FRC

US EPA RECORDS CENTER REGION 5
462598

September 1997 Upper and Lower Aquifer Monitoring Well Sample Data Comparison American Chemical Services, Inc. Griffith, Indiana

EPA Work Assignment 029-ROBE-05J7
BVSPC Project No. 46517

February 6, 1998

Prepared By

Black & Veatch Special Projects Corp.
101 North Wacker Drive, Suite 1100
Chicago, Illinois 60606

Letter of Transmittal
Black & Veatch Special Projects Corp.

101 North Wacker Drive, Suite 1100, Chicago, Illinois, 60606, Phone (312) 346-3775, Fax (312) 346-4781

To: Ms. Sheri Bianchin
United States Environmental Protection Agency
77 West Jackson Boulevard (SRW-6J)
Chicago, Illinois 60604

Date: 06-Feb-98
From: Steve Mrkvicka
Project: American Chemical Services
Project No.: 46517
File: C.3

We are sending you: [XXX] Attached [ ] Under separate cover via _____

[ ] Preliminary Report
[ ] Final Report
[XXX] Other: Data Evaluation Report
Fourth Quarterly Sampling Event
September 1997

[ ] Specifications
[ ] Change Order
[ ] Addendum

These items are transmitted:

[ ] As requested
[ ] For your approval
[XXX] For your information
[ ] For review and comment

Remarks: Enclosed is the data evaluation report for the Fourth Quarterly Sampling Round that occurred in September 1997.

Please call me at 312/683-7849 if you have any questions.

American Chemical Services
Work Assignment 029-ROBE-05J7

Copy To: _____

Signed: _____ 06-Feb-98

t:\projects\acs\letters\tran-let.wk4

September 1997 Upper and Lower Aquifer Monitoring Well Sample Data Comparison American Chemical Services, Inc.

Introduction

Black & Veatch Special Projects Corp. (BVSPC), under the Alternative Remedial Contracting Strategy, has been tasked by the U.S. Environmental Protection Agency (EPA) to provide field oversight during the remedial design and expedited remedial action to EPA Region V in their endeavor to complete remediation of the American Chemical Services site. The Respondents are the American Chemical Services Technical Committee, and their contractor is Montgomery Watson (MW).

Purpose

The purpose of this document is to present BVSPC's evaluation and comparison of groundwater split sample analytical results with MW's data. BVSPC is tasked to provide this data evaluation report under it's work plan with the EPA.

Sampling Effort

During the weeks of September 22 and 29, 1997, BVSPC collected split samples from eight monitoring wells, four Town of Griffith Landfill monitoring wells, and six residential wells during the field oversight. Sampling was performed in accordance with the EPA-approved Mini-Quality Assurance Project Plan.

Laboratory

The EPA split samples were analyzed by Contract Laboratory Program (CLP) analytical services in accordance with the procedures outlined in the User's Guide to the CLP, EPA, February 1995. Rollins Environmental, Inc., Ann Arbor, Michigan, analyzed the organic samples. EPA Region V Central Regional Laboratory (CRL), Chicago, Illinois, analyzed the inorganic samples. MW's samples were analyzed by IEA for organic and inorganic analyses.

Data Validation

EPA Region V CRL validated the split sample data and BVSPC reviewed the validated data using the EPA CLP National Functional Guidelines for Organic Data

Review (EPA 540/R-94/012, February 1994) and EPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review (EPA 540/R-94/013, February 1994). The MW analytical data used for comparison was provided in the Technical Memorandum, September 1997 Groundwater Sampling Results Report, submitted on January 30, 1998. The MW report states that their data was validated using the same functional guidelines referenced above.

The EPA split sample analytical results were acceptable; however, due to minor analytical quality control problems, some of the compounds/analytes were qualified. Appendix A contains a copy of the chain-of-custody records, the data validation narratives, and the raw data sheets from EPA for split samples. Qualifiers are fully explained in the narratives. The raw data sheets and data validation narratives for the MW data have not been appended to this report; however, the data are contained in the September 1997 Groundwater Sampling Results Report.

Data Comparison

BVSPC compared the validated split sample data to MW's data. Summary comparison tables of the data were produced for each of the following analyses:

- Volatile Organic Compounds (Table 1).
- Semivolatile Organic Compounds (Table 2).
- Pesticides/PCBs (Table 3).
- Inorganic Analytes (Table 4).

Generally, both data sets were consistent.

Precision

Precision of the laboratory analyses was assessed by comparing the detected concentrations for each sample for organic and inorganic analysis. The relative percent difference (RPD) was calculated for each pair of results using the following equation:

$$RPD = \frac{Pc - Dc}{(Pc + Dc) / 2} \times 100$$

where:

P_c = Primary Concentration (assumed EPA's data)

D_c = Duplicate Concentration (assumed MW's data)

Sample variation comparison RPD values for compounds/analytes that exceeded the 30% RPD criteria are highlighted in bold and italics in each table. All other compounds/analytes were consistent, comparable, and within the 30% RPD range between EPA and MW's data.

Conclusions

The overall sample analytical results between EPA and MW's data were comparable; however, differences in concentrations for some compounds/analytes between EPA and MW's data were noted. These compounds/analytes should be viewed carefully in future sampling events.

The following issues were noted during the data evaluation:

- Trace levels of volatile and semivolatile organic compounds were detected in the two equipment blank split samples. Two compounds. acetone and methylene chloride, are common laboratory contaminants; however, the other residual contaminants, which were chloroform, benzene, and bis(2-ethylhexyl)phthalate, are not common laboratory contaminants.
- Trace levels of the volatile organic compound methylene chloride, which is a common laboratory contaminant, were detected in the split sample trip blanks.
- MW submitted analytical data sheets for samples that had been diluted at the laboratory because one or more contaminants were present in the sample at a high level. The dilution could mask the presence of low levels of other compounds.
- MW's laboratory did not analyze the monitoring well samples using the low concentration analytical method; therefore, the MW sample detection limits on the monitoring well samples are an order of magnitude greater than the split sample results, which used the low concentration analytical method.

Tables

	Table 1 September 1997 Upper and Lower Aquifer Monitoring Well Sample Data Comparison American Chemical Services, Inc.			
Compound/Analyte	Sample Location/Concentration (µg/l)			
	M3S (Upper Aquifer)		M4S (Upper Aquifer)	
	EAEA0 USEPA	ACS-GWM3S-03 PRP	EAZN8 USEPA	ACS-GWM4S-03 PRP
Volatile Organic Compounds				
Chloromethane	1 U	10 U	1 U	80 U
Bromomethane	1 U	10 U	1 U	80 U
Vinyl chloride	1 U	10 U	0.9 J	80 U
Chloroethane	1	10 U	1,200 D	1,000
Methylene chloride	2 U	10 U	7 B	80 U
Acetone	5 U	10 U	5 U	80 U
Carbon disulfide	1 U	10 U	1 U	80 U
1,1-Dichloroethene	1 U	10 U	1 U	80 U
1,1-Dichloroethane	1 U	10 U	1 U	80 U
cis-1,2-Dichloroethene	1 U	--	0.3 J	--
trans-1,2-Dichloroethene	1 U	--	0.8 J	--
1,2-Dichloroethene (total)	--	10 U		80 U
Chloroform	1 U	10 U	1 U	80 U
1,2-Dichloroethane	1 U	10 U	1 U	80 U
2-Butanone	5 U	10 U	5 U	80 U
Bromochloromethane	1 U	--	1 U	--
1,1,1-trichloroethane	1 U	10 U	1 U	80 U
Carbon tetrachloride	1 U	10 U	1 U	80 U
Bromodichloromethane	1 U	10 U	1 U	80 U
1,2-Dichloropropane	1 U	10 U	1 U	80 U
cis-1,3-dichloropropene	1 U	10 U	1 U	80 U
Trichloroethene	1 U	10 U	1 U	80 U
Dibromochloromethane	1 U	10 U	1 U	80 U
1,1,2-Trichloroethane	1 U	10 U	1 U	80 U
Benzene	1 U	10 U	82 D	73 J
trans-1,3-Dichloropropene	1 U	10 U	1 U	80 U
Bromoform	1 U	10 U	1 U	80 U
4-Methyl-2-pentanone	5 U	10 U	5 U	80 U
2-Hexanone	5 U	10 U	5 U	80 U
Tetrachloroethene	1 U	10 U	1 U	80 U
1,1,2,2-Tetrachloroethane	1 U	10 U	1 U	80 U
1,2-Dibromoethane	1 U	--	1 U	--
Toluene	1 U	10 U	0.6 J	80 U
Chlorobenzene	1 U	10 U	1 U	80 U
Ethylbenzene	1 U	10 U	1 U	80 U
Styrene	1 U	10 U	1 U	80 U
Xylene (total)	1 U	10 U	1 U	80 U
1,3-Dichlorobenzene	1 U	--	1 U	--
1,4-Dichlorobenzene	1 U	--	1 U	--
1,2-Dichlorobenzene	1 U	--	1 U	--
1,2-Dibromo-3-chloropropane	1 U	--	1 U	--
1,2,4-Trichlorobenzene	1 U	--	1 U	--
VOA TICs	0	0	7	1

