-15.8		
Vinyl Chloride	1.726	1.767	-2.4	*	
Chloroethane	0.858	0.906	-5.6		
Methylene Chloride	1.591	1.697	-6.7		
Acetone	0.667	0.759	-13.8		
Carbon Disulfide	3.525	3.694	-4.8		
Trichlorofluoromethane	4.334	4.776	-10.2		
1,1-Dichloroethene	1.343	1.284	4.4	*	
1,1-Dichloroethane	2.373	2.387	-0.6		
1,2-Dichloroethene (total)	1.443	1.478	-2.4		
Chloroform	3.365	3.462	-2.9	*	
1,2-Dichloroethane	2.337	2.489	-6.5		
Iodomethane	1.901	3.275	-72.3		
Acrolein	0.163	0.179	-9.8		
Acrylonitrile	0.310	0.331	-6.8		
2-Butanone	0.521	0.498	4.4		
1,1,1-Trichloroethane	0.741	0.730	1.5		
Carbon Tetrachloride	0.794	0.792	0.3		
Vinyl Acetate	0.512	0.471	8.0		
Bromodichloromethane	0.768	0.763	0.7		
1,2-Dichloropropane	0.291	0.282	3.1	*	
cis-1,3-Dichloropropene	0.463	0.452	2.4		
Trichloroethene	0.528	0.515	2.5		
Dibromochloromethane	0.786	0.761	3.2		
1,1,2-Trichloroethane	0.339	0.342	-0.9		
Benzene	0.781	0.759	2.8		
Trans-1,3-Dichloroproene	0.452	0.444	1.8		
2-Chloroethylvinylether	0.026	0.027	-3.8		
Bromoform	0.653	0.596	8.7		* *
Dibromomethane	0.322	0.327	-1.6		
Trans-1,4-dichloro-2-butene	0.078	0.083	-6.4		
4-Methyl-2-Pentanone	0.355	0.309	13.0		
1,2,3-Trichloropropane	0.433	0.435	-0.5		
2-Hexanone	0.260	0.226	13.1		
Tetrachloroethene	0.636	0.595	6.4		
1,1,2,2-Tetrachloroethane	0.633	0.589	7.0		* *
Ethyl methacrylate	0.451	0.436	3.3		
Toluene	1.008	1.017	-0.9	*	

VBLK02
B002 R1 S0
R2 S1
~~R3~~ S2
R4 S3
R6 S4
R7 S5
R8
R9

RF(50) - Response Factor from daily standard file at 50 ug/l
AVE RF - Average Response Factor from initial calibration Form VI
%D - - - Percent Difference
CCC - - Calibration Check Compounds (*)
SPCC - - System Performance Check Compounds (**)
(1) - - Mininum RF for Bromoform is 0.250

9613424.1044

CONTINUING CALIBRATION CHECK
VOLATILE HSL COMPOUNDS

Case No: 0719 Region: WHC Calibration Date: 09/19/91
Contractor: DATACHEM LABS Time: 12:32
Contract No: 3534C Laboratory ID: KU12S50
Instrument ID: MS-E Initial Cali. Date: 09/18/91

Minimum RF for SPCC is 0.300 (1) Maximum %D for CCC is 25%

Compound	AVE RF	RF(50)	% D	CCC	SPCC
Chlorobenzene	1.047	1.040	0.7		* *
Ethylbenzene	0.451	0.446	1.1	*	
Styrene	1.220	1.193	2.2		
Total Xylenes	0.582	0.613	-5.3		

RF(50) - Response Factor from daily standard file at 50 ug/l
AVE RF - Average Response Factor from initial calibration Form VI
%D - - - Percent Difference
CCC - - Calibration Check Compounds (*)
SPCC - - System Performance Check Compounds (**)
(1) - - Mininum RF for Bromoform is 0.250

Form VII

9613424.1045

CONTINUING CALIBRATION CHECK
VOLATILE HSL COMPOUNDS

Case No: 0719 Region: WHC Calibration Date: 09/20/91
Contractor: DATACHEM LABS Time: 11:12
Contract No: 3534C Laboratory ID: KU31S50
Instrument ID: MS-E Initial Cali. Date: 09/18/91

Minimum RF for SPCC is 0.300 (1) Maximum %D for CCC is 25%

Compound	AVE RF	RF(50)	% D	CCC	SPCC
Chloromethane	1.228	1.367	-11.3		* *
Bromomethane	1.744	1.964	-12.6		
Vinyl Chloride	1.726	1.780	-3.1	*	
Chloroethane	0.858	0.929	-8.3		
Methylene Chloride	1.591	1.712	-7.6		
Acetone	0.667	0.687	-3.0		
Carbon Disulfide	3.525	3.605	-2.3		
Trichlorofluoromethane	4.334	4.588	-5.9		
1,1-Dichloroethene	1.343	1.417	-5.5	*	
1,1-Dichloroethane	2.373	2.646	-11.5		* *
1,2-Dichloroethene (total)	1.443	1.615	-11.9		
Chloroform	3.365	3.720	-10.5	*	VBLK03
1,2-Dichloroethane	2.337	2.528	-8.2		B00237
Iodomethane	1.901	3.216	-69.2		S8
Acrolein	0.163	0.139	14.7		Q6
Acrylonitrile	0.310	0.257	17.1		Q7
2-Butanone	0.521	0.457	12.3		Q8
1,1,1-Trichloroethane	0.741	0.741	0.0		Q9
Carbon Tetrachloride	0.794	0.757	4.7		R0
Vinyl Acetate	0.512	0.478	6.6		R3
Bromodichloromethane	0.768	0.757	1.4		R5
1,2-Dichloropropane	0.291	0.313	-7.6	*	MS/MSD
cis-1,3-Dichloropropene	0.463	0.471	-1.7		
Trichloroethene	0.528	0.511	3.2		
Dibromochloromethane	0.786	0.682	13.2		
1,1,2-Trichloroethane	0.339	0.333	1.8		
Benzene	0.781	0.839	-7.4		
Trans-1,3-Dichloroproene	0.452	0.445	1.5		
2-Chloroethylvinylether	0.026	0.023	11.5		
Bromoform	0.653	0.477	27.0		* *
Dibromomethane	0.322	0.332	-3.1		
Trans-1,4-dichloro-2-butene	0.078	0.070	10.3		
4-Methyl-2-Pentanone	0.355	0.281	20.8		
1,2,3-Trichloropropane	0.433	0.416	3.9		
2-Hexanone	0.260	0.196	24.6		
Tetrachloroethene	0.636	0.576	9.4		
1,1,2,2-Tetrachloroethane	0.633	0.563	11.1		* *
Ethyl methacrylate	0.451	0.431	4.4		
Toluene	1.008	1.099	-9.0	*	

RF(50) - Response Factor from daily standard file at 50 ug/l
AVE RF - Average Response Factor from initial calibration Form VI
%D - - - Percent Difference
CCC - - Calibration Check Compounds (*)
SPCC - - System Performance Check Compounds (**)
(1) - - Mininum RF for Bromoform is 0.250

9613424.1046

CONTINUING CALIBRATION CHECK
VOLATILE HSL COMPOUNDS

Case No: 0719 Region: WHC
Contractor: DATACHEM LABS
Contract No: 3534C
Instrument ID: MS-E

Calibration Date: 09/20/91
Time: 11:12
Laboratory ID: KU31S50
Initial Cali. Date: 09/18/91

Minimum RF for SPCC is 0.300 (1) Maximum %D for CCC is 25%

Compound	AVE RF	RF(50)	% D	CCC	SPCC
Chlorobenzene	1.047	1.091	-4.2		* *
Ethylbenzene	0.451	0.472	-4.7	*	
Styrene	1.220	1.184	3.0		
Total Xylenes	0.582	0.621	-6.7		

RF(50) - Response Factor from daily standard file at 50 ug/l
AVE RF - Average Response Factor from initial calibration Form VI
%D - - - Percent Difference
CCC - - Calibration Check Compounds (*)
SPCC - - System Performance Check Compounds (**)
(1) - - Mininum RF for Bromoform is 0.250

Form VII

9613424.1047

Sample Number
VBLK01

VOLATILE ORGANICS ANALYSIS DATA SHEET

(Page 1)

Laboratory Name: DATACHEM LABS
Case No: 0719
Lab Sample ID No: MB-1
QC Report No:
Sample Matrix: SOIL
Contract No: 3534C
Data Release Authorized By:
Date Sample Received:

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared:
Date Analyzed: 09/18/91
Conc/Dil Factor: 1. pH
Percent Moisture: (Not Decanted)

CAS Number		UG/KG		CAS Number		UG/KG	
74-87-3	Chloromethane	3	U	10061-01-5	cis-1,3-Dichloropropene	2	U
74-83-9	Bromomethane	2	U	79-01-6	Trichloroethene	1	U
75-01-4	Vinyl Chloride	3	U	124-48-1	Dibromochloromethane	1	U
75-00-3	Chloroethane	3	U	79-00-5	1,1,2-Trichloroethane	2	U
75-09-2	Methylene Chloride	3	U	71-43-2	Benzene	1	U
67-64-1	Acetone	3	U	10061-02-6	Trans-1,3-Dichloroproene	2	U
75-15-0	Carbon Disulfide	2	U	110-75-8	2-Chloroethylvinylether	2	U
75-69-4	Trichlorofluoromethane	2	U	75-25-2	Bromoform	1	U
75-35-4	1,1-Dichloroethene	2	U	74-95-3	Dibromomethane	0.8	U
75-35-3	1,1-Dichloroethane	2	U	764-41-0	Trans-1,4-dichloro-2-butene	1	U
540-59-0	1,2-Dichloroethene (total)	2	U	108-10-1	4-Methyl-2-Pentanone	2	U
67-66-3	Chloroform	2	U	96-18-4	1,2,3-Trichloropropane	1	U
107-06-2	1,2-Dichloroethane	1	U	591-78-6	2-Hexanone	2	U
74-88-4	Iodomethane	2	U	127-18-4	Tetrachloroethene	1	U
107-02-8	Acrolein	2	U	79-34-5	1,1,2,2-Tetrachloroethane	1	U
107-13-1	Acrylonitrile	2	U	97-63-2	Ethyl methacrylate	1	U
78-93-3	2-Butanone	2	U	108-88-3	Toluene	1	U
71-55-6	1,1,1-Trichloroethane	1	U	108-90-7	Chlorobenzene	1	U
56-23-5	Carbon Tetrachloride	1	U	100-41-4	Ethylbenzene	1	U
108-05-4	Vinyl Acetate	3	U	100-42-5	Styrene	2	U
75-27-4	Bromodichloromethane	1	U	1330-20-7	Total Xylenes	0.9	U
78-87-5	1,2-Dichloropropane	1	U				

< - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

9613424.1048

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK01

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: 0719 SAS No.: _____ SDG No.: EK4368

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

Sample wt/vol: _____ (g/mL) G Lab File ID: KU08BLANK

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

% Moisture: not dec. _____ Date Analyzed: 09/18/91

Column (pack/cap) PACK Dilution Factor: 1

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

9613424.1049

Sample Number
VBLK02

VOLATILE ORGANICS ANALYSIS DATA SHEET

(Page 1)

Laboratory Name: DATACHEM LABS
Case No: 0719
Lab Sample ID No: MB-2
QC Report No:
Sample Matrix: SOIL
Contract No: 3534C
Data Release Authorized By:
Date Sample Received:

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared:
Date Analyzed: 09/19/91
Conc/Dil Factor: 1. pH
Percent Moisture: (Not Decanted)

CAS Number		UG/KG		CAS Number		UG/KG	
74-87-3	Chloromethane	3	U	10061-01-5	cis-1,3-Dichloropropene	2	U
74-83-9	Bromomethane	2	U	79-01-6	Trichloroethene	1	U
75-01-4	Vinyl Chloride	3	U	124-48-1	Dibromochloromethane	1	U
75-00-3	Chloroethane	3	U	79-00-5	1,1,2-Trichloroethane	2	U
75-09-2	Methylene Chloride	3	U	71-43-2	Benzene	1	U
[redacted]				10061-02-6	Trans-1,3-Dichloroproene	2	U
75-15-0	Carbon Disulfide	2	U	110-75-8	2-Chloroethylvinylether	2	U
75-69-4	Trichlorofluoromethane	2	U	75-25-2	Bromoform	1	U
75-35-4	1,1-Dichloroethene	2	U	74-95-3	Dibromomethane	0.8	U
75-35-3	1,1-Dichloroethane	2	U	764-41-0	Trans-1,4-dichloro-2-butene	1	U
540-59-0	1,2-Dichloroethene (total)	2	U	108-10-1	4-Methyl-2-Pentanone	2	U
67-66-3	Chloroform	2	U	96-18-4	1,2,3-Trichloropropane	1	U
107-06-2	1,2-Dichloroethane	1	U	591-78-6	2-Hexanone	2	U
74-88-4	Iodomethane	2	U	127-18-4	Tetrachloroethene	1	U
107-02-8	Acrolein	2	U	79-34-5	1,1,2,2-Tetrachloroethane	1	U
107-13-1	Acrylonitrile	2	U	97-63-2	Ethyl methacrylate	1	U
78-93-3	2-Butanone	2	U	108-88-3	Toluene	1	U
71-55-6	1,1,1-Trichloroethane	1	U	108-90-7	Chlorobenzene	1	U
56-23-5	Carbon Tetrachloride	1	U	100-41-4	Ethylbenzene	1	U
108-05-4	Vinyl Acetate	3	U	100-42-5	Styrene	2	U
75-27-4	Bromodichloromethane	1	U	1330-20-7	Total Xylenes	0.9	U
78-87-5	1,2-Dichloropropane	1	U				

< - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

9613424.1050

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK02

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: 0719 SAS No.: _____ SDG No.: EK4368

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

Sample wt/vol: _____ (g/mL) G Lab File ID: KU13BLANK

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

% Moisture: not dec. _____ Date Analyzed: 09/19/91

Column (pack/cap) PACK Dilution Factor: 1

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

9613424.1051

Sample Number
VBLK03

VOLATILE ORGANICS ANALYSIS DATA SHEET

(Page 1)

Laboratory Name: DATACHEM LABS
Case No: 0719
Lab Sample ID No: MB-3
QC Report No:
Sample Matrix: SOIL
Contract No: 3534C
Data Release Authorized By:
Date Sample Received:

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared:
Date Analyzed: 09/20/91
Conc/Dil Factor: 1. pH
Percent Moisture: (Not Decanted)

CAS Number		UG/KG		CAS Number		UG/KG	
74-87-3	Chloromethane	3	U	10061-01-5	cis-1,3-Dichloropropene	2	U
74-83-9	Bromomethane	2	U	79-01-6	Trichloroethene	1	U
75-01-4	Vinyl Chloride	3	U	124-48-1	Dibromochloromethane	1	U
75-00-3	Chloroethane	3	U	79-00-5	1,1,2-Trichloroethane	2	U
75-09-2	Methylene Chloride	3	U	71-43-2	Benzene	1	U
67-64-1	Acetone	20		10061-02-6	Trans-1,3-Dichloroproene	2	U
75-15-0	Carbon Disulfide	2	U	110-75-8	2-Chloroethylvinylether	2	U
75-69-4	Trichlorofluoromethane	2	U	75-25-2	Bromoform	1	U
75-35-4	1,1-Dichloroethene	2	U	74-95-3	Dibromomethane	0.8	U
75-35-3	1,1-Dichloroethane	2	U	764-41-0	Trans-1,4-dichloro-2-butene	1	U
540-59-0	1,2-Dichloroethene (total)	2	U	108-10-1	4-Methyl-2-Pentanone	2	U
67-66-3	Chloroform	2	U	96-18-4	1,2,3-Trichloropropane	1	U
107-06-2	1,2-Dichloroethane	1	U	591-78-6	2-Hexanone	2	U
74-88-4	Iodomethane	2	U	127-18-4	Tetrachloroethene	1	U
107-02-8	Acrolein	2	U	79-34-5	1,1,2,2-Tetrachloroethane	1	U
107-13-1	Acrylonitrile	2	U	97-63-2	Ethyl methacrylate	1	U
78-93-3	2-Butanone	2	U	108-88-3	Toluene	1	U
71-55-6	1,1,1-Trichloroethane	1	U	108-90-7	Chlorobenzene	1	U
56-23-5	Carbon Tetrachloride	1	U	100-41-4	Ethylbenzene	1	U
108-05-4	Vinyl Acetate	3	U	100-42-5	Styrene	2	U
75-27-4	Bromodichloromethane	1	U	1330-20-7	Total Xylenes	0.9	U
78-87-5	1,2-Dichloropropane	1	U				

< - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

9613424.1052

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK03

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: 0719 SAS No.: _____ SDG No.: EK4368

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

Sample wt/vol: _____ (g/mL) G Lab File ID: KU32BLANK

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

% Moisture: not dec. _____ Date Analyzed: 09/20/91

Column (pack/cap) PACK Dilution Factor: 1

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

9613424.1053

Sample Number
BOOZR9MS

VOLATILE ORGANICS ANALYSIS DATA SHEET
(Page 1)

Laboratory Name: DATACHEM LABS
Case No: 0719
Lab Sample ID No: EK4392MS
QC Report No:
Sample Matrix: SOIL
Contract No: 3534C
Data Release Authorized By:
Date Sample Received: 09/13/91

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared:
Date Analyzed: 09/20/91
Conc/Dil Factor: 1. pH
Percent Moisture: (Not Decanted) 1.0

CAS Number		UG/KG		CAS Number		UG/KG	
74-87-3	Chloromethane	3	U	10061-01-5	cis-1,3-Dichloropropene	2	U
74-83-9	Bromomethane	2	U	79-01-6	Trichloroethene	44	
75-01-4	Vinyl Chloride	3	U	124-48-1	Dibromochloromethane	1	U
75-00-3	Chloroethane	3	U	79-00-5	1,1,2-Trichloroethane	2	U
75-09-2	Methylene Chloride	3	U	71-43-2	Benzene	56	
67-64-1	Acetone	120	B	10061-02-6	Trans-1,3-Dichloroproene	2	U
75-15-0	Carbon Disulfide	2	U	110-75-8	2-Chloroethylvinylether	2	U
75-69-4	Trichlorofluoromethane	2	U	75-25-2	Bromoform	1	U
75-35-4	1,1-Dichloroethene	48		74-95-3	Dibromomethane	0.8	U
75-35-3	1,1-Dichloroethane	2	U	764-41-0	Trans-1,4-dichloro-2-butene	1	U
540-59-0	1,2-Dichloroethene (total)	2	U	108-10-1	4-Methyl-2-Pentanone	3	U
67-66-3	Chloroform	2	U	96-18-4	1,2,3-Trichloropropane	1	U
107-06-2	1,2-Dichloroethane	1	U	591-78-6	2-Hexanone	7	
74-88-4	Iodomethane	2	U	127-18-4	Tetrachloroethene	1	U
107-02-8	Acrolein	2	U	79-34-5	1,1,2,2-Tetrachloroethane	1	U
107-13-1	Acrylonitrile	2	U	97-63-2	Ethyl methacrylate	1	U
78-93-3	2-Butanone	36		108-88-3	Toluene	58	
71-55-6	1,1,1-Trichloroethane	1	U	108-90-7	Chlorobenzene	53	
56-23-5	Carbon Tetrachloride	1	U	100-41-4	Ethylbenzene	1	U
108-05-4	Vinyl Acetate	3	U	100-42-5	Styrene	2	U
75-27-4	Bromodichloromethane	1	U	1330-20-7	Total Xylenes	0.9	U
78-87-5	1,2-Dichloropropane	1	U				

B - Compound was detected in the QC blank.
< - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

9613424.1054

Sample Number
BOOZS0MS

VOLATILE ORGANICS ANALYSIS DATA SHEET
(Page 1)

Laboratory Name: DATACHEM LABS
Lab Sample ID No: EK4394MS
Sample Matrix: SOIL
Data Release Authorized By:

Case No: 0719
QC Report No:
Contract No: 3534C
Date Sample Received: 09/13/91

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared:
Date Analyzed: 09/20/91
Conc/Dil Factor: 1. pH
Percent Moisture: (Not Decanted) 2.0

CAS Number		UG/KG		CAS Number		UG/KG	
74-87-3	Chloromethane	3	U	10061-01-5	cis-1,3-Dichloropropene	2	U
74-83-9	Bromomethane	2	U	79-01-6	Trichloroethene	47	
75-01-4	Vinyl Chloride	3	U	124-48-1	Dibromochloromethane	1	U
75-00-3	Chloroethane	3	U	79-00-5	1,1,2-Trichloroethane	2	U
75-09-2	Methylene Chloride	3	U	71-43-2	Benzene	58	
67-64-1	Acetone	17	B	10061-02-6	Trans-1,3-Dichloroproene	2	U
75-15-0	Carbon Disulfide	2	U	110-75-8	2-Chloroethylvinylether	2	U
75-69-4	Trichlorofluoromethane	2	U	75-25-2	Bromoform	1	U
75-35-4	1,1-Dichloroethene	50		74-95-3	Dibromomethane	0.8	U
75-35-3	1,1-Dichloroethane	2	U	764-41-0	Trans-1,4-dichloro-2-butene	1	U
540-59-0	1,2-Dichloroethene (total)	2	U	108-10-1	4-Methyl-2-Pentanone	3	U
67-66-3	Chloroform	2	U	96-18-4	1,2,3-Trichloropropane	1	U
107-06-2	1,2-Dichloroethane	1	U	591-78-6	2-Hexanone	2	U
74-88-4	Iodomethane	2	U	127-18-4	Tetrachloroethene	1	U
107-02-8	Acrolein	2	U	79-34-5	1,1,2,2-Tetrachloroethane	1	U
107-13-1	Acrylonitrile	2	U	97-63-2	Ethyl methacrylate	1	U
78-93-3	2-Butanone	2	U	108-88-3	Toluene	57	
71-55-6	1,1,1-Trichloroethane	1	U	108-90-7	Chlorobenzene	55	
56-23-5	Carbon Tetrachloride	1	U	100-41-4	Ethylbenzene	1	U
108-05-4	Vinyl Acetate	3	U	100-42-5	Styrene	2	U
75-27-4	Bromodichloromethane	1	U	1330-20-7	Total Xylenes	0.9	U
78-87-5	1,2-Dichloropropane	1	U				

B - Compound was detected in the QC blank.
< - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

9613424.1055

Sample Number
BOOZR9MSD

VOLATILE ORGANICS ANALYSIS DATA SHEET
(Page 1)

Laboratory Name: DATACHEM LABS
Lab Sample ID No: EK4393MSD
Sample Matrix: SOIL
Data Release Authorized By:

Case No: 0719
QC Report No:
Contract No: 3534C
Date Sample Received: 09/13/91

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared:
Date Analyzed: 09/20/91
Conc/Dil Factor: 1. pH
Percent Moisture: (Not Decanted) 1.0

CAS Number		UG/KG		CAS Number		UG/KG	
74-87-3	Chloromethane	3	U	10061-01-5	cis-1,3-Dichloropropene	2	U
74-83-9	Bromomethane	2	U	79-01-6	Trichloroethene	40	
75-01-4	Vinyl Chloride	3	U	124-48-1	Dibromochloromethane	1	U
75-00-3	Chloroethane	3	U	79-00-5	1,1,2-Trichloroethane	2	U
75-09-2	Methylene Chloride	3	U	71-43-2	Benzene	58	
67-64-1	Acetone	400	B	10061-02-6	Trans-1,3-Dichloroproene	2	U
75-15-0	Carbon Disulfide	2	U	110-75-8	2-Chloroethylvinylether	2	U
75-69-4	Trichlorofluoromethane	2	U	75-25-2	Bromoform	1	U
75-35-4	1,1-Dichloroethene	39		74-95-3	Dibromomethane	0.8	U
75-35-3	1,1-Dichloroethane	2	U	764-41-0	Trans-1,4-dichloro-2-butene	1	U
540-59-0	1,2-Dichloroethene (total)	2	U	108-10-1	4-Methyl-2-Pentanone	3	U
67-66-3	Chloroform	2	U	96-18-4	1,2,3-Trichloropropane	1	U
107-06-2	1,2-Dichloroethane	1	U	591-78-6	2-Hexanone	36	
74-88-4	Iodomethane	2	U	127-18-4	Tetrachloroethene	1	U
107-02-8	Acrolein	2	U	79-34-5	1,1,2,2-Tetrachloroethane	1	U
107-13-1	Acrylonitrile	2	U	97-63-2	Ethyl methacrylate	1	U
78-93-3	2-Butanone	130		108-88-3	Toluene	60	
71-55-6	1,1,1-Trichloroethane	1	U	108-90-7	Chlorobenzene	56	
56-23-5	Carbon Tetrachloride	1	U	100-41-4	Ethylbenzene	1	U
108-05-4	Vinyl Acetate	3	U	100-42-5	Styrene	2	U
75-27-4	Bromodichloromethane	1	U	1330-20-7	Total Xylenes	0.9	U
78-87-5	1,2-Dichloropropane	1	U				

B - Compound was detected in the QC blank.
< - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

9613424.1056

Sample Number
BOOZS0MSD

VOLATILE ORGANICS ANALYSIS DATA SHEET

(Page 1)

Laboratory Name: DATACHEM LABS
Case No: 0719
Lab Sample ID No: EK4395MSD
QC Report No:
Sample Matrix: SOIL
Contract No: 3534C
Data Release Authorized By:
Date Sample Received: 09/13/91

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared:
Date Analyzed: 09/20/91
Conc/Dil Factor: 1. pH
Percent Moisture: (Not Decanted) 2.0

CAS Number		UG/KG		CAS Number		UG/KG	
74-87-3	Chloromethane	3	U	10061-01-5	cis-1,3-Dichloropropene	2	U
74-83-9	Bromomethane	2	U	79-01-6	Trichloroethene	46	
75-01-4	Vinyl Chloride	3	U	124-48-1	Dibromochloromethane	1	U
75-00-3	Chloroethane	3	U	79-00-5	1,1,2-Trichloroethane	2	U
75-09-2	Methylene Chloride	3	U	71-43-2	Benzene	55	
67-64-1	Acetone	14	B	10061-02-6	Trans-1,3-Dichloroproene	2	U
75-15-0	Carbon Disulfide	2	U	110-75-8	2-Chloroethylvinylether	2	U
75-69-4	Trichlorofluoromethane	2	U	75-25-2	Bromoform	1	U
75-35-4	1,1-Dichloroethene	48		74-95-3	Dibromomethane	0.8	U
75-35-3	1,1-Dichloroethane	2	U	764-41-0	Trans-1,4-dichloro-2-butene	1	U
540-59-0	1,2-Dichloroethene (total)	2	U	108-10-1	4-Methyl-2-Pentanone	3	U
67-66-3	Chloroform	2	U	96-18-4	1,2,3-Trichloropropane	1	U
107-06-2	1,2-Dichloroethane	1	U	591-78-6	2-Hexanone	2	U
74-88-4	Iodomethane	2	U	127-18-4	Tetrachloroethene	1	U
107-02-8	Acrolein	2	U	79-34-5	1,1,2,2-Tetrachloroethane	1	U
107-13-1	Acrylonitrile	2	U	97-63-2	Ethyl methacrylate	1	U
78-93-3	2-Butanone	2	U	108-88-3	Toluene	56	
71-55-6	1,1,1-Trichloroethane	1	U	108-90-7	Chlorobenzene	53	
56-23-5	Carbon Tetrachloride	1	U	100-41-4	Ethylbenzene	1	U
108-05-4	Vinyl Acetate	3	U	100-42-5	Styrene	2	U
75-27-4	Bromodichloromethane	1	U	1330-20-7	Total Xylenes	0.9	U
78-87-5	1,2-Dichloropropane	1	U				

B - Compound was detected in the QC blank.
< - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

9613424.1057

ANALYTICAL REPORT FOR SAMPLE No. EK4370

NON-TARGET ANALYTE RESULTS
Additional Semi-Volatiles

Field Sample ID BOOZO6

Cas. No	COMPOUND	Scan Number	Results ug/Kg	Footnotes
	********NO UNKNOWNS FOUND**********			

BB
3/19/93

FOOTNOTES

- B The analyte was found in the method blank. The reported results have been adjusted for the quantity found in the blank.
- E The reported concentration is an estimate only. The response factor was assumed to be 1.000 relative to an internal standard.
- J Indicates an estimated concentration below the Method Detection Limit.
- K The isomer is unknown.
- N Analytical standards were not analyzed for this compound.
- U Not detected.
- W The identification is tentative or closely related to the compound.

ANALYTICAL REPORT FOR SAMPLE No. EK4371

NON-TARGET ANALYTE RESULTS
Additional Semi-Volatiles

Field Sample ID BOOZO7

Cas. No	COMPOUND	Scan Number	Results ug/Kg	Footnotes
	NITROGEN CONTAINING PNA MW=167	1433	2700	NEW
	PNA, MW=192	1478	1800	NEW
	PNA, MW=192	1482	2400	NEW
	PNA, MW=190	1497	4600	NEW
	PNA KETONE, MW=208	1529	4300	NEW
	PNA, MW=216	1682	2800	NEW
	PNA KETONE, MW=230	1764	2400	NEW
	PNA, MW=234	1782	2200	NEW
	PNA KETONE, MW=230	1797	2400	NEW
	PNA, MW=252	2111	4400	NEW

AB
3/19/93

FOOTNOTES

B The analyte was found in the method blank. The reported results have been adjusted for the quantity found in the blank.

E The reported concentration is an estimate only. The response factor was assumed to be 1.000 relative to an internal standard.

J Indicates an estimated concentration below the Method Detection Limit.

K The isomer is unknown.

N Analytical standards were not analyzed for this compound.

U Not detected.

W The identification is tentative or closely related to the compound.

9613424.1059

ANALYTICAL REPORT FOR SAMPLE No. EK4372

NON-TARGET ANALYTE RESULTS
Additional Semi-Volatiles

Field Sample ID BOOZO8

Cas. No	COMPOUND	Scan Number	Results ug/Kg	Footnotes
	UNK OXY H.C.	1416	30000	NEW
	UNK POLYCYCLIC H.C.	1422	24000	NEW
	UNK POLYCYCLIC H.C.	1444	24000	NEW
	UNK OXY H.C.	1456	49000	NEW
	UNK POLYCYCLIC H.C.	1473	26000	NEW
	UNK OXY H.C.	1500	26000	NEW
	UNK OXY H.C.	1510	23000	NEW
	UNK POLYCYCLIC H.C.	1520	26000	NEW
	UNK OXY H.C.	1530	23000	NEW
	UNK CYCLIC H.C.	1547	36000	NEW

MB
3/19/93

FOOTNOTES

B The analyte was found in the method blank. The reported results have been adjusted for the quantity found in the blank.
E The reported concentration is an estimate only. The response factor was assumed to be 1.000 relative to an internal standard.
J Indicates an estimated concentration below the Method Detection Limit.
K The isomer is unknown.
N Analytical standards were not analyzed for this compound.
U Not detected.
W The identification is tentative or closely related to the compound.

9613424.1060

ANALYTICAL REPORT FOR SAMPLE No. EK4373

NON-TARGET ANALYTE RESULTS
Additional Semi-Volatiles

Field Sample ID B00Z09

Cas. No	COMPOUND	Scan Number	Results ug/Kg	Footnotes
	NITROGEN CONTAINING PNA, MW=167	1434	11000	NEW
	UNK BICYCLIC H.C.	1445	16000	NEW
	PNA, MW=192	1478	8200	NEW
	PNA, MW=192 PLUS MIXED SPECTRA	1483	24000	NEW
	PNA, MW=190	1498	28000	NEW
	UNK POLYCYCLIC H.C.	1531	17000	NEW
	UNK POLYCYCLIC H.C.	1549	9500	NEW
	UNK POLYCYCLIC H.C.	1560	10000	NEW
	UNK POLYCYCLIC H.C.	1644	10000	NEW
	PNA, MW=216	1683	13000	NEW

BB
3/19/93

FOOTNOTES

B The analyte was found in the method blank. The reported results have been adjusted for the quantity found in the blank.
E The reported concentration is an estimate only. The response factor was assumed to be 1.000 relative to an internal standard.
J Indicates an estimated concentration below the Method Detection Limit.
K The isomer is unknown.
N Analytical standards were not analyzed for this compound.
U Not detected.
W The identification is tentative or closely related to the compound.

ANALYTICAL REPORT FOR SAMPLE No. EK4374

NON-TARGET ANALYTE RESULTS
Additional Semi-Volatiles

Field Sample ID BOOZR0

Cas. No	COMPOUND	Scan Number	Results ug/Kg	Footnotes
	NITROGEN CONTAINING PNA, MW=167	1395	4200	NEW
	C1 PNA, MW=192	1437	3100	NEW
	C1 PNA, MW=192	1442	4200	NEW
	DI OXY PNA, MW=208	1489	6800	NEW
	PNA, MW=204	1540	2500	NEW
	PNA, MW=216	1640	5500	NEW
	OXY PNA, MW=230	1723	4300	NEW
	OXY PNA, MW=230	1755	4100	NEW
	PNA, MW=228	1796	3000	NEW
	PNA, MW=252	2032	12000	NEW

FOOTNOTES

B The analyte was found in the method blank. The reported results have been adjusted for the quantity found in the blank.

