H0492-TMA/RECRA

0052703

RECRA ENVIRONMENTAL INC.

Chemical and Environmental Measurement Information

Recra LabNet Philadelphia
Analytical Report
****REVISION****

Client : TNU-HANFORD B99-078
RFW# : 9908L778
SDG/SAF #: H0492/B99-078

W.O. #: 10985-001-001-9999-00
Date Received: 08-18-99

RECEIVED MAR 20 2000 EDMC

SEMIVOLATILE

This narrative was corrected to add the TIC search for Tributylphosphate.

Seven (7) soil samples were collected on 08-16-99.

The samples and their associated QC samples were extracted on 08-25-99 and analyzed according to criteria set forth in Recra OPs based on SW 846 Method 8270B for TCL Semivolatile target compounds on 09-03,09-99.

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

1. The cooler temperature upon receipt has been recorded on the chain-of-custody.
2. The required holding times for extraction and analysis were met.
3. Non-target compounds were detected in the samples.
4. All surrogate recoveries were within EPA QC limits.
5. All matrix spike recoveries were within EPA QC limits.
6. All blank spike recoveries were within EPA QC limits.
7. A spectral search was conducted for the compound Butylated Hydroxytoluene and Tributylphosphate; these compounds were not identified in the samples.

FEB 2000 RECEIVED Data Log In

J. Michael Taylor
Vice President
Philadelphia Analytical Laboratory

01-22-00
Date

som\gorup\data\bna\tnu08778.doc

The results presented in this report relate only to the analytical testing and conditions of the samples at receipt and during storage. All pages of this report are integral parts of the analytical data. Therefore, this report should only be reproduced in its entirety of 17 pages.

208 Welsh Pool Road • Lionville, PA 19341-1333 • (610) 280-3000 • Fax (610) 280-3041

GLOSSARY OF BNA DATA

DATA QUALIFIERS

U	=	Compound was analyzed for but not detected. The associated numerical value is the estimated sample quantitation limit which is included and corrected for dilution and percent moisture.
J	=	Indicates an estimated value. This flag is used under the following circumstances: 1) when estimating a concentration for tentatively identified compounds (TICs) where a 1:1 response is assumed; or 2) when the mass spectral data indicate the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero. For example, if the limit of detection is 10 ug/L and a concentration of 3 ug/L is calculated, it is reported as 3J.
B	=	This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates possible/probable blank contamination. This flag is also used for a TIC as well as for a positively identified TCL compound.
E	=	Indicates that the compound was detected beyond the calibration range and was subsequently analyzed at a dilution.
D	=	Identifies all compounds identified in an analysis at a secondary dilution factor.
I	=	Interference.
NQ	=	Result qualitatively confirmed but not able to quantify.
A	=	Indicates that a TIC is a suspected aldol-condensation product.
N	=	Indicates presumptive evidence of a compound. This flag is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It is applied to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the N code is not used.
X	=	This flag is used for a TIC compound which is quantified relative to a response factor generated from a daily calibration standard (rather than quantified relative to the closest internal standard).
Y	=	Additional qualifiers used as required are explained in the case narrative.

mmz\10-94\gloss.bna

GLOSSARY OF BNA DATA

ABBREVIATIONS

BS	=	Indicates blank spike in which reagent grade water is spiked with the CLP matrix spike solutions and carried through all the steps in the method. Spike recoveries are reported.
BSD	=	Indicates blank spike duplicate.
MS	=	Indicates matrix spike.
MSD	=	Indicates matrix spike duplicate.
DL	=	Suffix added to sample number to indicate that results are from a diluted analysis.
NA	=	Not Applicable.
DF	=	Dilution Factor.
NR	=	Not Required.
SP, Z	=	Indicates Spiked Compound.