Bold and italicized results have %RPD > 30%.

	Table 1 September 1997 Upper and Lower Aquifer Monitoring Well Sample Data Comparison American Chemical Services, Inc.			
Compound/Analyte	Sample Location/Concentration (µg/l)			
	M4D (Lower Aquifer)		M1S (Upper Aquifer)	
	EAZN6 USEPA	ACS-GWM4D-03 PRP	EAEA1 USEPA	ACS-GWM1S-03 PRP
Volatile Organic Compounds				
Chloromethane	1 U	10 U	1 U	10 U
Bromomethane	1 U	10 UJ	1 U	10 U
Vinyl chloride	1 U	10 U	1 U	10 U
Chloroethane	1 U	10 UJ	***1 U***	***2 J***
Methylene chloride	2 U	10 U	2 U	10 U
Acetone	5 U	10 U	***5 U***	***18***
Carbon disulfide	1 U	10 U	1 U	10 U
1,1-Dichloroethene	1 U	10 U	1 U	10 U
1,1-Dichloroethane	1 U	10 U	1 U	10 U
cis-1,2-Dichloroethene	1 U	--	1 U	--
trans-1,2-Dichloroethene	1 U	--	1 U	--
1,2-Dichloroethene (total)		10 U		10 U
Chloroform	1 U	10 U	1 U	10 U
1,2-Dichloroethane	1 U	10 U	1 U	10 U
2-Butanone	5 U	10 U	5 U	10 U
Bromochloromethane	1 U	--	1 U	--
1,1,1-trichloroethane	1 U	10 U	1 U	10 U
Carbon tetrachloride	1 U	10 U	1 U	10 U
Bromodichloromethane	1 U	10 U	1 U	10 U
1,2-Dichloropropane	1 U	10 U	1 U	10 U
cis-1,3-dichloropropene	1 U	10 U	1 U	10 U
Trichloroethene	1 U	10 U	1 U	10 U
Dibromochloromethane	1 U	10 U	1 U	10 U
1,1,2-Trichloroethane	1 U	10 U	1 U	10 U
Benzene	1 U	10 U	***1 U***	***2 J***
trans-1,3-Dichloropropene	1 U	10 U	1 U	10 U
Bromoform	1 U	10 U	1 U	10 U
4-Methyl-2-pentanone	5 U	10 U	5 U	10 U
2-Hexanone	5 U	10 U	5 U	10 U
Tetrachloroethene	1 U	10 U	1 U	10 U
1,1,2,2-Tetrachloroethane	1 U	10 U	1 U	10 U
1,2-Dibromoethane	1 U	--	1 U	--
Toluene	1 U	10 U	1 U	10 U
Chlorobenzene	1 U	10 U	1 U	10 U
Ethylbenzene	1 U	10 U	1 U	10 U
Styrene	1 U	10 U	1 U	10 U
Xylene (total)	1 U	10 U	1 U	10 U
1,3-Dichlorobenzene	1 U	--	1 U	--
1,4-Dichlorobenzene	1 U	--	1 U	--
1,2-Dichlorobenzene	1 U	--	1 U	--
1,2-Dibromo-3-chloropropane	1 U	--	1 U	--
1,2,4-Trichlorobenzene	1 U	--	1 U	--
VOA TICs	0	0	1	3

Bold and italicized results have %RPD > 30%.

	Table 1 September 1997 Upper and Lower Aquifer Monitoring Well Sample Data Comparison American Chemical Services, Inc.			
Compound/Analyte	Sample Location/Concentration (µg/l)			
	MW10C (Lower Aquifer)		MW38 (Upper Aquifer)	
	EWW03 USEPA	ACS-GWMW10C-03 PRP	EADX1 USEPA	ACS-GWMW38-03 PRP
Volatile Organic Compounds				
Chloromethane	1 U	50 U	1 U	10 U
Bromomethane	1 U	50 U	1 U	10 U
Vinyl chloride	6	50 U	1 U	10 U
Chloroethane	315 D	420	1 U	10 U
Methylene chloride	4 U	50 U	2 U	10 U
Acetone	5 U	50 U	5 U	10 U
Carbon disulfide	0.3 J	50 U	1 U	10 U
1,1-Dichloroethene	1 U	50 U	1 U	10 U
1,1-Dichloroethane	1 U	50 U	1 U	10 U
cis-1,2-Dichloroethene	1 U	--	3 U	--
trans-1,2-Dichloroethene	1 U	--	1 U	--
1,2-Dichloroethene (total)		50 U		10 U
Chloroform	1 U	50 U	1 U	10 U
1,2-Dichloroethane	1 U	50 U	1 U	10 U
2-Butanone	5 U	50 U	5 U	10 U
Bromochloromethane	1 U	--	1 U	--
1,1,1-trichloroethane	1 U	50 U	1 U	10 U
Carbon tetrachloride	1 U	50 U	1 U	10 U
Bromodichloromethane	1 U	50 U	1 U	10 U
1,2-Dichloropropane	1 U	50 U	1 U	10 U
cis-1,3-dichloropropene	1 U	50 U	1 U	10 U
Trichloroethene	1 U	50 U	0.3 J	10 U
Dibromochloromethane	1 U	50 U	1 U	10 U
1,1,2-Trichloroethane	1 U	50 U	1 U	10 U
Benzene	1 U	50 U	1 U	10 U
trans-1,3-Dichloropropene	1 U	50 U	1 U	10 U
Bromoform	1 U	50 U	1 U	10 U
4-Methyl-2-pentanone	5 J	50 U	5 U	10 U
2-Hexanone	5 U	50 U	5 U	10 U
Tetrachloroethene	1 U	50 U	0.7 J	10 U
1,1,2,2-Tetrachloroethane	1 U	50 U	1 U	10 U
1,2-Dibromoethane	1 U	--	1 U	--
Toluene	0.6 J	50 U	0.7 J	10 U
Chlorobenzene	1 U	50 U	1 U	10 U
Ethylbenzene	1 U	50 U	1 U	10 U
Styrene	1 U	50 U	1 U	10 U
Xylene (total)	1 U	50 U	1 U	10 U
1,3-Dichlorobenzene	1 U	--	1 U	--
1,4-Dichlorobenzene	1 U	--	1 U	--
1,2-Dichlorobenzene	1 U	--	1 U	--
1,2-Dibromo-3-chloropropane	1 U	--	1 U	--
1,2,4-Trichlorobenzene	1 U	--	1 U	--
VOA TICs	1	2	0	0

Bold and italicized results have %RPD > 30%.