E The reported concentration is an estimate only. The response factor was assumed to be 1.000 relative to an internal standard.

J Indicates an estimated concentration below the Method Detection Limit.

K The isomer is unknown.

N Analytical standards were not analyzed for this compound.

U Not detected.

W The identification is tentative or closely related to the compound.

9613424.1062

ANALYTICAL REPORT FOR SAMPLE No. EK4375

NON-TARGET ANALYTE RESULTS
Additional Semi-Volatiles

Field Sample ID BOOZR1

Cas. No	COMPOUND	Scan Number	Results ug/Kg	Footnotes
	UNK CYCLIC H.C.	1436	1900	NEW
	UNK CYCLIC H.C.	1483	2200	NEW
	UNK OXY H.C.	1502	2200	NEW
	UNK OXY H.C.	1511	1600	NEW
	UNK POLYCYCLIC H.C.	1531	1700	NEW
	UNK POLYCYCLIC H.C.	1637	2200	NEW
	UNK POLYCYCLIC H.C.	1645	2200	NEW
	UNK POLYCYCLIC H.C.	1654	1600	NEW
	UNK POLYCYCLIC H.C.	1672	2000	NEW
	UNK POLYCYCLIC H.C.	1704	2300	NEW

MB
3/19/93

FOOTNOTES

B The analyte was found in the method blank. The reported results have been adjusted for the quantity found in the blank.
E The reported concentration is an estimate only. The response factor was assumed to be 1.000 relative to an internal standard.
J Indicates an estimated concentration below the Method Detection Limit.
K The isomer is unknown.
N Analytical standards were not analyzed for this compound.
U Not detected.
W The identification is tentative or closely related to the compound.

9613424.1063

ANALYTICAL REPORT FOR SAMPLE No. EK4376

NON-TARGET ANALYTE RESULTS
Additional Semi-Volatiles

Field Sample ID BOOZR2

Cas. No	COMPOUND	Scan Number	Results ug/KG	Footnotes
	UNK POLYCYCLIC H.C.	1106	14000	NEW
	UNK POLYCYCLIC H.C.	1174	7500	NEW
	UNK POLYCYCLIC H.C.	1185	10000	NEW
	UNK POLYCYCLIC H.C.	1343	21000	NEW
	UNK POLYCYCLIC H.C.	1362	18000	NEW
	UNK POLYCYCLIC H.C.	1381	26000	NEW
	UNK POLYCYCLIC H.C.	1389	19000	NEW
	UNK POLYCYCLIC H.C.	1400	35000	NEW
	UNK POLYCYCLIC H.C.	1475	15000	NEW
	UNK POLYCYCLIC H.C.	1503	19000	NEW

MB 3/19/93

FOOTNOTES

B The analyte was found in the method blank. The reported results have been adjusted for the quantity found in the blank.
E The reported concentration is an estimate only. The response factor was assumed to be 1.000 relative to an internal standard.
J Indicates an estimated concentration below the Method Detection Limit.
K The isomer is unknown.
N Analytical standards were not analyzed for this compound.
U Not detected.
W The identification is tentative or closely related to the compound.

9613424.1064

ANALYTICAL REPORT FOR SAMPLE No. EK4377

NON-TARGET ANALYTE RESULTS
Additional Semi-Volatiles

Field Sample ID BOOZR3

Cas. No	COMPOUND	Scan Number	Results ug/KG	Footnotes
	UNK OXY H.C.	1821	1900	NEW
	UNK POLYCYCLIC H.C.	1830	1400	NEW

RB
8/19/93

FOOTNOTES

B The analyte was found in the method blank. The reported results have been adjusted for the quantity found in the blank.

E The reported concentration is an estimate only. The response factor was assumed to be 1.000 relative to an internal standard.

J Indicates an estimated concentration below the Method Detection Limit.

K The isomer is unknown.

N Analytical standards were not analyzed for this compound.

U Not detected.

W The identification is tentative or closely related to the compound.

9613424.1065

ANALYTICAL REPORT FOR SAMPLE No. EK4378

NON-TARGET ANALYTE RESULTS
Additional Semi-Volatiles

Field Sample ID BOOZR4

Cas. No	COMPOUND	Scan Number	Results ug/KG	Footnotes
	ALDOL CONDENSATION PRODUCT	619	1400	NEWB

MB 3/19/93

FOOTNOTES

- B The analyte was found in the method blank. The reported results have been adjusted for the quantity found in the blank.
- E The reported concentration is an estimate only. The response factor was assumed to be 1.000 relative to an internal standard.
- J Indicates an estimated concentration below the Method Detection Limit.
- K The isomer is unknown.
- N Analytical standards were not analyzed for this compound.
- U Not detected.
- W The identification is tentative or closely related to the compound.

9613424.1066

ANALYTICAL REPORT FOR SAMPLE No. EK4379

NON-TARGET ANALYTE RESULTS
Additional Semi-Volatiles

Field Sample ID BOOZR5

Cas. No	COMPOUND	Scan Number	Results ug/Kg	Footnotes
	DICHLORO-ISOCYANTO BENZENE	964	360	NEW
	C1 DIBENZOTHIOPHENE	1410	200	NEW
314-40-9	2,4(1H,3H)-PYRIMIDINEDIONE, 5-BROMO	1461	310	NEW
	DI-OXY PNA, MW=208	1488	320	NEW
	C2 PHENANTHRENE	1528	200	NEW
	ALKANE @ C21	1534	340	NEW
	UNK PNA, MW=339	1562	100	NEW
	NONACHLORO-METHANO-INDENE CONGENER	1595	240	NEW
	NONACHLORO-METHANO-INDENE CONGENER	1673	120	NEW
	POLYCHLORO-METHANO-INDENE CONGENER	1688	150	NEW

RB
3/19/93

FOOTNOTES

- B The analyte was found in the method blank. The reported results have been adjusted for the quantity found in the blank.
- E The reported concentration is an estimate only. The response factor was assumed to be 1.000 relative to an internal standard.
- J Indicates an estimated concentration below the Method Detection Limit.
- K The isomer is unknown.
- N Analytical standards were not analyzed for this compound.
- U Not detected.
- W The identification is tentative or closely related to the compound.

9613424.1067

ANALYTICAL REPORT FOR SAMPLE No. EK4380

NON-TARGET ANALYTE RESULTS
Additional Semi-Volatiles

Field Sample ID BOOZR6

Cas. No	COMPOUND	Scan Number	Results ug/Kg	Footnotes
	PENTACHLORO-BIPHENYL CONGENER	1595	4.4E5	NEW
	PENTACHLORO-BIPHENYL CONGENER	1623	5.0E5	NEW
	HEXACHLORO-BIPHENYL CONGENER	1686	4.2E5	NEW
	HEXACHLORO-BIPHENYL CONGENER	1703	7.7E5	NEW
	HEXACHLORO-BIPHENYL CONGENER	1731	7.8E5	NEW
	HEXACHLORO-BIPHENYL CONGENER	1768	7.7E5	NEW
	HEPTACHLORO-BIPHENYL CONGENER	1786	1.1E6	NEW
	HEPTACHLORO-BIPHENYL CONGENER	1815	9.8E5	NEW
	HEPTACHLORO-BIPHENYL CONGENER	1850	1.7E6	NEW
	HEPTACLORO-BIPHENYL CONGENER	1891	1.1E6	NEW

R

RB 3/19/93 on log
Run times do not agree w/ raw data

FOOTNOTES

B The analyte was found in the method blank. The reported results have been adjusted for the quantity found in the blank.
E The reported concentration is an estimate only. The response factor was assumed to be 1.000 relative to an internal standard.
J Indicates an estimated concentration below the Method Detection Limit.
K The isomer is unknown.
N Analytical standards were not analyzed for this compound.
U Not detected.
W The identification is tentative or closely related to the compound.

9613424.1068

ANALYTICAL REPORT FOR SAMPLE No. EK4381

NON-TARGET ANALYTE RESULTS
Additional Semi-Volatiles

Field Sample ID BOOZR7

Cas. No	COMPOUND	Scan Number	Results ug/Kg	Footnotes
	POLYCHLORINATED POLYCYCLIC H.C.	1448	710	NEW
	POLYCHLORINATED POLYCYCLIC H.C.	1497	790	NEW
	POLYCHLORINATED POLYCYCLIC H.C.	1528	500	NEW
	UNK POLYCYCLIC	1540	540	NEW
	POLYCHLORINATED POLYCYCLIC H.C.	1563	830	NEW
	POLYCHLORINATED POLYCYCLIC H.C.	1596	1400	NEW
	UNK POLYCYCLIC	1616	410	NEW
	POLYCHLORINATED POLYCYCLIC H.C.	1635	250	NEW
	POLYCHLORINATED POLYCYCLIC H.C.	1689	780	NEW
	ALKANE @ C33	2174	790	NEW

RM
3/19/93

FOOTNOTES

B The analyte was found in the method blank. The reported results have been adjusted for the quantity found in the blank.

E The reported concentration is an estimate only. The response factor was assumed to be 1.000 relative to an internal standard.

J Indicates an estimated concentration below the Method Detection Limit.

K The isomer is unknown.

N Analytical standards were not analyzed for this compound.

U Not detected.

W The identification is tentative or closely related to the compound.

9613424.1069

ANALYTICAL REPORT FOR SAMPLE No. EK4382

NON-TARGET ANALYTE RESULTS
Additional Semi-Volatiles

Field Sample ID BOOZR8

Cas. No	COMPOUND	Scan Number	Results ug/Kg	Footnotes
57-10-3	HEXADECANOIC ACID	1449	220	NEW
	HEXANEDIOC ACID C8 ESTER	1706	160	NEW
	ALKANE @ C27	1857	400	NEW
	ALKANE @ C28	1917	170	NEW
	UNKNOWN	1963	1100	NEW
	ALKANE @ C29	1988	1100	NEW
	ALKANE @ C30	2073	140	NEW
	ALKANE @ C31	2176	920	NEW
	UNK POLYCYCLIC H.C.	2186	140	NEW
	UNKNOWN	2570	210	NEW

RB
3/19/93

FOOTNOTES

B The analyte was found in the method blank. The reported results have been adjusted for the quantity found in the blank.
E The reported concentration is an estimate only. The response factor was assumed to be 1.000 relative to an internal standard.
J Indicates an estimated concentration below the Method Detection Limit.
K The isomer is unknown.
N Analytical standards were not analyzed for this compound.
U Not detected.
W The identification is tentative or closely related to the compound.

ANALYTICAL REPORT FOR SAMPLE No. EK4383

NON-TARGET ANALYTE RESULTS
Additional Semi-Volatiles

Field Sample ID BOOZR9

Cas. No	COMPOUND	Scan Number	Results ug/Kg	Footnotes
	OCTADECENE CONGENER	1275	6.4E4	NEW
	OCTADECENE CONGENER	1320	1.6E5	NEW
	UNK POLYCYCLIC H.C.	1345	5.1E4	NEW
	UNK POLYCYCLIC H.C.	1361	7.9E4	NEW
	OCTADECENE CONGENER	1397	2.0E5	NEW
	UNK POLYCYCLIC H.C.	1417	2.3E5	NEW
	UNK POLYCYCLIC H.C.	1455	1.9E5	NEW
	UNK POLYCYCLIC H.C.	1465	1.7E5	NEW
	UNK POLYCYCLIC H.C.	1483	7.5E4	NEW
	ALKANE @ C21	1547	3.9E5	NEW

NB
3/19/93

FOOTNOTES

B The analyte was found in the method blank. The reported results have been adjusted for the quantity found in the blank.

E The reported concentration is an estimate only. The response factor was assumed to be 1.000 relative to an internal standard.

J Indicates an estimated concentration below the Method Detection Limit.

K The isomer is unknown.

N Analytical standards were not analyzed for this compound.

U Not detected.

W The identification is tentative or closely related to the compound.

9613424.1071

ANALYTICAL REPORT FOR SAMPLE No. EK4384

NON-TARGET ANALYTE RESULTS
Additional Semi-Volatiles

Field Sample ID BOOZS0

Cas. No	COMPOUND	Scan Number	Results ug/Kg	Footnotes
	UNK OXY H.C.	1447	1100	NEW
	UNKNOWN	1457	1900	NEW
	UNK CYCLIC H.C.	1512	15000	NEW
	UNK CYCLIC H.C.	1522	1800	NEW
	UNK CYCLIC H.C.	1532	2400	NEW
	UNK CYCLIC H.C.	1540	2800	NEW
	UNK OXY H.C.	1589	2000	NEW
	UNK OXY H.C.	1580	1700	NEW
	UNK OXY H.C.	1618	1600	NEW
	UNK OXY H.C.	1636	1700	NEW

RB
3/19/93

FOOTNOTES

B The analyte was found in the method blank. The reported results have been adjusted for the quantity found in the blank.
E The reported concentration is an estimate only. The response factor was assumed to be 1.000 relative to an internal standard.
J Indicates an estimated concentration below the Method Detection Limit.
K The isomer is unknown.
N Analytical standards were not analyzed for this compound.
U Not detected.
W The identification is tentative or closely related to the compound.

ANALYTICAL REPORT FOR SAMPLE No. EK4385

NON-TARGET ANALYTE RESULTS
Additional Semi-Volatiles

Field Sample ID BOOZS1

Cas. No	COMPOUND	Scan Number	Results ug/Kg	Footnotes
	ALKANE @ C15	1105	7700	NEW
	ALKANE @ C17	1252	1.5E5	NEW
	ALKANE @ C17	1295	3.0E5	NEW
	ALKANE @ C18	1328	1.5E5	NEW
	UNK CYCLIC H.C.	1347	6.1E4	NEW
	ALKANE @ C18	1369	3.9E5	NEW
	ALDEHYDE @ C19	1404	8.1E4	NEW
	ALDEHYDE @ C20	1461	7.9E4	NEW
	ALKANE @ C21	1541	1.3E5	NEW
	ALDEHYDE @ C21	1554	1.5E5	NEW

MB
3/19/93

FOOTNOTES

B The analyte was found in the method blank. The reported results have been adjusted for the quantity found in the blank.
E The reported concentration is an estimate only. The response factor was assumed to be 1.000 relative to an internal standard.
J Indicates an estimated concentration below the Method Detection Limit.
K The isomer is unknown.
N Analytical standards were not analyzed for this compound.
U Not detected.
W The identification is tentative or closely related to the compound.

9613424.1073

ANALYTICAL REPORT FOR SAMPLE No. EK4386

NON-TARGET ANALYTE RESULTS
Additional Semi-Volatiles

Field Sample ID BOOZS2

Cas. No	COMPOUND	Scan Number	Results ug/Kg	Footnotes
	OCTADECENE CONGENER	1325	54000	NEW
	UNK CYCLIC H.C.	1352	27000	NEW
	UNK POLYCYCLIC H.C.	1381	35000	NEW
	UNK POLYCYCLIC H.C.	1403	89000	NEW
	UNK OXY H.C.	1428	41000	NEW
	UNK POLYCYCLIC H.C.	1475	30000	NEW
	UNK POLYCYCLIC H.C.	1523	26000	NEW
	UNK POLYCYCLIC H.C.	1541	23000	NEW
	ALKANE @ C21	1554	1.2E5	NEW
	UNK POLYCYCLIC H.C.	1734	13000	NEW

MB
3/19/93

FOOTNOTES

B The analyte was found in the method blank. The reported results have been adjusted for the quantity found in the blank.
E The reported concentration is an estimate only. The response factor was assumed to be 1.000 relative to an internal standard.
J Indicates an estimated concentration below the Method Detection Limit.
K The isomer is unknown.
N Analytical standards were not analyzed for this compound.
U Not detected.
W The identification is tentative or closely related to the compound.