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Recra LabNet - Lionville Laboratory

Semivolatiles by GC/MS, HSL List

Report Date: 09/20/99 18:38

RFW Batch Number: **9908L778** Client: **TNU-HANFORD B99-078** Work Order: 10985001001 Page: 1a

	Cust ID:	B0W541		B0W541		B0W541		B0W540		B0W537		B0W536	
Sample Information	RFW#:	001		001 MS		001 MSD		002		003		004	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	D.F.:	1.00		1.00		1.00		1.00		1.00		1.00	
	Units:	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
Surrogate Recovery	Nitrobenzene-d5	66	%	74	%	75	%	71	%	64	%	65	%
	2-Fluorobiphenyl	68	%	75	%	75	%	71	%	64	%	63	%
	Terphenyl-d14	82	%	82	%	80	%	76	%	72	%	72	%
	Phenol-d5	65	%	74	%	78	%	71	%	63	%	62	%
	2-Fluorophenol	67	%	76	%	79	%	74	%	66	%	66	%
	2,4,6-Tribromophenol	59	%	73	%	75	%	59	%	49	%	55	%
			fl		fl		fl		fl		fl		fl
Phenol		350	U	76	%	76	%	340	U	340	U	340	U
bis(2-Chloroethyl)ether		350	U	350	U	350	U	340	U	340	U	340	U
2-Chlorophenol		350	U	71	%	71	%	340	U	340	U	340	U
1,3-Dichlorobenzene		350	U	350	U	350	U	340	U	340	U	340	U
1,4-Dichlorobenzene		350	U	73	%	71	%	340	U	340	U	340	U
1,2-Dichlorobenzene		350	U	350	U	350	U	340	U	340	U	340	U
2-Methylphenol		350	U	350	U	350	U	340	U	340	U	340	U
2,2'-oxybis(1-Chloropropane)		350	U	350	U	350	U	340	U	340	U	340	U
4-Methylphenol		350	U	350	U	350	U	340	U	340	U	340	U
N-Nitroso-di-n-propylamine		350	U	81	%	81	%	340	U	340	U	340	U
Hexachloroethane		350	U	350	U	350	U	340	U	340	U	340	U
Nitrobenzene		350	U	350	U	350	U	340	U	340	U	340	U
Isophorone		350	U	350	U	350	U	340	U	340	U	340	U
2-Nitrophenol		350	U	350	U	350	U	340	U	340	U	340	U
2,4-Dimethylphenol		350	U	350	U	350	U	340	U	340	U	340	U
bis(2-Chloroethoxy)methane		350	U	350	U	350	U	340	U	340	U	340	U
2,4-Dichlorophenol		350	U	350	U	350	U	340	U	340	U	340	U
1,2,4-Trichlorobenzene		350	U	75	%	74	%	340	U	340	U	340	U
Naphthalene		350	U	350	U	350	U	340	U	340	U	340	U
4-Chloroaniline		350	U	350	U	350	U	340	U	340	U	340	U
Hexachlorobutadiene		350	U	350	U	350	U	340	U	340	U	340	U
4-Chloro-3-methylphenol		350	U	68	%	68	%	340	U	340	U	340	U
2-Methylnaphthalene		350	U	350	U	350	U	340	U	340	U	340	U
Hexachlorocyclopentadiene		350	U	350	U	350	U	340	U	340	U	340	U
2,4,6-Trichlorophenol		350	U	350	U	350	U	340	U	340	U	340	U
2,4,5-Trichlorophenol		870	U	870	U	870	U	860	U	860	U	860	U

*= Outside of EPA CLP QC limits.