Compound/Analyte	Table 1 September 1997 Upper and Lower Aquifer Monitoring Well Sample Data Comparison American Chemical Services, Inc. Sample Location/Concentration (µg/l)			
	MW15 (Upper Aquifer)		MW23 (Lower Aquifer)	
	EYB98 USEPA	ACS-GWMW15-03 PRP	EADX2 USEPA	ACS-GWMW23-03 PRP
Volatile Organic Compounds				
Chloromethane	1 U	10 U	1 U	10 U
Bromomethane	1 U	10 UJ	1 U	10 U
Vinyl chloride	1 U	10 U	1 U	10 U
Chloroethane	1	10 UJ	1 U	10 U
Methylene chloride	2 U	10 U	2 U	10 U
Acetone	5 U	10 U	5 U	10 U
Carbon disulfide	1 U	10 U	1 U	10 U
1,1-Dichloroethene	1 U	10 U	1 U	10 U
1,1-Dichloroethane	1 U	10 U	1 U	10 U
cis-1,2-Dichloroethene	1 U	--	1 U	--
trans-1,2-Dichloroethene	1 U	--	1 U	--
1,2-Dichloroethene (total)		10 U		10 U
Chloroform	1 U	10 U	1 U	10 U
1,2-Dichloroethane	1 U	10 U	1 U	10 U
2-Butanone	5 U	10 U	5 U	10 U
Bromochloromethane	1 U	--	1 U	--
1,1,1-trichloroethane	1 U	10 U	1 U	10 U
Carbon tetrachloride	1 U	10 U	1 U	10 U
Bromodichloromethane	1 U	10 U	1 U	10 U
1,2-Dichloropropane	1 U	10 U	1 U	10 U
cis-1,3-dichloropropene	1 U	10 U	1 U	10 U
Trichloroethene	1 U	10 U	1 U	10 U
Dibromochloromethane	1 U	10 U	1 U	10 U
1,1,2-Trichloroethane	1 U	10 U	1 U	10 U
Benzene	4	4 J	1 U	10 U
trans-1,3-Dichloropropene	1 U	10 U	1 U	10 U
Bromoform	1 U	10 U	1 U	10 U
4-Methyl-2-pentanone	5 U	10 U	5 U	10 U
2-Hexanone	5 U	10 U	5 U	10 U
Tetrachloroethene	1 U	10 U	1 U	10 U
1,1,2,2-Tetrachloroethane	1 U	10 U	1 U	10 U
1,2-Dibromoethane	1 U	--	1 U	--
Toluene	1 U	10 U	1 U	10 U
Chlorobenzene	1 U	10 U	1 U	10 U
Ethylbenzene	1 U	10 U	1 U	10 U
Styrene	1 U	10 U	1 U	10 U
Xylene (total)	1 U	10 U	1 U	10 U
1,3-Dichlorobenzene	1 U	--	1 U	--
1,4-Dichlorobenzene	1 U	--	1 U	--
1,2-Dichlorobenzene	1 U	--	1 U	--
1,2-Dibromo-3-chloropropane	1 U	--	1 U	--
1,2,4-Trichlorobenzene	1 U	--	1 U	--
VOA TICs	0	1	0	0

Bold and italicized results have %RPD > 30%.

	Table 1 September 1997 Upper and Lower Aquifer Monitoring Well Sample Data Comparison American Chemical Services, Inc.			
Compound/Analyte	Sample Location/Concentration (µg/l)			
	MW29 (Lower Aquifer)		MW12 (Upper Aquifer)	
	EADZ2 USEPA	ACS-GWMW29-03 PRP	EADP9 USEPA	ACS-GWMW12-03 PRP
Volatile Organic Compounds				
Chloromethane	1 U	10 U	1 U	10 U
Bromomethane	1 U	10 U	1 U	10 U
Vinyl chloride	1 U	10 U	1 U	10 U
Chloroethane	1	10 U	1 U	10 U
Methylene chloride	2 U	10 U	2 U	10 U
Acetone	5 U	10 U	5 U	10 U
Carbon disulfide	1 U	10 U	1 U	10 U
1,1-Dichloroethene	1 U	10 U	1 U	10 U
1,1-Dichloroethane	1 U	10 U	1 U	10 U
cis-1,2-Dichloroethene	1 U	--	1 U	--
trans-1,2-Dichloroethene	1 U	--	1 U	--
1,2-Dichloroethene (total)		10 U		10 U
Chloroform	1 U	10 U	1 U	10 U
1,2-Dichloroethane	1 U	10 U	1 U	10 U
2-Butanone	5 U	10 U	5 U	10 U
Bromochloromethane	1 U	--	1 U	--
1,1,1-trichloroethane	1 U	10 U	1 U	10 U
Carbon tetrachloride	1 U	10 U	1 U	10 U
Bromodichloromethane	1 U	10 U	1 U	10 U
1,2-Dichloropropane	1 U	10 U	1 U	10 U
cis-1,3-dichloropropene	1 U	10 U	1 U	10 U
Trichloroethene	1 U	10 U	1 U	10 U
Dibromochloromethane	1 U	10 U	1 U	10 U
1,1,2-Trichloroethane	1 U	10 U	1 U	10 U
Benzene	1.0 U	10 U	1 U	10 U
trans-1,3-Dichloropropene	1 U	10 U	1 U	10 U
Bromoform	1 U	10 U	1 U	10 U
4-Methyl-2-pentanone	5 U	10 U	5 U	10 U
2-Hexanone	5 U	10 U	5 U	10 U
Tetrachloroethene	1 U	10 U	1 U	10 U
1,1,2,2-Tetrachloroethane	1 U	10 U	1 U	10 U
1,2-Dibromoethane	1 U	--	1 U	--
Toluene	0.5 J	10 U	0.2 J	10 U
Chlorobenzene	1 U	10 U	6	5 J
Ethylbenzene	1 U	10 U	1 U	10 U
Styrene	1 U	10 U	1 U	10 U
Xylene (total)	1 U	10 U	1 U	10 U
1,3-Dichlorobenzene	1 U	--	1 U	--
1,4-Dichlorobenzene	1 U	--	1 U	--
1,2-Dichlorobenzene	1 U	--	1 U	--
1,2-Dibromo-3-chloropropane	1 U	--	1 U	--
1,2,4-Trichlorobenzene	1 U	--	1 U	--
VOA TICs	0	1	1	1

Bold and italicized results have %RPD > 30%.