9613428.1074

ANALYTICAL REPORT FOR SAMPLE No. EK4387

NON-TARGET ANALYTE RESULTS
Additional Semi-Volatiles

Field Sample ID BOOZS3

Cas. No	COMPOUND	Scan Number	Results ug/Kg	Footnotes
230-17-1	BENZO[C]CINNOLINE	1359	240	NEW
	NITROGEN CONTAINING PNA, MW=167	1426	350	NEW
	PNA, MW=190	1491	990	NEW
	PNA, MW=204	1519	260	NEW
	DI-OXY PNA, MW=208	1523	570	NEW
	UNK POLYCYCLIC H.C.	1643	110	NEW
	PNA, MW=216	1679	560	NEW
	UNK POLYCYCLIC H.C.	2082	320	NEW
	UNK POLYCYCLIC H.C.	2332	370	NEW
	UNK POLYCYCLIC H.C.	2454	490	NEW

MB
3/19/93

FOOTNOTES

B The analyte was found in the method blank. The reported results have been adjusted for the quantity found in the blank.
E The reported concentration is an estimate only. The response factor was assumed to be 1.000 relative to an internal standard.
J Indicates an estimated concentration below the Method Detection Limit.
K The isomer is unknown.
N Analytical standards were not analyzed for this compound.
U Not detected.
W The identification is tentative or closely related to the compound.

ANALYTICAL REPORT FOR SAMPLE No. EK4388

NON-TARGET ANALYTE RESULTS
Additional Semi-Volatiles

Field Sample ID BOOZS4

Cas. No	COMPOUND	Scan Number	Results ug/Kg	Footnotes
	ALDOL CONDENSATION PRODUCT	552	400	NEWB
	ALDOL CONDENSATION PRODUCT	594	1400	NEWB
	HEXANEDIOIC ACID, C8 ESTER	1744	440	NEW

MB
3/15/93

FOOTNOTES

B The analyte was found in the method blank. The reported results have been adjusted for the quantity found in the blank.
E The reported concentration is an estimate only. The response factor was assumed to be 1.000 relative to an internal standard.
J Indicates an estimated concentration below the Method Detection Limit.
K The isomer is unknown.
N Analytical standards were not analyzed for this compound.
U Not detected.
W The identification is tentative or closely related to the compound.

9613424.1076

ANALYTICAL REPORT FOR SAMPLE No. EK4389

NON-TARGET ANALYTE RESULTS
Additional Semi-Volatiles

Field Sample ID BOOZS5

Cas. No	COMPOUND	Scan Number	Results ug/Kg	Footnotes
	ALDOL CONDENSATION PRODUCT	557	830	NEWB
	ALDOL CONDENSATION PRODUCT	687	310	NEW
	PNA KETONE, MW=208	1486	460	NEW
	PNA KETONE, MW=204	1538	180	NEW
	HEXANEDIOIC ACID, C8 ESTER	1703	170	NEW
	PNA KETONE, MW=230	1720	220	NEW
	PNA, MW=228	1742	220	NEW
	PNA KETONE, MW=230	1753	190	NEW
	PNA KETONE, MW=258	1849	210	NEW
	PNA, MW=252	2029	220	NEW

MJB
3/19/93

FOOTNOTES

B The analyte was found in the method blank. The reported results have been adjusted for the quantity found in the blank.
E The reported concentration is an estimate only. The response factor was assumed to be 1.000 relative to an internal standard.
J Indicates an estimated concentration below the Method Detection Limit.
K The isomer is unknown.
N Analytical standards were not analyzed for this compound.
U Not detected.
W The identification is tentative or closely related to the compound.

9613424.1077

ANALYTICAL REPORT FOR SAMPLE No. EK4390

NON-TARGET ANALYTE RESULTS
Additional Semi-Volatiles

Field Sample ID BOOZS7

Cas. No	COMPOUND	Scan Number	Results ug/Kg	Footnotes
	ALDOL CONDENSATION PRODUCT	549	380	NEWB
	ALDOL CONDENSATION PRODUCT	592	640	NEWB
	HEXANEDIOIC ACID, C8 ESTER	1744	120	NEW

BB 3/15/93

FOOTNOTES

B The analyte was found in the method blank. The reported results have been adjusted for the quantity found in the blank.

E The reported concentration is an estimate only. The response factor was assumed to be 1.000 relative to an internal standard.

J Indicates an estimated concentration below the Method Detection Limit.

K The isomer is unknown.

N Analytical standards were not analyzed for this compound.

U Not detected.

W The identification is tentative or closely related to the compound.

9613424.1078

ANALYTICAL REPORT FOR SAMPLE No. EK4391

NON-TARGET ANALYTE RESULTS
Additional Semi-Volatiles

Field Sample ID BOOZS8

Cas. No	COMPOUND	Scan Number	Results ug/Kg	Footnotes
	ALDOL CONDENSATION PRODUCT	547	420	NEWB
	ALDOL CONDENSATION PRODUCT	591	540	NEWB
	ALDOL CONDENSATION PRODUCT	651	170	NEW
	BROMODIFLUORO H.C.	829	230	NEW
	HEXANEDIOIC ACID, C8 ESTER	1747	160	NEW

BO
3/19/93

FOOTNOTES

B The analyte was found in the method blank. The reported results have been adjusted for the quantity found in the blank.
E The reported concentration is an estimate only. The response factor was assumed to be 1.000 relative to an internal standard.
J Indicates an estimated concentration below the Method Detection Limit.
K The isomer is unknown.
N Analytical standards were not analyzed for this compound.
U Not detected.
W The identification is tentative or closely related to the compound.

9613424.1079

8LCB

LOW CONC. ~~WATER~~ Soil SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Data Chem Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: B00Z94

Lab File ID (Standard): _____ Date Analyzed: 10/3/91

Instrument ID: MS-D Time Analyzed: 7115

	IS1(DCB) AREA #	RT #	IS2(NPT) AREA #	RT #	IS3(ANT) AREA #	RT #
12 HOUR STD	28673	10:40	105210	13:55	53945	18:29
UPPER LIMIT	57346	11:10	210420	14:15	107890	18:49
LOWER LIMIT	14337	10:20	52605	13:35	26973	18:09
EPA SAMPLE NO.						
01						
02 B00Z95	19292	11:12 *	80610	14:28 *	50858	19:03 *
03 B00Z96						
04 B00Z97	24089	11:14	104535	14:28	66581	19:04
05 B00Z95						
06 B00Z94						
07						
08						
09						
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17						
18						
19						
20						
21						
22						

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = -50% of internal standard area.
RT UPPER LIMIT = +0.33 minutes of internal standard RT.
RT LOWER LIMIT = -0.33 minutes of internal standard RT.

Column used to flag internal standard area and RT values with an asterisk.
* Values outside of QC limits.

9613424.1080

8LCC

LOW CONC. ~~WATER~~ Soil SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Data Chem Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: B00264

Lab File ID (Standard): _____ Date Analyzed: 10/3/91

Instrument ID: MS-D Time Analyzed: ~~16:47~~ 7:15

		IS4(PHN) AREA #	RT #	IS5(CRY) AREA #	RT #	IS6(PRY) AREA #	RT #
	12 HOUR STD	78710	22:18	58129	29:15	50978	33:57
	UPPER LIMIT	157420	22:38	116258	29:35	101956	34:17
	LOWER LIMIT	39355	21:58	29065	28:55	25489	33:37
	EPA SAMPLE NO.						
01							
02	B00Z95	70312	22:53	42808	29:51	34917	35:04
03	B00Z98						
04	B00Z97	83267	22:54	38277	29:52	34103	35:07
05	B00Z95						
06	B00Z94						
07							
08							
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18							
19							
20							
21							
22							

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = -50% of internal standard area.
RT UPPER LIMIT = +0.33 minutes of internal standard RT.
RT LOWER LIMIT = -0.33 minutes of internal standard RT.

Column used to flag internal standard area and RT values with an asterisk.
* Values outisde of QC limits.

9613424.1081

ANALYTICAL REPORT FOR SAMPLE No. EK4368

NON-TARGET ANALYTE RESULTS
Additional Semi-Volatiles

Field Sample ID B00ZQ4

Cas. No	COMPOUND	Scan Number	Results ug/Kg	Footnotes
	ALDOL CONDENSATION PRODUCT	554	360	NEWB
	ALDOL CONDENSATION PRODUCT	597	900	NEWB
	BROMODIFLUORO H.C.	830	130	NEW
	HEXANEDIOIC ACID, C8 ESTER	1747	240	NEW

AB
3/14/93

FOOTNOTES

- B The analyte was found in the method blank. The reported results have been adjusted for the quantity found in the blank.
- E The reported concentration is an estimate only. The response factor was assumed to be 1.000 relative to an internal standard.
- J Indicates an estimated concentration below the Method Detection Limit.
- K The isomer is unknown.
- N Analytical standards were not analyzed for this compound.
- U Not detected.
- W The identification is tentative or closely related to the compound.

ANALYTICAL REPORT FOR SAMPLE No. EK4369

NON-TARGET ANALYTE RESULTS
Additional Semi-Volatiles

Field Sample ID B00Z05

Cas. No	COMPOUND	Scan Number	Results ug/Kg	Footnotes
	UNK OXY H.C.	1392	16000	NEW
	UNK OXY H.C.	1446	25000	NEW
	UNK CYCLIC H.C.	1487	36000	NEW
	UNK POLYCYCLIC H.C.	1503	22000	NEW
	UNK POLYCYCLIC H.C.	1535	11000	NEW
	UNK POLYCYCLIC H.C.	1540	14000	NEW
	UNK POLYCYCLIC H.C.	1551	15000	NEW
	UNK POLYCYCLIC H.C.	1560	11000	NEW
	UNK POLYCYCLIC H.C.	1575	15000	NEW
	SILICON CONTAINING H.C.	1887	14000	NEW

RB
3/19/93

FOOTNOTES

B The analyte was found in the method blank. The reported results have been adjusted for the quantity found in the blank.

E The reported concentration is an estimate only. The response factor was assumed to be 1.000 relative to an internal standard.

J Indicates an estimated concentration below the Method Detection Limit.

K The isomer is unknown.

N Analytical standards were not analyzed for this compound.

U Not detected.

W The identification is tentative or closely related to the compound.

9613424.1083

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Data Chem Contract: ~~WHC~~ 68-01-6864

Lab Code: ____ Case No.: ____ SAS No.: ____ SDG No.: B00ZQ4

Lab File ID (Standard): ZM8550 Date Analyzed: 10/1/91

Instrument ID: MS-3 Time Analyzed: 6:03

		IS1(DCB) AREA #	RT #	IS2(NPT) AREA #	RT #	IS3(ANT) AREA #	RT #
	12 HOUR STD	20636	11:17	92606	14:29	51172	19:03
	UPPER LIMIT	41272	11:37	185212	14:49	102344	19:23
	LOWER LIMIT	10318	10:57	46303	14:09	25586	18:43
	EPA SAMPLE NO.						
01	B00ZQ6						
02	B00ZQ5						
03	B00ZQ7						
04	B00ZQ9						
05	B00ZS7						
06	B00ZS4						
07							
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20							
21							
22							

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

page __ of __

9613424.1084

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Data Chem Contract: 68-01-6864

Lab Code: . Case No.: ____ SAS No.: ____ SDG No.: B00Z94

Lab File ID (Standard): 2M8550 Date Analyzed: 10/1/91

Instrument ID: MS-3 Time Analyzed: 6:03

	IS4(PHN) AREA #	RT #	IS5(CRY) AREA #	RT #	IS6(PRY) AREA #	RT #
12 HOUR STD	64666	22:53	42179	29:51	37863	35:05
UPPER LIMIT	129332	23:18	84358	30:11	75726	35:25
LOWER LIMIT	32333	22:33	21090	29:31	18932	34:45
EPA SAMPLE NO.						
01 B00Z96						
02 B00Z95						
03 B00Z97						
04 B00Z99						
05 B00Z57						
06 B00Z54						
07						
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21						
22						

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

page __ of __

soil 9613424 1085

8LCC

LOW CONC. ~~WATER~~ SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Data Chem Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: B00204

Lab File ID (Standard): ZV3550 Date Analyzed: 10/8/91

Instrument ID: MS-D Time Analyzed: 5:13

	IS4(PHN) AREA #	RT #	IS5(CRY) AREA #	RT #	IS6(PRY) AREA #	RT #
12 HOUR STD	57816	23:02	41828	30:01	33970	35:22
UPPER LIMIT	115632	22:42	83656	30:21	67940	~~35:03~~ 35:42
LOWER LIMIT	28908	23:22	20914	29:41	16985	35:02
EPA SAMPLE NO.						
01	~~57816~~	~~23:02~~	~~41828~~	~~30:01~~	~~33970~~	~~35:22~~
02						
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22						

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = -50% of internal standard area.
RT UPPER LIMIT = +0.33 minutes of internal standard RT.
RT LOWER LIMIT = -0.33 minutes of internal standard RT.

Column used to flag internal standard area and RT values with an asterisk.
* Values outisde of QC limits.

9613424.1086
8LCB

LOW CONC. WATER SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Data Chem Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: B00Z04

Lab File ID (Standard): ZV3550 Date Analyzed: 10/8/91

Instrument ID: MS-D Time Analyzed: 5:13

	IS1(DCB) AREA #	RT #	IS2(NPT) AREA #	RT #	IS3(ANT) AREA #	RT #
12 HOUR STD	22817	11:20	79291	14:36	40848	19:12
UPPER LIMIT	45634	11:40	158582	14:56	81696	19:52
LOWER LIMIT	11409	11:00	39646	14:16	20424	18:32
EPA SAMPLE NO.						
01	22817	11:20	79291	14:36	40848	19:12
02						
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22						

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = -50% of internal standard area.
RT UPPER LIMIT = +0.33 minutes of internal standard RT.
RT LOWER LIMIT = -0.33 minutes of internal standard RT.

Column used to flag internal standard area and RT values with an asterisk.
* Values outside of QC limits.

9613424-1087 BLCB

LOW CONC. ~~WATER~~ soil SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Data Chem Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Lab File ID (Standard): _____ Date Analyzed: 10/15/91

Instrument ID: MS-D Time Analyzed: 20:24

	IS1(DCB) AREA #	RT #	IS2(NPT) AREA #	RT #	IS3(ANT) AREA #	RT #
12 HOUR STD	23376	11:22	88329	14:33	44481	17:07
UPPER LIMIT	46752	11:52	176658	14:53	88962	17:37
LOWER LIMIT	11688	11:02	44165	14:13	22241	16:47
EPA SAMPLE NO.						
01 B00ZR6						
02						
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19						
20						
21						
22						

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = -50% of internal standard area.
RT UPPER LIMIT = +0.33 minutes of internal standard RT.
RT LOWER LIMIT = -0.33 minutes of internal standard RT.

Column used to flag internal standard area and RT values with an asterisk.
* Values outside of QC limits.

9613424_1088

8LCC

LOW CONC. WATER SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Data Chem Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: B00ZQ4

Lab File ID (Standard): _____ Date Analyzed: 10/15/91

Instrument ID: MS-D 5100 Time Analyzed: 20:24

	IS4(PHN) AREA #	RT #	IS5(CRY) AREA #	RT #	IS6(PRY) AREA #	RT #
12 HOUR STD	61689	22:58	41522	29:56	39461	35:14
UPPER LIMIT	123378	23:18	83044	30:16	78922	35:34
LOWER LIMIT	30845	22:38	20761	29:36	19731	34:54
EPA SAMPLE NO.						
01 B00ZR6						
02						
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22						

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = -50% of internal standard area.
RT UPPER LIMIT = +0.33 minutes of internal standard RT.
RT LOWER LIMIT = -0.33 minutes of internal standard RT.

Column used to flag internal standard area and RT values with an asterisk.
* Values outisde of QC limits.

9613424.1089

8LCB

LOW CONC. ~~WATER~~ soil SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Data Chem Contract: Westinghouse-Hanford

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: B002Q4

Lab File ID (Standard): Z53550 Date Analyzed: 10/4/91

Instrument ID: MS-3 Time Analyzed: 5:50

	IS1(DCB) AREA #	RT #	IS2(NPT) AREA #	RT #	IS3(ANT) AREA #	RT #
12 HOUR STD	22523	10:36	81031	13:50	42884	18:22
UPPER LIMIT	45046	10:56	162062	14:10	85768	18:42
LOWER LIMIT	11262	10:16	40516	13:30	21442	18:02
EPA SAMPLE NO.						
01 B002R1						
02 B002R2						
03 B002R2D						
04						
05						
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19						
20						
21						
22						

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = -50% of internal standard area.
RT UPPER LIMIT = +0.33 minutes of internal standard RT.
RT LOWER LIMIT = -0.33 minutes of internal standard RT.