05

Cust ID:	B0W541		B0W541		B0W541		B0W540		B0W537		B0W536	
RFW#:	001		001 MS		001 MSD		002		003		004	
2-Chloronaphthalene	350	U	350	U	350	U	340	U	340	U	340	U
2-Nitroaniline	870	U	870	U	870	U	860	U	860	U	860	U
Dimethylphthalate	350	U	350	U	350	U	340	U	340	U	340	U
Acenaphthylene	350	U	350	U	350	U	340	U	340	U	340	U
2,6-Dinitrotoluene	350	U	350	U	350	U	340	U	340	U	340	U
3-Nitroaniline	870	U	870	U	870	U	860	U	860	U	860	U
Acenaphthene	350	U	78	%	76	%	340	U	340	U	340	U
2,4-Dinitrophenol	870	U	870	U	870	U	860	U	860	U	860	U
4-Nitrophenol	870	U	56	%	58	%	860	U	860	U	860	U
Dibenzofuran	350	U	350	U	350	U	340	U	340	U	340	U
2,4-Dinitrotoluene	350	U	69	%	67	%	340	U	340	U	340	U
Diethylphthalate	350	U	350	U	350	U	340	U	340	U	340	U
4-Chlorophenyl-phenylether	350	U	350	U	350	U	340	U	340	U	340	U
Fluorene	350	U	350	U	350	U	340	U	340	U	340	U
4-Nitroaniline	870	U	870	U	870	U	860	U	860	U	860	U
4,6-Dinitro-2-methylphenol	870	U	870	U	870	U	860	U	860	U	860	U
N-Nitrosodiphenylamine (1)	350	U	350	U	350	U	340	U	340	U	340	U
4-Bromophenyl-phenylether	350	U	350	U	350	U	340	U	340	U	340	U
Hexachlorobenzene	350	U	350	U	350	U	340	U	340	U	340	U
Pentachlorophenol	870	U	81	%	79	%	860	U	860	U	860	U
Phenanthrene	350	U	350	U	350	U	340	U	340	U	340	U
Anthracene	350	U	350	U	350	U	340	U	340	U	340	U
Carbazole	350	U	350	U	350	U	340	U	340	U	340	U
Di-n-butylphthalate	350	U	350	U	350	U	340	U	340	U	340	U
Fluoranthene	350	U	350	U	350	U	340	U	340	U	340	U
Pyrene	350	U	81	%	78	%	340	U	340	U	340	U
Butylbenzylphthalate	350	U	350	U	350	U	340	U	340	U	340	U
3,3'-Dichlorobenzidine	350	U	350	U	350	U	340	U	340	U	340	U
Benzo(a)anthracene	350	U	350	U	350	U	340	U	340	U	340	U
Chrysene	350	U	350	U	350	U	340	U	340	U	340	U
bis(2-Ethylhexyl)phthalate	350	U	350	U	350	U	340	U	340	U	340	U
Di-n-octyl phthalate	350	U	350	U	350	U	340	U	340	U	340	U
Benzo(b)fluoranthene	350	U	350	U	350	U	340	U	340	U	340	U
Benzo(k)fluoranthene	350	U	350	U	350	U	340	U	340	U	340	U
Benzo(a)pyrene	350	U	350	U	350	U	340	U	340	U	340	U
Indeno(1,2,3-cd)pyrene	350	U	350	U	350	U	340	U	340	U	340	U
Dibenz(a,h)anthracene	350	U	350	U	350	U	340	U	340	U	340	U
Benzo(g,h,i)perylene	350	U	350	U	350	U	340	U	340	U	340	U

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

	Cust ID:	B0W535		B0W534		B0W533		SBLKBR		SBLKBR BS	
Sample Information	RFW#:	005		006		007		99LE1031-MB1		99LE1031-MB1	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL	
	D.F.:	1.00		1.00		1.00		1.00		1.00	
	Units:	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
Surrogate Recovery	Nitrobenzene-d5	68	%	69	%	64	%	58	%	65	%
	2-Fluorobiphenyl	71	%	68	%	73	%	65	%	65	%
	Terphenyl-d14	82	%	75	%	76	%	72	%	72	%
	Phenol-d5	68	%	67	%	55	%	51	%	66	%
	2-Fluorophenol	70	%	69	%	60	%	54	%	66	%
	2,4,6-Tribromophenol	62	%	54	%	54	%	35	%	59	%
Phenol		340	U	350	U	350	U	330	U	63	%
bis(2-Chloroethyl)ether		340	U	350	U	350	U	330	U	330	U
2-Chlorophenol		340	U	350	U	350	U	330	U	57	%
1,3-Dichlorobenzene		340	U	350	U	350	U	330	U	330	U
1,4-Dichlorobenzene		340	U	350	U	350	U	330	U	59	%
1,2-Dichlorobenzene		340	U	350	U	350	U	330	U	330	U
2-Methylphenol		340	U	350	U	350	U	330	U	330	U
2,2'-oxybis(1-Chloropropane)		340	U	350	U	350	U	330	U	330	U
4-Methylphenol		340	U	350	U	350	U	330	U	330	U
N-Nitroso-di-n-propylamine		340	U	350	U	350	U	330	U	67	%
Hexachloroethane		340	U	350	U	350	U	330	U	330	U
Nitrobenzene		340	U	350	U	350	U	330	U	330	U
Isophorone		340	U	350	U	350	U	330	U	330	U
2-Nitrophenol		340	U	350	U	350	U	330	U	330	U
2,4-Dimethylphenol		340	U	350	U	350	U	330	U	330	U
bis(2-Chloroethoxy)methane		340	U	350	U	350	U	330	U	330	U
2,4-Dichlorophenol		340	U	350	U	350	U	330	U	330	U
1,2,4-Trichlorobenzene		340	U	350	U	350	U	330	U	60	%
Naphthalene		340	U	350	U	350	U	330	U	330	U
4-Chloroaniline		340	U	350	U	350	U	330	U	330	U
Hexachlorobutadiene		340	U	350	U	350	U	330	U	330	U
4-Chloro-3-methylphenol		340	U	350	U	350	U	330	U	56	%
2-Methylnaphthalene		340	U	350	U	350	U	330	U	330	U
Hexachlorocyclopentadiene		340	U	350	U	350	U	330	U	330	U
2,4,6-Trichlorophenol		340	U	350	U	350	U	330	U	330	U
2,4,5-Trichlorophenol		860	U	880	U	880	U	840	U	840	U