Compound/Analyte	Table 1 September 1997 Upper and Lower Aquifer Monitoring Well Sample Data Comparison American Chemical Services, Inc.			
	Sample Location/Concentration (µg/l)			
	MW51 (Lower Aquifer)		MW8 (Lower Aquifer)	
	EADQ0 USEPA	ACS-GWMW51-03 PRP	EWW02 USEPA	ACS-GWMW8-03 PRP
Volatile Organic Compounds				
Chloromethane	1 U	100 U	1 U	10 U
Bromomethane	1 U	100 U	1 U	10 U
Vinyl chloride	1 U	100 U	1 U	10 U
Chloroethane	1 U	100 U	1 U	10 U
Methylene chloride	2 U	100 U	2 U	10 UJ
Acetone	5 U	100 U	5 U	10 U
Carbon disulfide	1 U	100 U	1 U	10 UJ
1,1-Dichloroethene	1 U	100 U	1 U	10 U
1,1-Dichloroethane	1 U	100 U	1 U	10 U
cis-1,2-Dichloroethene	1 U	--	1 U	--
trans-1,2-Dichloroethene	1 U	--	1 U	--
1,2-Dichloroethene (total)		100 U		10 U
Chloroform	1 U	100 U	1 U	10 U
1,2-Dichloroethane	--	100 U	1 U	10 U
2-Butanone	5 U	100 U	5 U	10 U
Bromochloromethane	1 U	--	1 U	--
1,1,1-trichloroethane	1 U	100 U	1 U	10 UJ
Carbon tetrachloride	1 U	100 U	1 U	10 UJ
Bromodichloromethane	1 U	100 U	1 U	10 U
1,2-Dichloropropane	1 U	100 U	1 U	10 U
cis-1,3-dichloropropene	1 U	100 U	1 U	10 U
Trichloroethene	1 U	100 U	1 U	10 U
Dibromochloromethane	1 U	100 U	1 U	10 U
1,1,2-Trichloroethane	1 U	100 U	1 U	10 U
Benzene	1 U	100 U	1 U	10 U
trans-1,3-Dichloropropene	1 U	100 U	1 U	10 U
Bromoform	1 U	100 U	1 U	10 U
4-Methyl-2-pentanone	7	100 U	5 U	10 U
2-Hexanone	5 U	100 U	5 U	10 UJ
Tetrachloroethene	1 U	100 U	0.2 J	10 U
1,1,2,2-Tetrachloroethane	1 U	100 U	1 U	10 U
1,2-Dibromoethane	1 U	--	1 U	--
Toluene	0.5 J	100 U	0.9 J	10 U
Chlorobenzene	1 U	100 U	1 U	10 U
Ethylbenzene	1 U	100 U	1 U	10 U
Styrene	1 U	100 U	1 U	10 U
Xylene (total)	1 U	100 U	1 U	10 U
1,3-Dichlorobenzene	1 U	--	1 U	--
1,4-Dichlorobenzene	1 U	--	1 U	--
1,2-Dichlorobenzene	1 U	--	1 U	--
1,2-Dibromo-3-chloropropane	1 U	--	1 U	--
1,2,4-Trichlorobenzene	1 U	--	1 U	--
VOA TICs	6	2	0	0

Bold and italicized results have %RPD > 30%.

	Table 1 September 1997 Upper and Lower Aquifer Monitoring Well Sample Data Comparison American Chemical Services, Inc.			
Compound/Analyte	Sample Location/Concentration (µg/l)			
	Babbitt, 1014 South Arbogast		Maze, 1130 Reder Road	
	EADQ2 USEPA	ACS-PWK-02 PRP	EADQ3 USEPA	ACS-PWRE-02 PRP
Volatile Organic Compounds				
Chloromethane	1 U	1 UR	1 U	1 UR
Bromomethane	1 U	1 U	1 U	1 U
Vinyl chloride	1 U	1 U	1 U	1 U
Chloroethane	1 U	1 U	1 U	1 U
Methylene chloride	2 U	2 U	2 U	0.2 J
Acetone	5 U	5 UR	5 U	5 UR
Carbon disulfide	1 U	1 U	1 U	1 U
1,1-Dichloroethene	1 U	1 U	1 U	1 U
1,1-Dichloroethane	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	1 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	1 U	1 U	1 U	1 U
1,2-Dichloroethene (total)	--	--	--	--
Chloroform	1 U	1 U	1 U	1 U
1,2-Dichloroethane	1 U	1 U	1 U	1 U
2-Butanone	5 U	5 UR	5 U	5 UR
Bromochloromethane	1 U	1 U	1 U	1 U
1,1,1-trichloroethane	1 U	1 U	1 U	1 U
Carbon tetrachloride	1 U	1 U	1 U	1 U
Bromodichloromethane	1 U	1 U	1 U	1 U
1,2-Dichloropropane	1 U	1 U	1 U	1 U
cis-1,3-dichloropropene	1 U	1 U	1 U	1 U
Trichloroethene	1 U	0.2 J	1 U	1 U
Dibromochloromethane	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	1 U	1 U	1 U	1 U
Benzene	1 U	1 U	1 U	1 U
trans-1,3-Dichloropropene	1 U	1 U	1 U	1 U
Bromoform	1 U	1 U	1 U	1 U
4-Methyl-2-pentanone	5 U	5 U	5 U	5 U
2-Hexanone	5 U	5 U	5 U	5 U
Tetrachloroethene	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	1 U	1 U	1 U	1 U
1,2-Dibromoethane	1 U	1 U	1 U	1 U
Toluene	1 U	1 U	1 U	1 U
Chlorobenzene	1 U	1 U	1 U	1 U
Ethylbenzene	1 U	1 U	1 U	1 U
Styrene	1 U	1 U	1 U	1 U
Xylene (total)	1 U	5 U	1 U	5 U
1,3-Dichlorobenzene	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	1 U	1 U	1 U	1 U
1,2-Dibromo-3-chloropropane	1 U	1 U	1 U	1 U
1,2,4-Trichlorobenzene	1 U	--	1 U	--
VOA TICs	0	0	0	0

Bold and italicized results have %RPD > 30%.

	Table 1 September 1997 Upper and Lower Aquifer Monitoring Well Sample Data Comparison American Chemical Services, Inc.			
Compound/Analyte	Sample Location/Concentration (µg/l)			
	Floyd, 1033 Reder Road		Augsten, 1130 Reder Road	
	EADQ4 USEPA	ACS-PWD-02 PRP	EADQ5 USEPA	ACS-PWRC-02 PRP
Volatile Organic Compounds				
Chloromethane	1 U	1 UR	1 U	1 UR
Bromomethane	1 U	1 U	1 U	1 U
Vinyl chloride	1 U	1 U	1 U	1 U
Chloroethane	1 U	1 U	1 U	1 U
Methylene chloride	2 U	2 U	2 U	0.2 J
Acetone	5 U	5 UR	5 U	5 UR
Carbon disulfide	1 U	1 U	1 U	1 U
1,1-Dichloroethene	1 U	1 U	1 U	1 U
1,1-Dichloroethane	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	1 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	1 U	1 U	1 U	1 U
1,2-Dichloroethene (total)	--	--	--	--
Chloroform	1 U	1 U	1 U	1 U
1,2-Dichloroethane	1 U	1 U	1 U	1 U
2-Butanone	5 U	5 UR	5 U	5 UR
Bromochloromethane	1 U	1 U	1 U	1 U
1,1,1-trichloroethane	1 U	1 U	1 U	1 U
Carbon tetrachloride	1 U	1 U	1 U	1 U
Bromodichloromethane	1 U	1 U	1 U	1 U
1,2-Dichloropropane	1 U	1 U	1 U	1 U
cis-1,3-dichloropropene	1 U	1 U	1 U	1 U
Trichloroethene	1 U	1 U	1 U	1 U
Dibromochloromethane	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	1 U	1 U	1 U	1 U
Benzene	1 U	1 U	1 U	1 U
trans-1,3-Dichloropropene	1 U	1 U	1 U	1 U
Bromoform	1 U	1 U	1 U	1 U
4-Methyl-2-pentanone	5 U	5 U	5 U	5 U
2-Hexanone	5 U	5 U	5 U	5 U
Tetrachloroethene	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	1 U	1 U	1 U	1 U
1,2-Dibromoethane	1 U	1 U	1 U	1 U
Toluene	1 U	1 U	1 U	1 U
Chlorobenzene	1 U	1 U	1 U	1 U
Ethylbenzene	1 U	1 U	1 U	1 U
Styrene	1 U	1 U	1 U	1 U
Xylene (total)	1 U	5 U	1 U	5 U
1,3-Dichlorobenzene	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	1 U	1 U	1 U	1 U
1,2-Dibromo-3-chloropropane	1 U	1 U	1 U	1 U
1,2,4-Trichlorobenzene	1 U	--	1 U	--
VOA TICs	0	0	0	0

Bold and italicized results have %RPD > 30%.