Column used to flag internal standard area and RT values with an asterisk.
* Values outside of QC limits.

page __ of __

9613424 1090

8LCC

LOW CONC. WATER SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Data Chem Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Lab File ID (Standard): _____ Date Analyzed: 10/4/91

Instrument ID: _____ Time Analyzed: 5:50

	IS4(PHN) AREA #	RT #	IS5(CRY) AREA #	RT #	IS6(PRY) AREA #	RT #
12 HOUR STD	61746	22:12	47840	29:08	44195	33:44
UPPER LIMIT	123492	22:32	95680	29:28	88390	34:04
LOWER LIMIT	30873	21:52	23920	28:48	22098	33:24
EPA SAMPLE NO.						
01 B002R1						
02 B002R2						
03 B002MO						
04						
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22						

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = -50% of internal standard area.
RT UPPER LIMIT = +0.33 minutes of internal standard RT.
RT LOWER LIMIT = -0.33 minutes of internal standard RT.

Column used to flag internal standard area and RT values with an asterisk.
* Values outisde of QC limits.

9613424.1091

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Data Chem Contract: WHAN

Lab Code: ____ Case No.: ____ SAS No.: ____ SDG No.: B00Z94

Lab File ID (Standard): ____ Date Analyzed: 9/30/91

Instrument ID: ____ Time Analyzed: 9:06

		IS1(DCB) AREA #	RT #	IS2(NPT) AREA #	RT #	IS3(ANT) AREA #	RT #
	12 HOUR STD						
	UPPER LIMIT						
	LOWER LIMIT						
	EPA SAMPLE NO.						
01	B00Z59						
02	B00Z94						
03							
04							
05							
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22							

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

page __ of __

9613424.1092

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: _____ Contract: _____

Lab Code: ____ Case No.: _____ SAS No.: _____ SDG No.: B00Z04

Lab File ID (Standard): _____ Date Analyzed: 9/30/91

Instrument ID: _____ Time Analyzed: 9:06

	IS4(PHN) AREA #	RT #	IS5(CRY) AREA #	RT #	IS6(PRY) AREA #	RT #
12 HOUR STD						
UPPER LIMIT						
LOWER LIMIT						
EPA SAMPLE NO.						
01 B00Z59						
02 B00Z04						
03						
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22						

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

page __ of __

9613424_1093

8LCC

LOW CONC. ~~WATER~~ soil SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Data Chem Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: B00ZQ4

Lab File ID (Standard): _____ Date Analyzed: 10/3/91

Instrument ID: MS-D Time Analyzed: 16:11

		IS4(PHN) AREA #	RT #	IS5(CRY) AREA #	RT #	IS6(PRY) AREA #	RT #
	12 HOUR STD	105834	23:11	71558	29:05	67855	33:37
	UPPER LIMIT	211668	23:31	143116	29:25	135710	33:57
	LOWER LIMIT	52917	22:51	35779	28:45	33928	33:17
	EPA SAMPLE NO.						
01							
02							
03							
04							
05	B00ZS2						
06	B00ZS8						
07	B00ZR9						
08	B00ZS0						
09	B00ZR3						
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21							
22							

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = -50% of internal standard area.
RT UPPER LIMIT = +0.33 minutes of internal standard RT.
RT LOWER LIMIT = -0.33 minutes of internal standard RT.

Column used to flag internal standard area and RT values with an asterisk.
* Values outisde of QC limits.

Soil 9613424.1094
8LCB

LOW CONC. ~~WATER~~ SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Data Chem Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: B00299

Lab File ID (Standard): _____ Date Analyzed: 10/3/91

Instrument ID: _____ Time Analyzed: 16:11

	IS1(DCB) AREA #	RT #	IS2(NPT) AREA #	RT #	IS3(ANT) AREA #	RT #
12 HOUR STD	40491	10:39	152305	13:51	75539	18:23
UPPER LIMIT	80982	10:59	304610	14:11	151078	18:43
LOWER LIMIT	20246	10:19	76152.5	13:31	37770	18:03
EPA SAMPLE NO.						
01						
02						
03						
04						
05	B00252					
06	B00298					
07	B00299					
08	B00250					
09	B00253					
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20						
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22						

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = -50% of internal standard area.
RT UPPER LIMIT = +0.33 minutes of internal standard RT.
RT LOWER LIMIT = -0.33 minutes of internal standard RT.

Column used to flag internal standard area and RT values with an asterisk.
* Values outside of QC limits.

page __ of __

9613424.1095

4 ~~th~~ pages missing for MS/MSD, Samples
EK4392, EK4393, EK4394 & EK4395,
semi-VOA

---

no semi-VOA blank
no PCB blank
no PCB calibration, linearity checks

~~N/A~~ ~~no internal standard results (semi, retention times)~~

no semi-VOA internal standard results

Case # 2719 100-DR-1

9613424.1096

OSM RCRA DATA ASSESSMENT

DATE _____

REVIEWED BY L.L. Ames

LABORATORY DataChem

CASE # 0719 (100-DR-1)

SDG # S91-0719

SAMPLES/MATRIX (All soils)

B00ZQ4	B00ZQ9	B00ZR4	B00ZR9
B00ZQ5	B00ZR0	B00ZR5	B00ZS0
B00ZQ6	B00ZR1	B00ZR6	B00ZS1
B00ZQ7	B00ZR2	B00ZR7	B00ZS2
B00ZQ8	B00ZR3	B00ZR8	B00ZS3
B00ZS4	B00ZS5	B00ZS7	B00ZS8

DATA ASSESSMENT SUMMARY

QUALITY CONTROL CHECK	ANALYSIS	VOA by Method 8240	Semi-VOA by Method 8270	PCB by Method 8080
1. Holding Times		0	0	0
2. Blanks		X		
3. Matrix Spikes		0	0	0
4. Duplicates		0	0	0
5. Calibrations		0	0	
6. Other		0	0	0
7. Surrogate Analyses		0	0	0
8. GC/MS Tune		0	0	\
9. Internal Standards		0		
10. \		\	\	\

0 = data had no problems
X = minor problems, data may be qualified
M = data qualified due to major problems/some data may be unusable

OVERALL ASSESSSMENT: _____

NOTES: _____

o Refer to the corresponding attachments for explanation of any problems.

RCRA QC

Name L.L. Ames Date

QC Check: Holding Times

COMMENTS: Collection to extraction and extraction to analysis maximum holding times were met for the semi-VOA and PCB analyses. VOA collection to analysis holding times also were within control limits. All samples were properly preserved at 4±4°C.

ACTION: No action is required.

sample #	constituent	value/qual	sample #	constituent	value/qual

9613424.1098

RCRA QC

Name L.L. Ames Date

QC Check: Blanks

COMMENTS: Three VOA soil blanks (MB-1, MB-2 and MB-3) showed that none of the target analytes were detected except acetone contamination in MB-2 and MB-3.

ACTION: Qualify VOA sample results with acetone <30 µg/kg as undetected (U).

sample #	constituent	value/qual	sample #	constituent	value/qual
B00ZQ4	acetone	U	B00ZS8	acetone	U
B00ZQ5					
B00ZQ6					
B00ZQ7					
B00ZQ9					
B00ZR0					
B00ZR1					
B00ZR2					
B00ZR3					
B00ZR4					
B00ZR5					
B00ZR6					
B00ZR8					
B00ZS1					
B00ZS3					
B00ZS4					
B00ZS5					
B00ZS7					

2 of 9

9613424.1099

RCRA QC

Name L.L. Ames Date

QC Check: Matrix Spikes

COMMENTS: Soil volatile MS/MSD recoveries and % RPDs were all within control limits. Samples B00ZR9 and B00ZS0 were used as VOA MS/MSD samples. Soil semi-VOA MS/MSD recoveries and % RPD on samples B00ZR2 and B00ZS3 met the control limits for spike recovery except for 4-nitrophenol due to a 1:10 sample dilution. Recoveries of PCBs from sample B00ZS8 were within QC limits.

ACTION: No action is required.

sample #	constituent	value/qual	sample #	constituent	value/qual

9613424.1100

RCRA QC

Name L.L. Ames Date

QC Check: Duplicates

COMMENTS: This requirement was satisfied with the MS/MSD samples for VOA, semi-VOA and PCB analyses. All of the duplicate analyses for PCB, VOA and semi-VOA were with control limits.

ACTION: No action is required.

sample #	constituent	value/qual	sample #	constituent	value/qual

RCRA QC

Name L. L. Ames Date

QC Check: Calibrations

COMMENTS: VOA RRF and % RSD criteria were met for all SPCC and CCC for the initial calibration. The VOA RRF50 and % D are within control limits for all SPCC and CCC data for continuing calibrations. The semi-VOA results also met all initial and continuing calibration criteria.

ACTION:

sample #	constituent	value/qual	sample #	constituent	value/qual

9613424.1102

RCRA QC

Name L.L. Ames Date

QC Check: Other

COMMENTS: No comments.

ACTION: No action required.

sample #	constituent	value/qual	sample #	constituent	value/qual

9613424.1103

RCRA QC

Name L.L. Ames Date

QC Check: Surrogate Analyses

COMMENTS: Soil volatile surrogate recovery was outside of control limits for sample B00ZR9 with toluene-d8 only. An MS/MSD rerun of B00ZR9 surrogate toluene-d8 was within control limits. Soil semivolatile surrogate recovery was within recovery limits for all surrogates. PCB DBC/TCMX recoveries from soil samples were all within control limits.

ACTION: No action is required.

sample #	constituent	value/qual	sample #	constituent	value/qual

9613424.1104

RCRA QC

Name L.L. Ames Date

QC Check: GC/MS Tune

COMMENTS: BFB GC/MS tuning and mass calibration were performed each of three days before VOA samples were analyzed with all results within control limits. DFTPP GC/MS tuning and mass calibration also were performed for semi-VOA samples at the required times with all results within QC limits for ion abundance criteria.

ACTION: No action is required.

sample #	constituent	value/qual	sample #	constituent	value/qual

RCRA QC

Name L.L. Ames Date

QC Check: Internal Standards

COMMENTS: VOA internal standard areas for 1,4-difluorobenzene and chlorobenzene-d5 in B00ZS0 were outside of control limits but the sample was rerun with satisfactory results as an MS/MSD. All retention times were met for VOA analyses. Another sample (B00ZR9) also was frequently not within standard area control limits due possibly to sample inhomogeneity.

ACTION: No action is required for VOA results.

sample #	constituent	value/qual	sample #	constituent	value/qual

ACTION: If positive results do not meet the retention time criteria qualify all detected results as nondetects as follows: If the misidentified peak is outside the retention time windows and no interferences are noted report the CRQL and if the misidentified peak interferes with a target peak then the report value is qualified as estimated and nondetected (UJ). If positive results were not confirmed on disimilar columns, reject affected results (R). If a 3% OV-1 was used to confirm dieldrin and DDE, reject the affected data (R). If PCB, chlordane or toxaphene identification is questionable qualify the results as presumptive and estimated (NJ). If GC/MS confirmation was not conducted contact the laboratory for explanation and note in the validation narrative.

7.2 REPORTED RESULTS AND QUANTITATION LIMITS

Are results and quantitation limits calculated properly?	Yes	No	N/A
Has the laboratory reported the sample quantitation limits within 5xCRQL values?	Yes	No	N/A

ACTION: If results and quantitation limits are in error contact the laboratory for clarification and note in the validation narrative.

8. OVERALL ASSESSMENT AND SUMMARY

RB 3/22/93

Has the laboratory conducted the analysis in accordance with the analytical SOW?	~~Yes~~	No	N/A
Were project specific data quality objectives met for this analysis?	Yes	No	N/A

ACTION: Summarize all the data qualifications and complete the data validation narrative as specified in Section 10.0 of the data validation requirements.

COMMENTS (attach additional sheets as necessary):

COMMENTS (attach additional sheets as necessary): This is a non-CLP data package.

Mercury was added in several sample analyses presumably to clean up sulfur contamination. This would indicate that a sulfur clean up blank was required. There is no evidence of a sulfur clean up blank run in the data package; however, the method check appears to account for this. No qualification has been made as a result. The user should note that pesticide and PCB's were analyzed for separately.

VOLATILE ORGANIC DATA VALIDATION CHECKLIST - FORM A-1

PROJECT: Westinghouse-Hanford	REVIEWER: PBD	DATE: 3-19-93
LABORATORY: Datachem	CASE:	SDG: B00ZQ4
SAMPLES/MATRIX: 24 Soil samples: B00ZQ4, B00ZQ5, B00ZQ6, B00ZQ7, B00ZQ8, B00ZQ9, B00ZR0, B00ZR1, B00ZR2, B00ZR3, B00ZR4, B00ZR5, B00ZR6, B00ZR7, B00ZR8, B00ZR9, B00ZS0, B00ZS1, B00ZS2, B00ZS3, B00ZS4, B00ZS5, B00ZS7 and B00ZS8 - *Method 8240		

* No VOA vial for B00ZS6

1. DATA PACKAGE COMPLETENESS

Review the data package for completeness and check off the items below. If any data review elements are missing contact the laboratory for submittal.

Data Package Item	Present?: Yes	No	N/A
Case Narrative	✓		
Data Summary		✓	
Chain-of-Custody		✓	
QC Summary			
Surrogate report	✓		
MS/MSD report	✓		
Blank summary report	✓		
GC/MS tuning report	✓		
Internal standard summary report	✓		
Sample Data			
Sample reports	✓		
TIC reports for each sample	✓		
RIC reports for all samples	✓		
Raw and corrected spectra for all detected results	✓		
Raw and corrected library search data for all reported TIC	✓		
Quantitation and calculation data for all TIC	✓		
Standards Data			
Initial calibration report	✓		
RIC and quantitation reports for initial calibration	✓		
Continuing calibration reports	✓		
RIC and quantitation reports for cont. calibrations	✓		
Internal standard summary report	✓		
Raw QC Data			
Tuning report, spectra and mass lists	✓		
Blank analysis reports	✓		
TIC reports for all blanks	✓		
RIC and quantitation reports for blanks	✓		
Raw and corrected spectra for all detected results in blanks	✓		
Raw and corrected library search data for all reported TIC	✓		

Data Package Item	Present?: Yes	No	N/A
Quantitation and calculation data for all TIC	✓		
MS/MSD report forms	✓		
RIC and quantitation reports for MS/MSD	✓		
Additional Data			
Moisture/% solids data sheets		✓	
Reduction formulae		✓	
Instrument time logs		✓	
Chemist notebook pages		✓	
Sample preparation sheets		✓	

2. HOLDING TIMES

Complete the holding time summary form listing all samples and dates of collection and analysis.

Were all samples analyzed within holding time? (Yes) No N/A

ACTION: If any holding times were exceeded, but not by greater than a factor of two, qualify associated samples as estimated (J for detects or UJ for nondetects), otherwise reject all nondetects (R) and qualify all associated detects as estimated (J).

3. INSTRUMENT CALIBRATION, TUNING AND PERFORMANCE CHECKS

3.1 GC/MS TUNING AND PERFORMANCE CHECKS

Is a bromofluorobenzene tune report present for each applicable 12-h period? (Yes) No N/A

Do all tunes on all instruments meet the tuning criteria? (Yes) No N/A

Do all tunes on all instruments meet the expanded criteria? Yes No (N/A)

Has the laboratory made any calculation or transciption errors? Yes (No) N/A

Have the proper significant figures been reported? (Yes) No N/A

ACTION: If the mass calibration is out of specification but within the expanded criteria, qualify associated data as estimated (J for detects or UJ for nondetects). If all tuning criteria are missed, qualify all associated data as unusable (R).

3.2 INITIAL CALIBRATION

Is an initial calibration report provided for all instruments? (Yes) No N/A

Are all RSD values ≤30% (2/88 SOW)? (Yes) No N/A

Are all RRF values ≥0.05 (2/88 SOW)? (Yes) No (N/A) ~~N/A~~ RSD 3/9/88

Are all applicable RSD values ≤20.5% (3/90 SOW)?	Yes	No	N/A
Are all applicable RSD values ≤40% (3/90 SOW)?	Yes	No	N/A
Are all applicable RRF values within SOW limits (3/90 SOW)?	Yes	No	N/A
Are all erratic performance compound RRF values ≥0.01 (3/90 SOW)?	Yes	No	N/A

ACTION: With the exception of compounds that exhibit erratic performance and making allowances for up to two TCL compounds, if any RRF value is out of specification qualify all detected results for the particular compound as estimated (J) and all nondetects as unusable (R). Making allowances for up to two TCL compounds, if any RSD value is out of specification qualify all associated data as estimated (J for detects or UJ for nondetects).