*= Outside of EPA CLP QC limits.

Cust ID:	B0W535		B0W534		B0W533		SBLKBR		SBLKBR BS	
RFW#:	005		006		007		99LE1031-MB1		99LE1031-MB1	
2-Chloronaphthalene	340	U	350	U	350	U	330	U	330	U
2-Nitroaniline	860	U	880	U	880	U	840	U	840	U
Dimethylphthalate	340	U	350	U	350	U	330	U	330	U
Acenaphthylene	340	U	350	U	350	U	330	U	330	U
2,6-Dinitrotoluene	340	U	350	U	350	U	330	U	330	U
3-Nitroaniline	860	U	880	U	880	U	840	U	840	U
Acenaphthene	340	U	350	U	350	U	330	U	63	%
2,4-Dinitrophenol	860	U	880	U	880	U	840	U	840	U
4-Nitrophenol	860	U	880	U	880	U	840	U	45	%
Dibenzofuran	340	U	350	U	350	U	330	U	330	U
2,4-Dinitrotoluene	340	U	350	U	350	U	330	U	57	%
Diethylphthalate	340	U	350	U	350	U	330	U	330	U
4-Chlorophenyl-phenylether	340	U	350	U	350	U	330	U	330	U
Fluorene	340	U	350	U	350	U	330	U	330	U
4-Nitroaniline	860	U	880	U	880	U	840	U	840	U
4,6-Dinitro-2-methylphenol	860	U	880	U	880	U	840	U	840	U
N-Nitrosodiphenylamine (1)	340	U	350	U	350	U	330	U	330	U
4-Bromophenyl-phenylether	340	U	350	U	350	U	330	U	330	U
Hexachlorobenzene	340	U	350	U	350	U	330	U	330	U
Pentachlorophenol	860	U	880	U	880	U	840	U	62	%
Phenanthrene	340	U	350	U	350	U	330	U	330	U
Anthracene	340	U	350	U	350	U	330	U	330	U
Carbazole	340	U	350	U	350	U	330	U	330	U
Di-n-butylphthalate	340	U	350	U	350	U	330	U	330	U
Fluoranthene	340	U	350	U	350	U	330	U	330	U
Pyrene	340	U	350	U	350	U	330	U	68	%
Butylbenzylphthalate	340	U	350	U	350	U	330	U	330	U
3,3'-Dichlorobenzidine	340	U	350	U	350	U	330	U	330	U
Benzo(a)anthracene	340	U	350	U	350	U	330	U	330	U
Chrysene	340	U	350	U	350	U	330	U	330	U
bis(2-Ethylhexyl)phthalate	340	U	350	U	350	U	330	U	330	U
Di-n-octyl phthalate	340	U	350	U	350	U	330	U	330	U
Benzo(b)fluoranthene	340	U	350	U	350	U	330	U	330	U
Benzo(k)fluoranthene	340	U	350	U	350	U	330	U	330	U
Benzo(a)pyrene	340	U	350	U	350	U	330	U	330	U
Indeno(1,2,3-cd)pyrene	340	U	350	U	350	U	330	U	24	J
Dibenz(a,h)anthracene	340	U	350	U	350	U	330	U	26	J
Benzo(g,h,i)perylene	340	U	350	U	350	U	330	U	31	J