	Table 1 September 1997 Upper and Lower Aquifer Monitoring Well Sample Data Comparison American Chemical Services, Inc.			
Compound/Analyte	Sample Location/Concentration (µg/l)			
	Littrell, 1002 Reder Road		Rybacki, 430 East Avenue H	
	EADQ6 USEPA	ACS-PWY-02 PRP	EADQ7 USEPA	ACS-PWZ-02 PRP
Volatile Organic Compounds				
Chloromethane	1 U		1 U	1 UR
Bromomethane	1 U		1 U	1 U
Vinyl chloride	1 U		1 U	1 U
Chloroethane	1 U		1 U	1 U
Methylene chloride	2 U		2 U	2 U
Acetone	5 U		5 U	5 UR
Carbon disulfide	1 U		1 U	1 U
1,1-Dichloroethene	1 U		1 U	1 U
1,1-Dichloroethane	1 U		1 U	1 U
cis-1,2-Dichloroethene	1 U		1 U	1 U
trans-1,2-Dichloroethene	1 U		1 U	1 U
1,2-Dichloroethene (total)	--		--	--
Chloroform	1 U		1 U	1 U
1,2-Dichloroethane	1 U		1 U	1 U
2-Butanone	5 U		5 U	5 UR
Bromochloromethane	1 U		1 U	1 U
1,1,1-trichloroethane	1 U		1 U	1 U
Carbon tetrachloride	1 U		1 U	1 U
Bromodichloromethane	1 U		1 U	1 U
1,2-Dichloropropane	1 U		1 U	1 U
cis-1,3-dichloropropene	1 U		1 U	1 U
Trichloroethene	1 U		1 U	1 U
Dibromochloromethane	1 U		1 U	1 U
1,1,2-Trichloroethane	1 U		1 U	1 U
Benzene	1 U		1 U	1 U
trans-1,3-Dichloropropene	1 U		1 U	1 U
Bromoform	1 U		1 U	1 U
4-Methyl-2-pentanone	5 U		5 U	5 U
2-Hexanone	5 U		5 U	5 U
Tetrachloroethene	1 U		1 U	1 U
1,1,2,2-Tetrachloroethane	1 U		1 U	1 U
1,2-Dibromoethane	1 U		1 U	1 U
Toluene	1 U		1 U	1 U
Chlorobenzene	1 U		1 U	1 U
Ethylbenzene	1 U		1 U	1 U
Styrene	1 U		1 U	1 U
Xylene (total)	1 U		1 U	5 U
1,3-Dichlorobenzene	1 U		1 U	1 U
1,4-Dichlorobenzene	1 U		1 U	1 U
1,2-Dichlorobenzene	1 U		1 U	1 U
1,2-Dibromo-3-chloropropane	1 U		1 U	1 U
1,2,4-Trichlorobenzene	1 U		1 U	--
VOA TICs	0		0	0

Bold and italicized results have %RPD > 30%.

Notes for Volatile Organic Compounds, Table 1

1. Sample EAZN8 from well M4S contained chloroethane and benzene at concentrations that exceeded the instrument's calibration range. The results of the sample dilution (EAZN8DL) for these compounds were inserted into the table.

2. Sample EWW03 from well MW10C contained chloroethane at a concentration that exceeded the instrument's calibration range. The result of the sample dilution (EWW03DL) for this compound was inserted into the table.

3. The analytical results from the equipment blank samples EWW01 (EB01) and EADQ1 (EB02) contained low levels of chloroform, methylene chloride, acetone, and benzene; therefore, the results from the corresponding investigative samples for these compounds were qualified in accordance with the USEPA CLP National Functional Guidelines for Organic Data Review, February 1994.

4. Montgomery Watson did not report the analytical results for sample ACS-PWY-02.

	Table 2a September 1997 Upper and Lower Aquifer Monitoring Well Sample Data Comparison American Chemical Services, Inc.			
Compound/Analyte	Sample Location/Concentration (µg/l)			
	M3S (Upper Aquifer)		M4S (Upper Aquifer)	
	EAEA0 USEPA	ACS-GWM3S-03 PRP	EAZN8 USEPA	ACS-GWM4S-03 PRP
Semivolatile Organic Compounds				
Phenol	***5 U***	***8 J***	***5 U***	***25***
bis(2-Chloroethyl)ether	2 J	2 J	***108 D***	***10 U***
2-Chlorophenol	5 U	10 U	5 U	10 U
1,3-Dichlorobenzene	--	10 U	--	10 U
1,4-Dichlorobenzene	--	10 U	--	10 U
1,2-Dichlorobenzene	--	10 U	--	10 U
2-Methylphenol	5 U	10 U	5 U	10 U
2,2'-oxybis-(1-Chloropropane)	8	8 J	5 U	10 U
4-Methylphenol	5 U	10 U	5 U	10 U
N-Nitroso-di-n-propylamine	5 U	10 UJ	5 U	10 U
Hexachloroethane	5 U	10 U	5 U	10 U
Nitrobenzene	5 U	10 UJ	5 U	10 UJ
Isophorone	5 U	10 U	5 U	10 U
2-Nitrophenol	5 U	10 U	5 U	10 U
2,4-Dimethylphenol	5 U	10 U	5 U	10 U
bis(2-Chloroethoxy)methane	5 U	10 U	5 U	10 U
2,4-Dichlorophenol	5 U	10 U	5 U	10 U
1,2,4-Trichlorobenzene	--	10 U	--	10 U
Naphthalene	5 U	10 U	5 U	10 U
4-Chloroaniline	5 U	10 U	5 U	10 U
Hexachlorobutadiene	5 U	10 UJ	5 U	10 UJ
4-Chloro-3-methylphenol	5 U	10 U	5 U	10 U
2-Methylnaphthalene	5 U	10 U	5 U	10 U
Hexachlorocyclopentadiene	5 U	10 U	5 U	10 U
2,4,6-Trichlorophenol	5 U	10 U	5 U	10 U
2,4,5-Trichlorophenol	20 U	25 U	20 U	25 U
2-Chloronaphthalene	5 U	10 U	5 U	10 U
2-Nitroaniline	20 U	25 UJ	20 U	25 UJ
Dimethylphthalate	5 U	10 U	5 U	10 U
Acenaphthylene	5 U	10 U	5 U	10 U
2,6-Dinitrotoluene	5 U	10 U	5 U	10 U
3-Nitroaniline	20 U	25 U	20 U	25 U
Acenaphthene	5 U	10 U	5 U	10 U
2,4-Dinitrophenol	20 U	25 U	20 U	25 U
4-Nitrophenol	20 U	25 UJ	20 U	25 UJ
Dibenzofuran	5 U	10 U	5 U	10 U
2,4-Dinitrotoluene	5 U	10 U	5 U	10 U
Diethylphthalate	5 U	10 U	5 U	10 U
4-Chlorophenyl-phenylether	5 U	10 U	5 U	10 U

Bold and italicized results have %RPD > 30%.