3.3. CONTINUING CALIBRATION

Is a continuing calibration report present for all 12-h periods in which associated samples were analyzed?	Yes	No	N/A
Are all RRF values ≥0.05 (2/88 SOW)?	Yes	No	N/A
Are all %D values ≤25% (2/88 or 3/90 SOW)? – one outlier only	Yes	No	N/A
Are all %D values ≤40% (3/90 SOW)?	Yes	No	N/A
Are all RRF values within SOW limits (3/90 SOW)?	Yes	No	N/A
Are all erratic performance compound RRF values ≥0.01 (3/90 SOW)?	Yes	No	N/A

ACTION: With the exception of compounds that exhibit erratic performance and making allowances for up to two TCL compounds, if any RRF value is out of specification qualify all associated detected results as estimated and all nondetects as unusable (R). Making allowances for up to two TCL compounds, if any %D is out of specification, qualify all associated results as estimated (J for detects or UJ for nondetects).

4. BLANKS

4.1 LABORATORY BLANKS

Has the laboratory conducted a method blank analysis per matrix for every 12-h period in which samples were analyzed?	Yes	No	N/A
Are TCL compounds present in the laboratory blanks? Acetone	Yes	No	N/A

ACTION: Qualify all sample results ≤10 time the highest blank concentration for the common laboratory contaminants, as nondetects (U) or at the SQL if the result is <CRQL. Qualify all remaining sample results ≤5 times the blank concentration in similar fashion.

4.2. FIELD BLANKS

Are TCL compounds present in the field blanks? Yes No (N/A)

ACTION: Qualify all detected sample results ≤ 5 times the amount in any valid field blank as nondetects (U) and note the field blank results in the validation narrative.

5. ACCURACY

5.1 SURROGATE/SYSTEM MONITORING COMPOUND RECOVERY

Are any surrogate recoveries out of specification? (Yes) No N/A

Are any surrogate recoveries <10%? Yes (No) N/A

Are any method blank surrogate recoveries out of specification? Yes (No) N/A

ACTION: Qualify all associated sample results as estimated (J for detects or UJ for nondetects) for surrogates out of specification but >10%. Qualify all associated positive sample results as estimated (J) and all nondetect results as unusable (R) for all surrogates below 10%. If method blank surrogates are out of specification and the associated sample surrogates are acceptable no qualification is necessary, however, the laboratory should be contacted for an explanation.

5.2 MATRIX SPIKE RECOVERY

Has an MS/MSD analysis been conducted per matrix in the sample group? (Yes) No N/A

Are MS/MSD recoveries within specification? (Yes) No N/A

Are there any calculation errors? Yes (No) N/A

ACTION: If an MS/MSD analysis has not been conducted contact the laboratory for an explanation. Review the MS/MSD recoveries in conjunction with other QC data such as surrogate recoveries and note the results in the validation narrative. If MS/MSD recoveries are out of specification and sample concentration is >5 times the spike concentration, no qualification is required, otherwise qualify results as follows: Qualify positive results for the specific class of compound (aromatics and non-aromatics) as estimated (J) in all samples if associated surrogates are also out of specification. The qualification shall only be done on samples of similar matrix as the MS/MSD samples. If it is determined from the review that only the spiked samples are affected by low recoveries, qualify only the results for the spiked sample as described above. If it is determined from the review that out of specification MS/MSD recoveries are indicative of systematic problems in the laboratory such as sample preparation or sample-specific matrix interferences this must be noted in the validation narrative along with the potential affect on the sample results.

5.3 PERFORMANCE AUDIT SAMPLES

Are the performance audit sample results within the acceptance limits? Yes No (N/A)

ACTION: Note the results of the performance audit sample in the validation narrative.

6. PRECISION

6.1 MATRIX SPIKE/MATRIX SPIKE DUPLICATES

Are RPD values within specification? (Yes) No N/A

Are there any calculation errors? Yes (No) N/A

ACTION: Review the MS/MSD results in conjunction with other QC data such as field duplicates and note the results in the validation narrative. If MS/MSD RPDs are out of specification and sample results are >5xCRQL qualify positive results for the specific class of compound (aromatics and non-aromatics) as estimated (J). If it is determined from the review that out of specification MS/MSD results are indicative of systematic problems in the laboratory such as sample preparation or sample-specific matrix interferences this must be noted in the validation narrative along with the potential affect on the sample results.

6.2 FIELD DUPLICATE SAMPLES

Are field duplicate RPD values acceptable? Yes No (N/A)

ACTION: Note the results of the field duplicate samples in the validation narrative.

6.3 FIELD SPLIT SAMPLES

Are field split RPD values acceptable? Yes No (N/A)

ACTION: Note the results of the field split samples in the validation narrative.

7. SYSTEM PERFORMANCE

7.1 INTERNAL STANDARDS PERFORMANCE

Are any internal standard area counts outside the acceptance limits? (Yes) No N/A

Are retention times for any internal standard outside the ±30 second windows established by the most recent calibration check? Yes (No) N/A

ACTION: If the area counts are outside the acceptance limits qualify all associated results as estimated (J for detects or UJ for nondetects). If it is determined from the review that out of specification area counts and relative retention times are indicative of systematic problems within the laboratory the reviewer may consider rejection of all affected sample data (R).

8. COMPOUND IDENTIFICATION AND QUANTITATION

8.1 COMPOUND IDENTIFICATION

Are detected compounds within ±0.06 relative retention time units of the associated calibration standard?	Yes	No	N/A
Are all ions at a relative intensity of ≥10% in the standard spectra present in the sample spectra?	Yes	No	N/A
Do the relative intensities between the standard and sample spectra agree within 20%?	Yes	No	N/A
Have all ions >10% in the sample spectra that are not present in the standard spectra been reviewed for possible background contamination?	Yes	No	N/A
Are molecular ions present in the reference spectrum present in the sample spectrum?	Yes	No	N/A

ACTION: If compound identification is in error and retention time and mass spectral criteria are exceeded qualify all affected positive results as unusable (R). If cross-contamination between analyses is suspected, qualify affected data as unusable (R). Note the results in the validation narrative.

8.2 REPORTED RESULTS AND QUANTITATION LIMITS

Has the laboratory used the correct RRF values and internal standard(s) for quantitation?	Yes	No	N/A
Are results and quantitation limits calculated properly?	Yes	No	N/A
Has the laboratory reported the sample quantitation limits within 5xCRQL values?	Yes	No	N/A

ACTION: If the results and quantitation limits are in error contact the laboratory for clarification and note in the validation narrative.

8.3 TENTATIVELY IDENTIFIED COMPOUNDS (TIC)

Has the laboratory conducted a spectral library search on all candidate TIC peaks in accordance with the analytical SOW?	Yes	No	N/A
Has the laboratory properly identified and coded all TIC?	Yes	No	N/A

ACTION: If the laboratory has failed to search the minimum number of TIC peaks in the chromatogram contact the laboratory for submittal of the required data. Qualify as nondetects (U) all TIC compounds present in samples and blanks using the review criteria specified in the validation requirements. If TIC identification is in error sample results should be qualified as nondetects (U) or unusable (R). If TIC identifications are judged valid, qualify the results as presumptive and estimated (JN).

9. OVERALL ASSESSMENT AND SUMMARY

Has the laboratory conducted the analysis in accordance with the analytical SOW?	(Yes)	No	N/A
Were project specific data quality objectives met for this analysis?	Yes	No	(N/A)

ACTION: Summarize all the data qualifications recommended in the foregoing sections, and complete the data validation narrative according to the requirements of Section 10.0 of the data validation requirements.

COMMENTS (attach additional sheets as necessary):

- Matrix interference exhibited (non-homogeneous samples) ~~by~~ in samples B00ZB9 and B00ZS0 resulting in surrogate recoveries and ~~matrix~~ internal standard areas outside QC limits. All associated data has been flagged J per DV guidelines.

5. ACCURACY

5.1 SURROGATE RECOVERY

Are any surrogate recoveries out of specification?	Yes	No	N/A
Do any samples show nondetects for surrogates?	Yes	No	N/A
Are any method blank surrogates out of specification?	Yes	No	N/A

ACTION: Qualify all associated sample results as estimated (J for detects and UJ for nondetects) for surrogates out of specification. If the surrogate was not detected (0% recovery) in the sample qualify associated nondetects as unusable (R). If method blank surrogates are out of specification and sample surrogates are acceptable, no qualification is required however, the laboratory should be contacted for an explanation.

5.2 MATRIX SPIKE RECOVERY

Has the laboratory analyzed a MS/MSD per matrix for the the sample group?	Yes	No	N/A
Are MS/MSD recoveries within specification?	Yes	No	N/A
Are there any calculation or transcription errors?	Yes	No	N/A

ACTION: If MS/MSD analyses have not been conducted contact the laboratory for clarification. Review the MS/MSD recoveries in conjunction with other QC data such as surrogate recoveries and note the results in the validation narrative. If MS/MSD recoveries are out of specification and sample concentration is >5 times the spike concentration, no qualification is required, otherwise qualify results as follows: Qualify positive results as estimated (J) in all samples if associated surrogates are also out of specification. The qualification shall only be done on samples of similar matrix as the MS/MSD samples. If it is determined from the review that only the spiked samples are affected by the low recoveries, qualify only the results for the spiked sample as described above. If it is determined from the review that out of specification MS/MSD recoveries are indicative of systematic problems in the laboratory such as sample preparation or sample-specific matrix interferences this must be noted in the validation narrative along with the potential affect on the sample results.

5.3 PERFORMANCE AUDIT SAMPLES

Are performance audit sample results within the acceptance limits?	Yes	No	N/A

ACTION: Note the results of the performance audit samples in the validation narrative.

6. PRECISION

6.1 MATRIX SPIKE/MATRIX SPIKE DUPLICATE SAMPLES

Are the RPD values within specification? (Yes) No N/A

ACTION: Review the MS/MSD results in conjunction with other QC data such as field duplicates and note the results in the validation narrative. If MS/MSD RPD values are out of specification and sample results are >5xCRQL qualify positive results as estimated (J). If it is determined from the review that out of specification MS/MSD results are indicative of systematic problems in the laboratory such as sample preparation or sample-specific matrix interferences this must be noted in the validation narrative along with the potential affect on the sample results.

6.2 FIELD DUPLICATE SAMPLES

Are field duplicate RPD values acceptable? (Yes) No N/A

ACTION: Note the results of the field duplicate samples in the validation narrative.

6.3 FIELD SPLIT SAMPLES

Are field split RPD values acceptable? (Yes) No N/A

ACTION: Note the results of the field split samples in the validation narrative.

7. COMPOUND IDENTIFICATION AND QUANTITATION

7.1 COMPOUND IDENTIFICATION

Do positive results meet the retention time window criteria? Yes No (N/A)

Were positive results analyzed on disimilar columns? Yes (No) N/A

If dieldrin and DDE were reported was a 3% OV-1 column used for confirmation (2/88 SOW data only)? Yes No (N/A)

Do retention times and relative peak height ratios match the expected patterns for multipeak compounds (PCB, toxaphene or chlordane)? Yes No (N/A)

Has GC/MS confirmation been conducted on sample extract concentrations > 10 ppm? Yes No (N/A)

ACTION: If positive results do not meet the retention time criteria qualify all detected results as nondetects as follows: If the misidentified peak is outside the retention time windows and no interferences are noted report the CRQL and if the misidentified peak interferes with a target peak then the report value is qualified as estimated and nondetected (UJ). If positive results were not confirmed on disimilar columns, reject affected results (R). If a 3% OV-1 was used to confirm dieldrin and DDE, reject the affected data (R). If PCB, chlordane or toxaphene identification is questionable qualify the results as presumptive and estimated (NJ). If GC/MS confirmation was not conducted contact the laboratory for explanation and note in the validation narrative.

7.2 REPORTED RESULTS AND QUANTITATION LIMITS

Are results and quantitation limits calculated properly?	Yes	No	N/A
Has the laboratory reported the sample quantitation limits within 5xCRQL values?	Yes	No	N/A

ACTION: If results and quantitation limits are in error contact the laboratory for clarification and note in the validation narrative.

8. OVERALL ASSESSMENT AND SUMMARY

RB 3/22/93

Has the laboratory conducted the analysis in accordance with the analytical SOW?	~~Yes~~	No	N/A
Were project specific data quality objectives met for this analysis?	Yes	No	N/A

ACTION: Summarize all the data qualifications and complete the data validation narrative as specified in Section 10.0 of the data validation requirements.

VOLATILE ORGANIC DATA VALIDATION CHECKLIST - FORM A-1

PROJECT: Westinghouse-Hanford	REVIEWER: PBD	DATE: 3-19-93
LABORATORY: Datachem	CASE:	SDG: B00ZQ4
SAMPLES/MATRIX: 24 Soil samples: B00ZQ4, B00ZQ5, B00ZQ6, B00ZQ7, B00ZQ8, B00ZQ9, B00ZR0, B00ZR1, B00ZR2, B00ZR3, B00ZR4, B00ZR5, B00ZR6, B00ZR7, B00ZR8, B00ZR9, B00ZS0, B00ZS1, B00ZS2, B00ZS3, B00ZS4, B00ZS5, B00ZS7 and B00ZS8 - * Method 8240		

* No VOA vial for B00ZS6

1. DATA PACKAGE COMPLETENESS

Review the data package for completeness and check off the items below. If any data review elements are missing contact the laboratory for submittal.

Data Package Item	Present?: Yes	No	N/A
Case Narrative	✓		
Data Summary		✓	
Chain-of-Custody		✓	
QC Summary			
Surrogate report	✓		
MS/MSD report	✓		
Blank summary report	✓		
GC/MS tuning report	✓		
Internal standard summary report	✓		
Sample Data			
Sample reports	✓		
TIC reports for each sample	✓		
RIC reports for all samples	✓		
Raw and corrected spectra for all detected results	✓		
Raw and corrected library search data for all reported TIC	✓		
Quantitation and calculation data for all TIC	✓		
Standards Data			
Initial calibration report	✓		
RIC and quantitation reports for initial calibration	✓		
Continuing calibration reports	✓		
RIC and quantitation reports for cont. calibrations	✓		
Internal standard summary report	✓		
Raw QC Data			
Tuning report, spectra and mass lists	✓		
Blank analysis reports	✓		
TIC reports for all blanks	✓		
RIC and quantitation reports for blanks	✓		
Raw and corrected spectra for all detected results in blanks	✓		
Raw and corrected library search data for all reported TIC	✓		

Data Package Item	Present?: Yes	No	N/A
Quantitation and calculation data for all TIC	✓		
MS/MSD report forms	✓		
RIC and quantitation reports for MS/MSD	✓		
Additional Data			
Moisture/% solids data sheets		✓	
Reduction formulae		✓	
Instrument time logs		✓	
Chemist notebook pages		✓	
Sample preparation sheets		✓	

2. HOLDING TIMES

Complete the holding time summary form listing all samples and dates of collection and analysis.

Were all samples analyzed within holding time? (Yes) No N/A

ACTION: If any holding times were exceeded, but not by greater than a factor of two, qualify associated samples as estimated (J for detects or UJ for nondetects), otherwise reject all nondetects (R) and qualify all associated detects as estimated (J).

3. INSTRUMENT CALIBRATION, TUNING AND PERFORMANCE CHECKS

3.1 GC/MS TUNING AND PERFORMANCE CHECKS

Is a bromofluorobenzene tune report present for each applicable 12-h period? (Yes) No N/A

Do all tunes on all instruments meet the tuning criteria? (Yes) No N/A

Do all tunes on all instruments meet the expanded criteria? Yes No (N/A)

Has the laboratory made any calculation or transciption errors? Yes (No) N/A

Have the proper significant figures been reported? (Yes) No N/A

ACTION: If the mass calibration is out of specification but within the expanded criteria, qualify associated data as estimated (J for detects or UJ for nondetects). If all tuning criteria are missed, qualify all associated data as unusable (R).

3.2 INITIAL CALIBRATION

Is an initial calibration report provided for all instruments? (Yes) No N/A

Are all RSD values ≤30% (2/88 SOW)? (Yes) No N/A

Are all RRF values ≥0.05 (2/88 SOW)? (Yes) No (N/A) ~~N/A~~

RSD 3/19/93

Are all applicable RSD values ≤20.5% (3/90 SOW)?	Yes	No	N/A
Are all applicable RSD values ≤40% (3/90 SOW)?	Yes	No	N/A
Are all applicable RRF values within SOW limits (3/90 SOW)?	Yes	No	N/A
Are all erratic performance compound RRF values ≥0.01 (3/90 SOW)?	Yes	No	N/A

ACTION: With the exception of compounds that exhibit erratic performance and making allowances for up to two TCL compounds, if any RRF value is out of specification qualify all detected results for the particular compound as estimated (J) and all nondetects as unusable (R). Making allowances for up to two TCL compounds, if any RSD value is out of specification qualify all associated data as estimated (J for detects or UJ for nondetects).