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

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

B0W541

Lab Name: Recra.LabNet Work Order: 10985001001

Client: TNU-HANFORD B99-078

Matrix: (soil/water) SOIL Lab Sample ID: 9908L778-001

Sample wt/vol: 30.0 (g/mL) G Lab File ID: E090308

Level: (low/med) LOW Date Received: 08/18/99

% Moisture: 4 decanted: (Y/N) __ Date Extracted: 08/25/99

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 09/03/99

Injection Volume: 2.0 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

B0W540

Lab Name: Recra.LabNet Work Order: 10985001001

Client: TNU-HANFORD B99-078

Matrix: (soil/water) SOIL Lab Sample ID: 9908L778-002

Sample wt/vol: 30.0 (g/mL) G Lab File ID: E090311

Level: (low/med) LOW Date Received: 08/18/99

% Moisture: 3 decanted: (Y/N) __ Date Extracted: 08/25/99

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 09/03/99

Injection Volume: 2.0 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.0

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

B0W537

Lab Name: Recra.LabNet Work Order: 10985001001

Client: TNU-HANFORD B99-078

Matrix: (soil/water) SOIL Lab Sample ID: 9908L778-003

Sample wt/vol: 30.0 (g/mL) G Lab File ID: E090312

Level: (low/med) LOW Date Received: 08/18/99

% Moisture: 3 decanted: (Y/N) __ Date Extracted: 08/25/99

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 09/03/99

Injection Volume: 2.0 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.0

Number TICs found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	ALDOL CONDENSATE	7.53	80	JAB

FORM 1 SV-TIC 3/90

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

B0W536

Lab Name: Recra.LabNet Work Order: 10985001001

Client: TNU-HANFORD B99-078

Matrix: (soil/water) SOIL Lab Sample ID: 9908L778-004

Sample wt/vol: 30.0 (g/mL) G Lab File ID: E090313

Level: (low/med) LOW Date Received: 08/18/99

% Moisture: 2 decanted: (Y/N) __ Date Extracted: 08/25/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 09/03/99

Injection Volume: 2.0(uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

B0W535

Lab Name: Recra.LabNet Work Order: 10985001001

Client: TNU-HANFORD B99-078

Matrix: (soil/water) SOIL Lab Sample ID: 9908L778-005

Sample wt/vol: 30.0 (g/mL) G Lab File ID: E090314

Level: (low/med) LOW Date Received: 08/18/99

% Moisture: 3 decanted: (Y/N) __ Date Extracted: 08/25/99

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 09/03/99

Injection Volume: 2.0 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

B0W534

Lab Name: Recra.LabNet Work Order: 10985001001

Client: TNU-HANFORD B99-078

Matrix: (soil/water) SOIL Lab Sample ID: 9908L778-006

Sample wt/vol: 30.0 (g/mL) G Lab File ID: E090315

Level: (low/med) LOW Date Received: 08/18/99

% Moisture: 5 decanted: (Y/N) __ Date Extracted: 08/25/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 09/03/99

Injection Volume: 2.0(uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.0

Number TICs found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	ALDOL CONDENSATE	7.55	200	JAB

FORM 1 SV-TIC 3/90

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

B0W533

Lab Name: Recra.LabNet Work Order: 10985001001

Client: TNU-HANFORD B99-078

Matrix: (soil/water) SOIL Lab Sample ID: 9908L778-007

Sample wt/vol: 30.0 (g/mL) G Lab File ID: D090914

Level: (low/med) LOW Date Received: 08/18/99

% Moisture: 6 decanted: (Y/N) Date Extracted: 08/25/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 09/09/99

Injection Volume: 2.0(uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.0

Number TICs found: 3 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	5.54	90	JB
2.	ALDOL CONDENSATE	6.18	100	JAB
3.	ALKANE	24.50	90	J

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SBLKBR

Lab Name: Recra.LabNet Work Order: 10985001001

Client: TNU-HANFORD B99-078

Matrix: (soil/water) SOIL Lab Sample ID: 99LE1031-MB1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: D090918

Level: (low/med) LOW Date Received: 08/25/99

% Moisture: _____ decanted: (Y/N)__ Date Extracted: 08/25/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 09/09/99