	Table 2a September 1997 Upper and Lower Aquifer Monitoring Well Sample Data Comparison American Chemical Services, Inc.			
Compound/Analyte	Sample Location/Concentration (µg/l)			
	M4D (Lower Aquifer)		M1S (Upper Aquifer)	
	EAZN6 USEPA	ACS-GWM4D-0 PRP	EAEA1 USEPA	ACS-GWM1S-03 PRP
Semivolatile Organic Compounds				
Phenol	14	14	***48***	***34***
bis(2-Chloroethyl)ether	5 U	10 U	***5 U***	***60***
2-Chlorophenol	5 U	10 U	5 U	10 U
1,3-Dichlorobenzene	--	10 U	--	10 U
1,4-Dichlorobenzene	--	10 U	--	10 U
1,2-Dichlorobenzene	--	10 U	--	10 U
2-Methylphenol	5 U	10 U	5 U	10 U
2,2'-oxybis-(1-Chloropropane)	5 U	10 U	5 U	10 U
4-Methylphenol	5 U	10 U	5 U	10 U
N-Nitroso-di-n-propylamine	5 U	10 UJ	5 U	10 UJ
Hexachloroethane	5 U	10 U	5 U	10 U
Nitrobenzene	5 U	10 UJ	5 U	10 UJ
Isophorone	5 U	10 U	5 U	10 U
2-Nitrophenol	5 U	10 U	5 U	10 U
2,4-Dimethylphenol	5 U	10 U	5 U	10 U
bis(2-Chloroethoxy)methane	5 U	10 U	5 U	10 U
2,4-Dichlorophenol	5 U	10 U	5 U	10 U
1,2,4-Trichlorobenzene	--	10 U	--	10 U
Naphthalene	5 U	10 U	5 U	10 U
4-Chloroaniline	5 U	10 U	5 U	10 U
Hexachlorobutadiene	5 U	10 UJ	5 U	10 UJ
4-Chloro-3-methylphenol	5 U	10 UJ	5 U	10 U
2-Methylnaphthalene	5 U	10 U	5 U	10 U
Hexachlorocyclopentadiene	5 U	10 U	5 U	10 U
2,4,6-Trichlorophenol	5 U	10 U	5 U	10 U
2,4,5-Trichlorophenol	20 U	25 U	20 U	25 U
2-Chloronaphthalene	5 U	10 U	5 U	10 U
2-Nitroaniline	20 U	25 UJ	20 U	25 UJ
Dimethylphthalate	5 U	10 U	5 U	10 U
Acenaphthylene	5 U	10 U	5 U	10 U
2,6-Dinitrotoluene	5 U	10 U	5 U	10 U
3-Nitroaniline	20 U	25 U	20 U	25 U
Acenaphthene	5 U	10 U	5 U	10 U
2,4-Dinitrophenol	20 U	25 U	20 U	25 U
4-Nitrophenol	20 U	25 UJ	20 U	25 UJ
Dibenzofuran	5 U	10 U	5 U	10 U
2,4-Dinitrotoluene	5 U	10 U	5 U	10 U
Diethylphthalate	5 U	10 U	5 U	10 U
4-Chlorophenyl-phenylether	5 U	10 U	5 U	10 U

Bold and italicized results have %RPD > 30%.

	Table 2a September 1997 Upper and Lower Aquifer Monitoring Well Sample Data Comparison American Chemical Services, Inc.			
Compound/Analyte	Sample Location/Concentration (µg/l)			
	MW10C (Lower Aquifer)		MW38 (Upper Aquifer)	
	EWW03 USEPA	ACS-GWMW10C-03 PRP	EADX1 USEPA	ACS-GWMW38-03 PRP
Semivolatile Organic Compounds				
Phenol	20	20	***14***	***10 UJ***
bis(2-Chloroethyl)ether	5 U	10 U	5 U	10 U
2-Chlorophenol	5 U	10 U	5 U	10 U
1,3-Dichlorobenzene	--	10 U	--	10 U
1,4-Dichlorobenzene	--	10 U	--	10 U
1,2-Dichlorobenzene	--	10 U	--	10 U
2-Methylphenol	5 U	10 U	5 U	10 U
2,2'-oxybis-(1-Chloropropane)	5 U	10 U	5 U	10 UJ
4-Methylphenol	5 U	10 U	5 U	10 U
N-Nitroso-di-n-propylamine	5 U	10 U	5 U	10 UJ
Hexachloroethane	5 U	10 U	5 U	10 UJ
Nitrobenzene	5 U	10 U	5 U	10 U
Isophorone	5 U	1 J	5 U	10 U
2-Nitrophenol	5 U	10 U	5 U	10 U
2,4-Dimethylphenol	5 U	10 U	5 U	10 U
bis(2-Chloroethoxy)methane	5 U	10 U	5 U	10 U
2,4-Dichlorophenol	5 U	10 U	5 U	10 U
1,2,4-Trichlorobenzene	--	10 U	--	10 U
Naphthalene	5 U	10 U	5 U	10 U
4-Chloroaniline	5 U	10 U	5 U	10 U
Hexachlorobutadiene	5 U	10 UJ	5 U	10 UJ
4-Chloro-3-methylphenol	5 U	10 UJ	5 U	10 U
2-Methylnaphthalene	5 U	10 U	5 U	10 U
Hexachlorocyclopentadiene	5 U	10 U	5 U	10 U
2,4,6-Trichlorophenol	5 U	10 U	5 U	10 U
2,4,5-Trichlorophenol	20 U	25 U	20 U	25 U
2-Chloronaphthalene	5 U	10 U	5 U	10 U
2-Nitroaniline	20 U	25 UJ	20 U	25 UJ
Dimethylphthalate	5 U	10 U	5 U	10 U
Acenaphthylene	5 U	10 U	5 U	10 U
2,6-Dinitrotoluene	5 U	10 U	5 U	10 U
3-Nitroaniline	20 U	25 U	20 U	25 U
Acenaphthene	5 U	10 U	5 U	10 U
2,4-Dinitrophenol	20 U	25 U	20 U	25 U
4-Nitrophenol	20 U	25 UJ	20 U	25 UJ
Dibenzofuran	5 U	10 U	5 U	10 U
2,4-Dinitrotoluene	5 U	10 U	5 U	10 U
Diethylphthalate	5 U	10 U	5 U	10 U
4-Chlorophenyl-phenylether	5 U	10 U	5 U	10 U

Bold and italicized results have %RPD > 30%.

Compound/Analyte	Table 2a September 1997 Upper and Lower Aquifer Monitoring Well Sample Data Comparison American Chemical Services, Inc.			
	Sample Location/Concentration (µg/l)			
	MW15 (Upper Aquifer)		MW23 (Lower Aquifer)	
	EYB98 USEPA	ACS-GWMW15-03 PRP	EADX2 USEPA	ACS-GWMW23-03 PRP
Semivolatile Organic Compounds				
Phenol	***39***	***26***	5 U	10 U
bis(2-Chloroethyl)ether	5 U	10 U	5 U	10 U
2-Chlorophenol	5 U	10 U	5 U	10 U
1,3-Dichlorobenzene	--	10 U	--	10 U
1,4-Dichlorobenzene	--	10 U	--	10 U
1,2-Dichlorobenzene	--	10 U	--	10 U
2-Methylphenol	5 U	10 U	5 U	10 U
2,2'-oxybis-(1-Chloropropane)	5 U	10 U	5 U	10 UJ
4-Methylphenol	5 U	10 U	5 U	10 U
N-Nitroso-di-n-propylamine	5 U	10 UJ	5 U	10 UJ
Hexachloroethane	5 U	10 U	5 U	10 UJ
Nitrobenzene	5 U	10 UJ	5 U	10 U
Isophorone	5 U	10 U	5 U	10 U
2-Nitrophenol	5 U	10 U	5 U	10 U
2,4-Dimethylphenol	5 U	10 U	5 U	10 U
bis(2-Chloroethoxy)methane	5 U	10 U	5 U	10 U
2,4-Dichlorophenol	5 U	10 U	5 U	10 U
1,2,4-Trichlorobenzene	--	10 U	--	10 U
Naphthalene	5 U	10 U	5 U	10 U
4-Chloroaniline	5 U	10 U	5 U	10 U
Hexachlorobutadiene	5 U	10 UJ	5 U	10 UJ
4-Chloro-3-methylphenol	5 U	10 U	5 U	10 U
2-Methylnaphthalene	5 U	10 U	5 U	10 U
Hexachlorocyclopentadiene	5 U	10 U	5 U	10 U
2,4,6-Trichlorophenol	5 U	10 U	5 U	10 U
2,4,5-Trichlorophenol	20 U	25 U	20 U	25 U
2-Chloronaphthalene	5 U	10 U	5 U	10 U
2-Nitroaniline	20 U	25 UJ	20 U	25 UJ
Dimethylphthalate	5 U	10 U	5 U	10 U
Acenaphthylene	5 U	10 U	5 U	10 U
2,6-Dinitrotoluene	5 U	10 U	5 U	10 U
3-Nitroaniline	20 U	25 U	20 U	25 U
Acenaphthene	5 U	10 U	5 U	10 U
2,4-Dinitrophenol	20 U	25 U	20 U	25 U
4-Nitrophenol	20 U	25 UJ	20 U	25 UJ
Dibenzofuran	5 U	10 U	5 U	10 U
2,4-Dinitrotoluene	5 U	10 U	5 U	10 U
Diethylphthalate	5 U	10 U	5 U	10 U
4-Chlorophenyl-phenylether	5 U	10 U	5 U	10 U