3.3. CONTINUING CALIBRATION

Is a continuing calibration report present for all 12-h periods in which associated samples were analyzed?	Yes	No	N/A
Are all RRF values ≥0.05 (2/88 SOW)?	Yes	No	N/A
Are all %D values ≤25% (2/88 or 3/90 SOW)? – one outlier only	Yes	No	N/A
Are all %D values ≤40% (3/90 SOW)?	Yes	No	N/A
Are all RRF values within SOW limits (3/90 SOW)?	Yes	No	N/A
Are all erratic performance compound RRF values ≥0.01 (3/90 SOW)?	Yes	No	N/A

ACTION: With the exception of compounds that exhibit erratic performance and making allowances for up to two TCL compounds, if any RRF value is out of specification qualify all associated detected results as estimated and all nondetects as unusable (R). Making allowances for up to two TCL compounds, if any %D is out of specification, qualify all associated results as estimated (J for detects or UJ for nondetects).

4. BLANKS

4.1 LABORATORY BLANKS

Has the laboratory conducted a method blank analysis per matrix for every 12-h period in which samples were analyzed?	Yes	No	N/A
Are TCL compounds present in the laboratory blanks? Acetone	Yes	No	N/A

ACTION: Qualify all sample results ≤10 time the highest blank concentration for the common laboratory contaminants, as nondetects (U) or at the SQL if the result is <CRQL. Qualify all remaining sample results ≤5 times the blank concentration in similar fashion.

4.2. FIELD BLANKS

Are TCL compounds present in the field blanks? Yes No (N/A)

ACTION: Qualify all detected sample results ≤ 5 times the amount in any valid field blank as nondetects (U) and note the field blank results in the validation narrative.

5. ACCURACY

5.1 SURROGATE/SYSTEM MONITORING COMPOUND RECOVERY

Are any surrogate recoveries out of specification? (Yes) No N/A

Are any surrogate recoveries < 10%? Yes (No) N/A

Are any method blank surrogate recoveries out of specification? Yes (No) N/A

ACTION: Qualify all associated sample results as estimated (J for detects or UJ for nondetects) for surrogates out of specification but > 10%. Qualify all associated positive sample results as estimated (J) and all nondetect results as unusable (R) for all surrogates below 10%. If method blank surrogates are out of specification and the associated sample surrogates are acceptable no qualification is necessary, however, the laboratory should be contacted for an explanation.

5.2 MATRIX SPIKE RECOVERY

Has an MS/MSD analysis been conducted per matrix in the sample group? (Yes) No N/A

Are MS/MSD recoveries within specification? (Yes) No N/A

Are there any calculation errors? Yes (No) N/A

ACTION: If an MS/MSD analysis has not been conducted contact the laboratory for an explanation. Review the MS/MSD recoveries in conjunction with other QC data such as surrogate recoveries and note the results in the validation narrative. If MS/MSD recoveries are out of specification and sample concentration is > 5 times the spike concentration, no qualification is required, otherwise qualify results as follows: Qualify positive results for the specific class of compound (aromatics and non-aromatics) as estimated (J) in all samples if associated surrogates are also out of specification. The qualification shall only be done on samples of similar matrix as the MS/MSD samples. If it is determined from the review that only the spiked samples are affected by low recoveries, qualify only the results for the spiked sample as described above. If it is determined from the review that out of specification MS/MSD recoveries are indicative of systematic problems in the laboratory such as sample preparation or sample-specific matrix interferences this must be noted in the validation narrative along with the potential affect on the sample results.

5.3 PERFORMANCE AUDIT SAMPLES

Are the performance audit sample results within the acceptance limits? Yes No (N/A)

ACTION: Note the results of the performance audit sample in the validation narrative.

6. PRECISION

6.1 MATRIX SPIKE/MATRIX SPIKE DUPLICATES

Are RPD values within specification? (Yes) No N/A

Are there any calculation errors? Yes (No) N/A

ACTION: Review the MS/MSD results in conjunction with other QC data such as field duplicates and note the results in the validation narrative. If MS/MSD RPDs are out of specification and sample results are >5xCRQL qualify positive results for the specific class of compound (aromatics and non-aromatics) as estimated (J). If it is determined from the review that out of specification MS/MSD results are indicative of systematic problems in the laboratory such as sample preparation or sample-specific matrix interferences this must be noted in the validation narrative along with the potential affect on the sample results.

6.2 FIELD DUPLICATE SAMPLES

Are field duplicate RPD values acceptable? Yes No (N/A)

ACTION: Note the results of the field duplicate samples in the validation narrative.

6.3 FIELD SPLIT SAMPLES

Are field split RPD values acceptable? Yes No (N/A)

ACTION: Note the results of the field split samples in the validation narrative.

7. SYSTEM PERFORMANCE

7.1 INTERNAL STANDARDS PERFORMANCE

Are any internal standard area counts outside the acceptance limits? (Yes) No N/A

Are retention times for any internal standard outside the ±30 second windows established by the most recent calibration check? Yes (No) N/A

ACTION: If the area counts are outside the acceptance limits qualify all associated results as estimated (J for detects or UJ for nondetects). If it is determined from the review that out of specification area counts and relative retention times are indicative of systematic problems within the laboratory the reviewer may consider rejection of all affected sample data (R).

8. COMPOUND IDENTIFICATION AND QUANTITATION

8.1 COMPOUND IDENTIFICATION

Are detected compounds within ±0.06 relative retention time units of the associated calibration standard?	Yes	No	N/A
Are all ions at a relative intensity of ≥10% in the standard spectra present in the sample spectra?	Yes	No	N/A
Do the relative intensities between the standard and sample spectra agree within 20%?	Yes	No	N/A
Have all ions >10% in the sample spectra that are not present in the standard spectra been reviewed for possible background contamination?	Yes	No	N/A
Are molecular ions present in the reference spectrum present in the sample spectrum?	Yes	No	N/A

ACTION: If compound identification is in error and retention time and mass spectral criteria are exceeded qualify all affected positive results as unusable (R). If cross-contamination between analyses is suspected, qualify affected data as unusable (R). Note the results in the validation narrative.

8.2 REPORTED RESULTS AND QUANTITATION LIMITS

Has the laboratory used the correct RRF values and internal standard(s) for quantitation?	Yes	No	N/A
Are results and quantitation limits calculated properly?	Yes	No	N/A
Has the laboratory reported the sample quantitation limits within 5xCRQL values?	Yes	No	N/A

ACTION: If the results and quantitation limits are in error contact the laboratory for clarification and note in the validation narrative.

8.3 TENTATIVELY IDENTIFIED COMPOUNDS (TIC)

Has the laboratory conducted a spectral library search on all candidate TIC peaks in accordance with the analytical SOW?	Yes	No	N/A
Has the laboratory properly identified and coded all TIC?	Yes	No	N/A

ACTION: If the laboratory has failed to search the minimum number of TIC peaks in the chromatogram contact the laboratory for submittal of the required data. Qualify as nondetects (U) all TIC compounds present in samples and blanks using the review criteria specified in the validation requirements. If TIC identification is in error sample results should be qualified as nondetects (U) or unusable (R). If TIC identifications are judged valid, qualify the results as presumpive and estimated (JN).

9. OVERALL ASSESSMENT AND SUMMARY

Has the laboratory conducted the analysis in accordance with the analytical SOW?	(Yes)	No	N/A
Were project specific data quality objectives met for this analysis?	Yes	No	(N/A)

ACTION: Summarize all the data qualifications recommended in the foregoing sections, and complete the data validation narrative according to the requirements of Section 10.0 of the data validation requirements.

COMMENTS (attach additional sheets as necessary):

- Matrix interference exhibited (non-homogeneous samples) ~~by s~~ in samples B00ZB9 and B00ZS0 resulting in surrogate recoveries and ~~matrix~~ internal standard areas outside QC limits. All associated data has been flagged J per DV guidelines.

SEMI-VOLATILE ORGANIC DATA VALIDATION CHECKLIST - FORM A-2

PROJECT: Westinghouse-Hanford	REVIEWER: RB	DATE: 3/18/93
LABORATORY: DATACHEM	CASE: N/A	SDG: B00ZQ4
SAMPLES/MATRIX: Twenty-~~five~~ four soils RB 5/7/93		

B00ZQ4	B00ZQ8	B00ZR2	B00ZR6	B00ZS0	B00ZS4	B00ZS8
B00ZQ5	B00ZQ9	B00ZR3	B00ZR7	B00ZS1	B00ZS5	
B00ZQ6	B00ZR0	B00ZR4	B00ZR8	B00ZS2	~~B00ZS6~~ RB 5/7/93	
B00ZQ7	B00ZR1	B00ZR5	B00ZR9	B00ZS3	B00ZS7	

1. DATA PACKAGE COMPLETENESS

Review the data package for completeness and check off the items below. If any data review elements are missing contact the laboratory for submittal.

Data Package Item	Present?: Yes	No	N/A
Case Narrative	✓		
Data Summary	✓		
Chain-of-Custody	✓		
QC Summary			
Surrogate report	✓		
MS/MSD report	✓		
Blank summary report		✓	
GC/MS tuning report	✓		
Internal standard summary report		✓	
Sample Data			
Sample reports	✓		
TIC reports for each sample	✓		
RIC reports for all samples	✓		
Raw and corrected spectra for all detected results	✓		
Raw and corrected library search data for all reported TIC	✓		
Quantitation and calculation data for all TIC	✓		
Standards Data			
Initial calibration report	✓		
RIC and quantitation reports for initial calibration	✓		
Continuing calibration reports	✓		
RIC and quantitation reports for cont. calibrations	✓		
Internal standard summary report	✓		
Raw QC Data			
Tuning report, spectra and mass lists	✓		
Blank analysis reports		✓	
TIC reports for all blanks			✓
RIC and quantitation reports for blanks	✓		✓ RB 3-18
Raw and corrected spectra for all detected results in blanks	RB 3-18 ✓		✓ RB 3/18
Raw and corrected library search data for all reported TIC	✓		✓ RB 3/18
Quantitation and calculation data for all TIC	✓		✓
MS/MSD report forms	✓		

Data Package Item	Present?: Yes	No	N/A
RIC and quantitation reports for MS/MSD	✓	—	—
Additional Data			
Moisture/% solids data sheets	—	✓	—
Reduction formulae	—	✓	—
Instrument time logs	✓	—	—
Chemist notebook pages	✓	—	—
Sample preparation sheets	✓	—	—

2. HOLDING TIMES

Were all samples extracted within holding time?	Yes	No	N/A
Were all samples analyzed within holding time?	Yes	No	N/A

ACTION: If any holding times were exceeded, but not by greater than a factor of two, qualify associated samples as estimated (J for detects or UJ for nondetects), otherwise reject all nondetects (R) and qualify all associated detects as estimated (J).

3. INSTRUMENT CALIBRATION, TUNING AND PERFORMANCE CHECKS

3.1 GC/MS TUNING AND PERFORMANCE CHECKS

Is a DFTPP tune report present for each applicable 12h period?	Yes	No	N/A
Do all tunes on all instruments meet the tuning criteria?	Yes	No	N/A
Do all tunes on all instruments meet the expanded criteria?	Yes	No	N/A
Has the laboratory made any calculation or transciption errors?	Yes	No	N/A
Have the proper significant figures been reported?	Yes	No	N/A

ACTION: If the mass calibration is out of specification but within the expanded criteria, qualify associated data as estimated (J for detects and UJ for nondetects). If all tuning criteria are not met, qualify all associated data as unusable (R).

3.2 INITIAL CALIBRATION

Is an initial calibration report provided for all instruments?	Yes	No	N/A
Are all RSD values ≤30% (2/88 SOW)?	~~Yes~~ RB 9/8	No	N/A
Are all RRF values ≥0.05 (2/88 SOW)?	Yes	No	N/A
Are all applicable RSD values ≤20.5% (3/90 SOW)?	Yes	No	N/A
Are all applicable RSD values ≤40% (3/90 SOW)?	Yes	No	N/A

Are all applicable RRF values within SOW limits (3/90 SOW)?	Yes	No	N/A
Are all erratic performance compound RRF values ≥0.01 (3/90 SOW)?	Yes	No	N/A

ACTION: With the exception of compounds that exhibit erratic performance and making allowances for up to four TCL compounds or surrogates, if any RRF value is out of specification qualify all detected results for the particular compound as estimated (J) and all nondetects as unusable (R). Making allowances for up to four TCL compounds or surrogates, if any RSD value is out of specification qualify all associated data as estimated (J for detects or UJ for nondetects).

3.3. CONTINUING CALIBRATION

Is a continuing calibration report present for all 12-h periods in which associated samples were analyzed?	Yes	No	N/A
Are all RRF values ≥0.05 (2/88 SOW)?	Yes	No	N/A
Are all %D values ≤25% (2/88 or 3/90 SOW)?	Yes	No	N/A
Are all %D values ≤40% (3/90 SOW)?	Yes	No	N/A
Are all RRF values within SOW limits (3/90 SOW)?	Yes	No	N/A
Are all erratic performance compound RRF values ≥0.01 (3/90 SOW)?	Yes	No	N/A

ACTION: With the exception of compounds that exhibit erratic performance and making allowances for up to four TCL compounds or surrogates, if any RRF value is out of specification qualify all associated detected results as estimated and all nondetects as unusable (R). Making allowances for up to four TCL compounds or surrogates, if any %D is out of specification, qualify all associated results as estimated (J for detects or UJ for nondetects).

4. BLANKS

4.1 LABORATORY BLANKS

Has the laboratory conducted a method blank analysis per matrix for every extraction batch?	Yes	No	N/A
Are compounds reported in the laboratory blanks?	Yes	No	N/A

ACTION: Qualify all sample results < 10 times the highest blank concentration for the common laboratory contaminants, as nondetects (U) or at the SQL if the result is <CRQL. Qualify all remaining sample results <5 times the blank concentration in similar fashion.

4.2. FIELD BLANKS

Are compounds reported in the field blanks? Yes No N/A

ACTION: Qualify all detected sample results ≤5 times the amount in any valid field blank as nondetects (U) and note the results of the field blanks in the validation narrative.

5. ACCURACY

5.1 SURROGATE RECOVERY/SYSTEM MONITORING COMPOUND RECOVERY

Are any surrogate recoveries out of specification? Yes No N/A

Are any surrogate recoveries < 10%? Yes No N/A

Are any method blank surrogate recoveries out of specification? Yes No N/A

ACTION: Qualify all associated data as estimated (J for detects and UJ for nondetects) if at least two semivolatile surrogates are out of specification. If any surrogate is below 10% recovery qualify associated detected results as estimated (J) and associated nondetect results as unusable (R). If method blank surrogates are out of specification and associated sample surrogates are acceptable no qualification is required, however, the laboratory should be contacted for an explanation.

5.2 MATRIX SPIKE RECOVERY

Has an MS/MSD analysis been conducted per matrix in the sample group? Yes No N/A

Are MS/MSD recoveries within specification? Yes No N/A

Are there any calculation errors? Yes No N/A

ACTION: If an MS/MSD analysis has not been conducted contact the laboratory for an explanation. Review the MS/MSD recoveries in conjunction with other QC data such as surrogate recoveries and note the results in the validation narrative. If MS/MSD recoveries are out of specification and sample concentration is >5 times the spike concentration, no qualification is required, otherwise qualify results as follows: Qualify positive results for the specific class of compound (aromatics and non-aromatics) as estimated (J) in all samples if associated surrogates are also out of specification. The qualification shall only be done on samples of similar matrix as the MS/MSD samples. If it is determined from the review that only the spiked samples are affected by low recoveries, qualify only the results for the spiked sample as described above. If it is determined from the review that out of specification MS/MSD recoveries are indicative of systematic problems in the laboratory such as sample preparation or sample-specific matrix interferences this must be noted in the validation narrative along with the potential affect on the sample results.

5.3 PERFORMANCE AUDIT SAMPLES

Are the results for the performance audit samples within the acceptance limits? Yes No N/A

ACTION: Note the results of the performance audit samples in the validation narrative.

6. PRECISION

6.1 MATRIX SPIKE/MATRIX SPIKE DUPLICATES

Are all RPD values within specification? Yes No N/A

Are there any calculation errors? Yes No N/A

ACTION: Review the MS/MSD results in conjunction with other QC data such as field duplicates and note the results in the validation narrative. If MS/MSD RPDs are out of specification and sample results are >5xCRQL qualify positive results for the specific class of compound (aromatics and non-aromatics) as estimated (J). If it is determined from the review that out of specification MS/MSD results are indicative of systematic problems in the laboratory such as sample preparation or sample-specific matrix interferences this must be noted in the validation narrative along with the potential affect on the sample results.