Injection Volume: 2.0(uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.0

Number TICs found: 3

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	ALDOL CONDENSATE	5.45	60	JA
2.	UNKNOWN	5.52	60	J
3.	ALDOL CONDENSATE	6.16	90	JA

Recra LabNet - Lionville Laboratory
BNA ANALYTICAL DATA PACKAGE FOR
TNU-HANFORD B99-078

DATE RECEIVED: 08/18/99 RFW LOT # :9908L778

CLIENT ID	RFW #	MTX	PREP #	COLLECTION	EXTR/PREP	ANALYSIS
B0W541	001	S	99LE1031	08/16/99	08/25/99	09/03/99
B0W541	001 MS	S	99LE1031	08/16/99	08/25/99	09/03/99
B0W541	001 MSD	S	99LE1031	08/16/99	08/25/99	09/03/99
B0W540	002	S	99LE1031	08/16/99	08/25/99	09/03/99
B0W537	003	S	99LE1031	08/16/99	08/25/99	09/03/99
B0W536	004	S	99LE1031	08/16/99	08/25/99	09/03/99
B0W535	005	S	99LE1031	08/16/99	08/25/99	09/03/99
B0W534	006	S	99LE1031	08/16/99	08/25/99	09/03/99
B0W533	007	S	99LE1031	08/16/99	08/25/99	09/09/99

LAB QC:

SBLKBR	MB1	S	99LE1031	N/A	08/25/99	09/09/99
SBLKBR	MB1 BS	S	99LE1031	N/A	08/25/99	09/03/99

1411

RECRA LabNet Use Only

99081778

Custody Transfer Record/Lab Work Request

Page 1 of 1

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS (8) Schnell

RECRA LabNet

Client TNU - HANFORD B99-078

Est. Final Proj. Sampling Date

Project # 10985-001-001-9999-00

Project Contact/Phone #

RECRA Project Manager OJ

QC SPEC Del STD TAT 30DAY

Date Rec'd 8/18/99 Date Due 9/17/99

Account # TNUHANFORD

Refrigerator #		1	6						4		6		6			
#/Type Container	Liquid															
	Solid	1g	1g						1g		1A6		1g			
Volume	Liquid															
	Solid	250	500						500		256		1tr			
Preservatives											—					
ANALYSES REQUESTED	ORGANIC: VOA	BNA	Pest/PCB	Herb				INORG: Metal	CN							

w/BNA

w/Metals

MATRIX CODES	Lab ID	Client ID/Description	Matrix QC Chosen (✓) MS	MSD	Matrix	Date Collected	Time Collected	8021	8025	8/18/99		8260	8250C	8082	Met (1)		IOH	ICP6	Anig (1)			
	001	BDW541			S	8/16/99	0940	✓	✓	✓		✓	✓		✓		✓	✓	✓			
	2	540					0931															
	3	537					0910															
	4	536					0903															
	5	535					0850															
	6	534					0834															
	007	533					0815															

Special Instructions:

Sag # B99-078

8/24/99 all samples ~~tests~~ added 8260C 8/24/99

COMPOSITE WASTE

DATE/REVISIONS:

Met (1) = As, Ba, Be, Cd, Cr, Cu, Pb, Ni,

2. Se, Ag, V, Zn, Hg

Anig (1) = 3. IN3N2, ICCL, ICFL, ICNO2, ICNO3,

4. ICPO4, ISFD, INH3N, ICNTO, ICSO4

5. Run Matrix QC

6. *423579528462 @ 4.0°C

RECRA LabNet Use Only

Samples were: 1) Shipped X or Hand Delivered ____

Airbill # *

2) Ambient or Chilled

3) Received in Good Condition Y or N

4) Labels Indicate Properly Preserved Y or N

5) Received Within Holding Times Y or N

COC Tape was: 1) Present on Outer Package Y or N

2) Unbroken on Outer Package Y or N

3) Present on Sample Y or N

4) Unbroken on Sample Y or N

COC Record Present Upon Sample Rec't Y or N

Cooler Temp. * °C

Discrepancies Between Samples Labels and COC Record? Y or N

NOTES:

Relinquished by	Received by	Date	Time
FedEx	Jenson	8/18/99	0930

Relinquished by	Received by	Date	Time
	ORIGINAL		
	REWRITTEN		