Bold and italicized results have %RPD > 30%.

	Table 2a September 1997 Upper and Lower Aquifer Monitoring Well Sample Data Comparison American Chemical Services, Inc.			
Compound/Analyte	Sample Location/Concentration (µg/l)			
	MW29 (Lower Aquifer)		MW12 (Upper Aquifer)	
	EADZ2 USEPA	ACS-GWMW29-03 PRP	EADP9 USEPA	ACS-GWMW12-03 PRP
Semivolatile Organic Compounds				
Phenol	***16***	***43***	23	24
bis(2-Chloroethyl)ether	5 U	10 U	5 U	20 U
2-Chlorophenol	5 U	10 U	5 U	20 U
1,3-Dichlorobenzene	--	10 U	--	20 U
1,4-Dichlorobenzene	--	10 U	--	20 U
1,2-Dichlorobenzene	--	10 U	--	20 U
2-Methylphenol	5 U	10 U	5 U	20 U
2,2'-oxybis-(1-Chloropropane)	5 U	10 U	***120 D***	***87***
4-Methylphenol	5 U	10 U	5 U	20 U
N-Nitroso-di-n-propylamine	5 U	10 U	5 U	20 U
Hexachloroethane	5 U	10 U	5 U	20 U
Nitrobenzene	5 U	10 U	5 U	20 U
Isophorone	5 U	10 U	5 U	20 U
2-Nitrophenol	5 U	10 U	5 U	20 U
2,4-Dimethylphenol	5 U	10 U	5 U	20 U
bis(2-Chloroethoxy)methane	5 U	10 U	5 U	20 U
2,4-Dichlorophenol	5 U	10 U	5 U	20 U
1,2,4-Trichlorobenzene	--	10 U	--	20 U
Naphthalene	5 U	10 U	5 U	20 U
4-Chloroaniline	5 U	10 U	5 U	20 U
Hexachlorobutadiene	5 U	10 U	5 U	20 U
4-Chloro-3-methylphenol	5 U	10 U	5 U	20 U
2-Methylnaphthalene	5 U	10 U	5 U	20 U
Hexachlorocyclopentadiene	5 U	10 U	5 U	20 U
2,4,6-Trichlorophenol	5 U	10 U	5 U	20 U
2,4,5-Trichlorophenol	20 U	25 U	20 U	50 U
2-Chloronaphthalene	5 U	10 U	5 U	20 U
2-Nitroaniline	20 U	25 U	20 U	50 U
Dimethylphthalate	5 U	10 U	5 U	3 J
Acenaphthylene	5 U	10 U	5 U	20 U
2,6-Dinitrotoluene	5 U	10 U	5 U	20 U
3-Nitroaniline	20 U	25 U	20 U	50 U
Acenaphthene	5 U	10 U	5 U	20 U
2,4-Dinitrophenol	20 U	25 U	20 U	50 U
4-Nitrophenol	20 U	25 U	20 U	50 U
Dibenzofuran	5 U	10 U	5 U	20 U
2,4-Dinitrotoluene	5 U	10 U	5 U	20 U
Diethylphthalate	5 U	10 U	5 U	20 U
4-Chlorophenyl-phenylether	5 U	10 U	5 U	20 U

Bold and italicized results have %RPD > 30%.

	Table 2a September 1997 Upper and Lower Aquifer Monitoring Well Sample Data Comparison American Chemical Services, Inc.			
Compound/Analyte	Sample Location/Concentration (µg/l)			
	MW51 (Lower Aquifer)		MW8 (Lower Aquifer)	
	EADQ0 USEPA	ACS-GWMW51-03 PRP	EWW02 USEPA	ACS-GWMW8-03 PRP
Semivolatile Organic Compounds				
Phenol	***27***	***18***	***9***	***140***
bis(2-Chloroethyl)ether	5 U	10 U	5 U	4 J
2-Chlorophenol	5 U	10 U	5 U	20 U
1,3-Dichlorobenzene	--	10 U	--	20 U
1,4-Dichlorobenzene	--	10 U	--	20 U
1,2-Dichlorobenzene	--	10 U	--	20 U
2-Methylphenol	5 U	10 U	5 U	20 U
2,2'-oxybis-(1-Chloropropane)	5 U	10 U	5 U	20 U
4-Methylphenol	5 U	10 U	5 U	20 U
N-Nitroso-di-n-propylamine	5 U	10 U	5 U	20 U
Hexachloroethane	5 U	10 U	5 U	20 U
Nitrobenzene	5 U	10 U	5 U	20 UJ
Isophorone	5 U	10 U	5 U	20 U
2-Nitrophenol	5 U	10 U	5 U	20 U
2,4-Dimethylphenol	5 U	10 U	5 U	20 U
bis(2-Chloroethoxy)methane	5 U	10 U	5 U	20 U
2,4-Dichlorophenol	5 U	10 U	5 U	20 U
1,2,4-Trichlorobenzene	--	10 U	--	20 U
Naphthalene	5 U	10 U	5 U	20 U
4-Chloroaniline	5 U	10 U	5 U	20 U
Hexachlorobutadiene	5 U	10 U	5 U	20 UJ
4-Chloro-3-methylphenol	5 U	10 U	5 U	20 U
2-Methylnaphthalene	5 U	10 U	5 U	20 U
Hexachlorocyclopentadiene	5 U	10 U	5 U	20 U
2,4,6-Trichlorophenol	5 U	10 U	5 U	20 U
2,4,5-Trichlorophenol	20 U	25 U	20 U	50 U
2-Chloronaphthalene	5 U	10 U	5 U	20 U
2-Nitroaniline	20 U	25 U	20 U	50 UJ
Dimethylphthalate	5 U	10 U	5 U	20 U
Acenaphthylene	5 U	10 U	5 U	20 U
2,6-Dinitrotoluene	5 U	10 U	5 U	20 U
3-Nitroaniline	20 U	25 U	20 U	50 U
Acenaphthene	5 U	10 U	5 U	20 U
2,4-Dinitrophenol	20 U	25 U	20 U	50 U
4-Nitrophenol	20 U	25 U	20 U	50 UJ
Dibenzofuran	5 U	10 U	5 U	20 U
2,4-Dinitrotoluene	5 U	10 U	5 U	20 U
Diethylphthalate	5 U	10 U	5 U	20 U
4-Chlorophenyl-phenylether	5 U	10 U	5 U	20 U

Bold and italicized results have %RPD > 30%.