6.2 FIELD DUPLICATE SAMPLES

Are field duplicate RPD values acceptable? Yes No N/A

ACTION: Note the results of the field duplicate samples in the validation narrative.

6.3 FIELD SPLIT SAMPLES

Are field split RPD values acceptable? Yes No N/A

ACTION: Note the results of the field split samples in the validation narrative.

7. SYSTEM PERFORMANCE

7.1 INTERNAL STANDARDS PERFORMANCE

Are any internal standard area counts outside the acceptance limits? Yes No N/A

Are retention times for any internal standard outside the ±30 second windows established by the most recent calibration check? Yes No N/A

ACTION: If the area counts are outside the acceptance limits qualify all associated results as estimated (J for detects and UJ for nondetects. If it is determined from the review that out of specification area counts and relative retention times are indicative of systematic problems within the laboratory the reviewer may consider rejection of all affected sample data (R).

8. COMPOUND IDENTIFICATION AND QUANTITATION

8.1 COMPOUND IDENTIFICATION

Are detected compounds within ±0.06 relative retention time units of the associated calibration standard?	Yes	No	N/A
Are all ions at a relative intensity of ≥10% in the standard spectra present in the sample spectra?	Yes	No	N/A
Do the relative intensities between the standard and sample spectra agree within 20%?	Yes	No	N/A
Have all ions >10% in the sample spectra that are not present in the standard spectra been reviewed for possible background contamination?	Yes	No	N/A
Are molecular ions in the reference spectrum present in the sample spectrum?	Yes	No	N/A

ACTION: If compound identification is in error and retention time and mass spectral criteria are exceeded qualify all affected positive results as unusable (R). If cross-contamination between analyses is suspected, qualify affected data as unusable (R).

8.2 REPORTED RESULTS AND QUANTITATION LIMITS

Has the laboratory used the correct RRF values and internal standards for quantitation?	Yes	No	N/A
Are results and quantitation limits calculated properly?	Yes	No	N/A
Has the laboratory reported the sample quantitation limits within 5xCRQL values?	Yes	No	N/A

ACTION: If the quantitation limits are in error contact the laboratory for clarification and note in the validation narrative.

8.3 TENTATIVELY IDENTIFIED COMPOUNDS

Has the laboratory conducted a spectral library search on all candidate TIC peaks in accordance with the analytical SOW?	Yes	No	N/A
Has the laboratory properly identified and coded all TIC?	Yes	No	N/A

ACTION: If the laboratory has failed to search the minimum number of TIC peaks in the chromatogram contact the laboratory for submittal of the required data. Qualify as nondetects (U) all TIC compounds present in samples and blanks using the review criteria specified in the validation requirements. If TIC identification is in error sample results should be qualified as nondetects (U) or unusable (R). If TIC identifications are judged valid, qualify the results as presumptive and estimated (JN).

9. OVERALL ASSESSMENT AND SUMMARY

Has the laboratory conducted the analysis in accordance with the analytical SOW?	Yes	No	N/A
Were project specific data quality objectives met for this analysis?	Yes	No	N/A

ACTION: Summarize all the data qualifications and complete the data validation narrative as specified in Section 10.0 of the data validation requirements.

COMMENTS (attach additional sheets as necessary): 4-nitrophenol MS/MSD are out of spec for both analyses; three of four ~~recov~~ spiked results showed nondetects for this compound. No qualification was made but the lab should be contacted for an explanation.

Internal standard summary forms are missing. The lab should be contacted for an explanation. ~~All data are rejected because of this. All data are there~~

Sample B00ZR9 is listed in the log as run 10/3/91 while its appropriate MSC says that it was run on 9/30/91 at 18:46. The same applies for sample B00ZR5.

CCV and raw calibration data are missing for the run on 9/30/91 at 9:06. All associated samples are rejected and flagged "R." (B00ZS9, B00ZQ8)

SEMI-VOLATILE ORGANIC DATA VALIDATION CHECKLIST - FORM A-2

PROJECT: Westinghouse-Hanford	REVIEWER: RB	DATE: 3/18/93
LABORATORY: DATACHEM	CASE: N/A	SDG: B00ZQ4
SAMPLES/MATRIX: Twenty-~~five~~ four soils RB 5/7/93		

B00ZQ4	B00ZQ8	B00ZR2	B00ZR6	B00ZS0	B00ZS4	B00ZS8
B00ZQ5	B00ZQ9	B00ZR3	B00ZR7	B00ZS1	B00ZS5	
B00ZQ6	B00ZR0	B00ZR4	B00ZR8	B00ZS2	~~B00ZS6~~	RB 5/7/93
B00ZQ7	B00ZR1	B00ZR5	B00ZR9	B00ZS3	B00ZS7	

1. DATA PACKAGE COMPLETENESS

Review the data package for completeness and check off the items below. If any data review elements are missing contact the laboratory for submittal.

Data Package Item	Present?: Yes	No	N/A	
Case Narrative	✓	—	—	
Data Summary	✓	—	—	
Chain-of-Custody	✓	—	—	
QC Summary				
Surrogate report	✓	—	—	
MS/MSD report	✓	—	—	
Blank summary report	—	✓	—	
GC/MS tuning report	✓	—	—	
Internal standard summary report	—	✓	—	
Sample Data				
Sample reports	✓	—	—	
TIC reports for each sample	✓	—	—	
RIC reports for all samples	✓	—	—	
Raw and corrected spectra for all detected results	✓	—	—	
Raw and corrected library search data for all reported TIC	✓	—	—	
Quantitation and calculation data for all TIC	✓	—	—	
Standards Data				
Initial calibration report	✓	—	—	
RIC and quantitation reports for initial calibration	✓	—	—	
Continuing calibration reports	✓	—	—	
RIC and quantitation reports for cont. calibrations	✓	—	—	
Internal standard summary report	✓	—	—	
Raw QC Data				
Tuning report, spectra and mass lists	✓	✓	—	
Blank analysis reports	—	—	—	
TIC reports for all blanks	—	—	✓	
RIC and quantitation reports for blanks	✓	—	✗	RB 3-18
Raw and corrected spectra for all detected results in blanks	RB 3-18 ✓	—	✗	RB 3/18
Raw and corrected library search data for all reported TIC	✓	—	✗	RB 3/18
Quantitation and calculation data for all TIC	✓	—	✓	
MS/MSD report forms	✓	—	—	

Data Package Item	Present?: Yes	No	N/A
RIC and quantitation reports for MS/MSD	✓	—	—
Additional Data			
Moisture/% solids data sheets	—	✓	—
Reduction formulae	—	✓	—
Instrument time logs	✓	—	—
Chemist notebook pages	✓	—	—
Sample preparation sheets	✓	—	—

2. HOLDING TIMES

Were all samples extracted within holding time?	(Yes)	No	N/A
Were all samples analyzed within holding time?	(Yes)	No	N/A

ACTION: If any holding times were exceeded, but not by greater than a factor of two, qualify associated samples as estimated (J for detects or UJ for nondetects), otherwise reject all nondetects (R) and qualify all associated detects as estimated (J).

3. INSTRUMENT CALIBRATION, TUNING AND PERFORMANCE CHECKS

3.1 GC/MS TUNING AND PERFORMANCE CHECKS

Is a DFTPP tune report present for each applicable 12h period?	(Yes)	No	N/A
Do all tunes on all instruments meet the tuning criteria?	(Yes)	No	N/A
Do all tunes on all instruments meet the expanded criteria?	(Yes)	No	N/A
Has the laboratory made any calculation or transciption errors?	Yes	(No)	N/A
Have the proper significant figures been reported?	(Yes)	No	N/A

ACTION: If the mass calibration is out of specification but within the expanded criteria, qualify associated data as estimated (J for detects and UJ for nondetects). If all tuning criteria are not met, qualify all associated data as unusable (R).

3.2 INITIAL CALIBRATION

Is an initial calibration report provided for all instruments?	(Yes)	No	N/A
Are all RSD values ≤30% (2/88 SOW)?	~~Yes~~ RB 9-18	(No)	N/A
Are all RRF values ≥0.05 (2/88 SOW)?	Yes	(No)	N/A
Are all applicable RSD values ≤20.5% (3/90 SOW)?	Yes	No	(N/A)
Are all applicable RSD values ≤40% (3/90 SOW)?	Yes	No	(N/A)

Are all applicable RRF values within SOW limits (3/90 SOW)?	Yes	No	N/A
Are all erratic performance compound RRF values ≥0.01 (3/90 SOW)?	Yes	No	N/A

ACTION: With the exception of compounds that exhibit erratic performance and making allowances for up to four TCL compounds or surrogates, if any RRF value is out of specification qualify all detected results for the particular compound as estimated (J) and all nondetects as unusable (R). Making allowances for up to four TCL compounds or surrogates, if any RSD value is out of specification qualify all associated data as estimated (J for detects or UJ for nondetects).

3.3. CONTINUING CALIBRATION

Is a continuing calibration report present for all 12-h periods in which associated samples were analyzed?	Yes	No	N/A
Are all RRF values ≥0.05 (2/88 SOW)?	Yes	No	N/A
Are all %D values ≤25% (2/88 or 3/90 SOW)?	Yes	No	N/A
Are all %D values ≤40% (3/90 SOW)?	Yes	No	N/A
Are all RRF values within SOW limits (3/90 SOW)?	Yes	No	N/A
Are all erratic performance compound RRF values ≥0.01 (3/90 SOW)?	Yes	No	N/A

ACTION: With the exception of compounds that exhibit erratic performance and making allowances for up to four TCL compounds or surrogates, if any RRF value is out of specification qualify all associated detected results as estimated and all nondetects as unusable (R). Making allowances for up to four TCL compounds or surrogates, if any %D is out of specification, qualify all associated results as estimated (J for detects or UJ for nondetects).

4. BLANKS

4.1 LABORATORY BLANKS

Has the laboratory conducted a method blank analysis per matrix for every extraction batch?	Yes	No	N/A
Are compounds reported in the laboratory blanks?	Yes	No	N/A

ACTION: Qualify all sample results < 10 times the highest blank concentration for the common laboratory contaminants, as nondetects (U) or at the SQL if the result is <CRQL. Qualify all remaining sample results <5 times the blank concentration in similar fashion.

4.2. FIELD BLANKS

Are compounds reported in the field blanks? Yes No N/A

ACTION: Qualify all detected sample results ≤ 5 times the amount in any valid field blank as nondetects (U) and note the results of the field blanks in the validation narrative.

5. ACCURACY

5.1 SURROGATE RECOVERY/SYSTEM MONITORING COMPOUND RECOVERY

Are any surrogate recoveries out of specification? Yes No N/A

Are any surrogate recoveries < 10%? Yes No N/A

Are any method blank surrogate recoveries out of specification? Yes No N/A

ACTION: Qualify all associated data as estimated (J for detects and UJ for nondetects) if at least two semivolatile surrogates are out of specification. If any surrogate is below 10% recovery qualify associated detected results as estimated (J) and associated nondetect results as unusable (R). If method blank surrogates are out of specification and associated sample surrogates are acceptable no qualification is required, however, the laboratory should be contacted for an explanation.

5.2 MATRIX SPIKE RECOVERY

Has an MS/MSD analysis been conducted per matrix in the sample group? Yes No N/A

Are MS/MSD recoveries within specification? Yes No N/A

Are there any calculation errors? Yes No N/A

ACTION: If an MS/MSD analysis has not been conducted contact the laboratory for an explanation. Review the MS/MSD recoveries in conjunction with other QC data such as surrogate recoveries and note the results in the validation narrative. If MS/MSD recoveries are out of specification and sample concentration is >5 times the spike concentration, no qualification is required, otherwise qualify results as follows: Qualify positive results for the specific class of compound (aromatics and non-aromatics) as estimated (J) in all samples if associated surrogates are also out of specification. The qualification shall only be done on samples of similar matrix as the MS/MSD samples. If it is determined from the review that only the spiked samples are affected by low recoveries, qualify only the results for the spiked sample as described above. If it is determined from the review that out of specification MS/MSD recoveries are indicative of systematic problems in the laboratory such as sample preparation or sample-specific matrix interferences this must be noted in the validation narrative along with the potential affect on the sample results.

5.3 PERFORMANCE AUDIT SAMPLES

Are the results for the performance audit samples within the acceptance limits? Yes No N/A

ACTION: Note the results of the performance audit samples in the validation narrative.

6. PRECISION

6.1 MATRIX SPIKE/MATRIX SPIKE DUPLICATES

Are all RPD values within specification? Yes No N/A

Are there any calculation errors? Yes No N/A

ACTION: Review the MS/MSD results in conjunction with other QC data such as field duplicates and note the results in the validation narrative. If MS/MSD RPDs are out of specification and sample results are >5xCRQL qualify positive results for the specific class of compound (aromatics and non-aromatics) as estimated (J). If it is determined from the review that out of specification MS/MSD results are indicative of systematic problems in the laboratory such as sample preparation or sample-specific matrix interferences this must be noted in the validation narrative along with the potential affect on the sample results.

6.2 FIELD DUPLICATE SAMPLES

Are field duplicate RPD values acceptable? Yes No N/A

ACTION: Note the results of the field duplicate samples in the validation narrative.

6.3 FIELD SPLIT SAMPLES

Are field split RPD values acceptable? Yes No N/A

ACTION: Note the results of the field split samples in the validation narrative.

7. SYSTEM PERFORMANCE

7.1 INTERNAL STANDARDS PERFORMANCE

Are any internal standard area counts outside the acceptance limits? Yes No N/A

Are retention times for any internal standard outside the ±30 second windows established by the most recent calibration check? Yes No N/A

ACTION: If the area counts are outside the acceptance limits qualify all associated results as estimated (J for detects and UJ for nondetects. If it is determined from the review that out of specification area counts and relative retention times are indicative of systematic problems within the laboratory the reviewer may consider rejection of all affected sample data (R).

8. COMPOUND IDENTIFICATION AND QUANTITATION

8.1 COMPOUND IDENTIFICATION

Are detected compounds within ±0.06 relative retention time units of the associated calibration standard?	Yes	No	N/A
Are all ions at a relative intensity of ≥10% in the standard spectra present in the sample spectra?	Yes	No	N/A
Do the relative intensities between the standard and sample spectra agree within 20%?	Yes	No	N/A
Have all ions >10% in the sample spectra that are not present in the standard spectra been reviewed for possible background contamination?	Yes	No	N/A
Are molecular ions in the reference spectrum present in the sample spectrum?	Yes	No	N/A

ACTION: If compound identification is in error and retention time and mass spectral criteria are exceeded qualify all affected positive results as unusable (R). If cross-contamination between analyses is suspected, qualify affected data as unusable (R).

8.2 REPORTED RESULTS AND QUANTITATION LIMITS

Has the laboratory used the correct RRF values and internal standards for quantitation?	Yes	No	N/A
Are results and quantitation limits calculated properly?	Yes	No	N/A
Has the laboratory reported the sample quantitation limits within 5xCRQL values?	Yes	No	N/A

ACTION: If the quantitation limits are in error contact the laboratory for clarification and note in the validation narrative.

8.3 TENTATIVELY IDENTIFIED COMPOUNDS

Has the laboratory conducted a spectral library search on all candidate TIC peaks in accordance with the analytical SOW?	Yes	No	N/A
Has the laboratory properly identified and coded all TIC?	Yes	No	N/A

ACTION: If the laboratory has failed to search the minimum number of TIC peaks in the chromatogram contact the laboratory for submittal of the required data. Qualify as nondetects (U) all TIC compounds present in samples and blanks using the review criteria specified in the validation requirements. If TIC identification is in error sample results should be qualified as nondetects (U) or unusable (R). If TIC identifications are judged valid, qualify the results as presumptive and estimated (JN).

9. OVERALL ASSESSMENT AND SUMMARY

Has the laboratory conducted the analysis in accordance with the analytical SOW?	Yes	No	N/A
Were project specific data quality objectives met for this analysis?	Yes	No	N/A

ACTION: Summarize all the data qualifications and complete the data validation narrative as specified in Section 10.0 of the data validation requirements.

COMMENTS (attach additional sheets as necessary): 4-nitrophenol MS/MSD are out of spec for both analyses; three of four ~~recov~~ spiked results showed nondetects for this compound. No qualification was made but the lab should be contacted for an explanation.

Internal standard summary forms are missing. The lab should be contacted for an explanation. ~~All data are rejected because of this. All data are thus~~

Sample B00Z19 is listed in the log as run 10/3/91 while its appropriate MSC says that it was run on 9/30/91 at 18:46. The same applies for sample B00Z25.

CCV and raw calibration data are missing for the run on 9/30/91 at 9:06. All associated samples are rejected and flagged "R." (B00Z59, B00Z9t)