	Table 2a September 1997 Upper and Lower Aquifer Monitoring Well Sample Data Comparison American Chemical Services, Inc.			
Compound/Analyte	Sample Location/Concentration (µg/l)			
	Babbitt, 1014 South Arbogast		Maze, 1130 Reder Road	
	EADQ2 USEPA	ACS-PWK-02 PRP	EADQ3 USEPA	ACS-PWRE-02 PRP
Semivolatile Organic Compounds				
Phenol	5 UJ	5 U	5 UJ	5 U
bis(2-Chloroethyl)ether	5 UJ	5 U	5 UJ	5 U
2-Chlorophenol	5 UJ	5 U	5 UJ	5 U
1,3-Dichlorobenzene	--	5 U	--	5 U
1,4-Dichlorobenzene	--	5 U	--	5 U
1,2-Dichlorobenzene	--	5 U	--	5 U
2-Methylphenol	5 UJ	5 U	5 UJ	5 U
2,2'-oxybis-(1-Chloropropane)	5 UJ	5 U	5 UJ	5 U
4-Methylphenol	5 UJ	5 U	5 UJ	5 U
N-Nitroso-di-n-propylamine	5 UJ	5 U	5 UJ	5 U
Hexachloroethane	5 UJ	5 U	5 UJ	5 U
Nitrobenzene	5 UJ	5 U	5 UJ	5 U
Isophorone	5 UJ	5 U	5 UJ	5 U
2-Nitrophenol	5 UJ	5 U	5 UJ	5 U
2,4-Dimethylphenol	5 UJ	5 U	5 UJ	5 U
bis(2-Chloroethoxy)methane	5 UJ	5 U	5 UJ	5 U
2,4-Dichlorophenol	5 UJ	5 U	5 UJ	5 U
1,2,4-Trichlorobenzene	--	5 U	--	5 U
Naphthalene	5 UJ	5 U	5 UJ	5 U
4-Chloroaniline	5 UJ	5 U	5 UJ	5 U
Hexachlorobutadiene	5 UJ	5 UJ	5 UJ	5 UJ
4-Chloro-3-methylphenol	5 UJ	5 U	5 UJ	5 U
2-Methylnaphthalene	5 UJ	5 U	5 UJ	5 U
Hexachlorocyclopentadiene	5 UJ	5 U	5 UJ	5 U
2,4,6-Trichlorophenol	5 UJ	5 U	5 UJ	5 U
2,4,5-Trichlorophenol	20 UJ	20 U	20 UJ	20 U
2-Chloronaphthalene	5 UJ	5 U	5 UJ	5 U
2-Nitroaniline	20 UJ	20 U	20 UJ	20 U
Dimethylphthalate	5 UJ	5 U	5 UJ	5 U
Acenaphthylene	5 UJ	5 U	5 UJ	5 U
2,6-Dinitrotoluene	5 UJ	5 U	5 UJ	5 U
3-Nitroaniline	20 UJ	20 U	20 UJ	20 U
Acenaphthene	5 UJ	5 U	5 UJ	5 U
2,4-Dinitrophenol	20 UJ	20 U	20 UJ	20 U
4-Nitrophenol	20 UJ	20 U	20 UJ	20 U
Dibenzofuran	5 UJ	5 U	5 UJ	5 U
2,4-Dinitrotoluene	5 UJ	5 U	5 UJ	5 U
Diethylphthalate	5 UJ	5 U	5 UJ	5 U
4-Chlorophenyl-phenylether	5 UJ	5 U	5 UJ	5 U

Bold and italicized results have %RPD > 30%.

	Table 2a September 1997 Upper and Lower Aquifer Monitoring Well Sample Data Comparison American Chemical Services, Inc.			
Compound/Analyte	Sample Location/Concentration (µg/l)			
	Floyd, 1033 Reder Road		Augsten, 1130 Reder Road	
	EADQ4 USEPA	ACS-PWD-02 PRP	EADQ5 USEPA	ACS-PWRC-02 PRP
Semivolatile Organic Compounds				
Phenol	5 UJ	5 U	5 UJ	5 U
bis(2-Chloroethyl)ether	5 UJ	5 U	5 UJ	5 U
2-Chlorophenol	5 UJ	5 U	5 UJ	5 U
1,3-Dichlorobenzene	--	5 U	--	5 U
1,4-Dichlorobenzene	--	5 U	--	5 U
1,2-Dichlorobenzene	--	5 U	--	5 U
2-Methylphenol	5 UJ	5 U	5 UJ	5 U
2,2'-oxybis-(1-Chloropropane)	5 UJ	5 U	5 UJ	5 U
4-Methylphenol	5 UJ	5 U	5 UJ	5 U
N-Nitroso-di-n-propylamine	5 UJ	5 U	5 UJ	5 U
Hexachloroethane	5 UJ	5 U	5 UJ	5 U
Nitrobenzene	5 UJ	5 U	5 UJ	5 U
Isophorone	5 UJ	5 U	5 UJ	5 U
2-Nitrophenol	5 UJ	5 U	5 UJ	5 U
2,4-Dimethylphenol	5 UJ	5 U	5 UJ	5 U
bis(2-Chloroethoxy)methane	5 UJ	5 U	5 UJ	5 U
2,4-Dichlorophenol	5 UJ	5 U	5 UJ	5 U
1,2,4-Trichlorobenzene	--	5 U	--	5 U
Naphthalene	5 UJ	5 U	5 UJ	5 U
4-Chloroaniline	5 UJ	5 U	5 UJ	5 U
Hexachlorobutadiene	5 UJ	5 UJ	5 UJ	5 UJ
4-Chloro-3-methylphenol	5 UJ	5 U	5 UJ	5 U
2-Methylnaphthalene	5 UJ	5 U	5 UJ	5 U
Hexachlorocyclopentadiene	5 UJ	5 U	5 UJ	5 U
2,4,6-Trichlorophenol	5 UJ	5 U	5 UJ	5 U
2,4,5-Trichlorophenol	20 UJ	20 U	20 UJ	20 U
2-Chloronaphthalene	5 UJ	5 U	5 UJ	5 U
2-Nitroaniline	20 UJ	20 U	20 UJ	20 U
Dimethylphthalate	5 UJ	5 U	5 UJ	5 U
Acenaphthylene	5 UJ	5 U	5 UJ	5 U
2,6-Dinitrotoluene	5 UJ	5 U	5 UJ	5 U
3-Nitroaniline	20 UJ	20 U	20 UJ	20 U
Acenaphthene	5 UJ	5 U	5 UJ	5 U
2,4-Dinitrophenol	20 UJ	20 U	20 UJ	20 U
4-Nitrophenol	20 UJ	20 U	20 UJ	20 U
Dibenzofuran	5 UJ	5 U	5 UJ	5 U
2,4-Dinitrotoluene	5 UJ	5 U	5 UJ	5 U
Diethylphthalate	5 UJ	5 U	5 UJ	5 U
4-Chlorophenyl-phenylether	5 UJ	5 U	5 UJ	5 U

Bold and italicized results have %RPD > 30%.

	Table 2a September 1997 Upper and Lower Aquifer Monitoring Well Sample Data Comparison American Chemical Services, Inc.			
Compound/Analyte	Sample Location/Concentration (µg/l)			
	Littrell, 1002 Reder Road		Rybacki, 430 East Avenue H	
	EADQ6 USEPA	ACS-PWY-02 PRP	EADQ7 USEPA	ACS-PWZ-02 PRP
Semivolatile Organic Compounds				
Phenol	5 UJ	5 U	5 UJ	5 U
bis(2-Chloroethyl)ether	5 UJ	5 U	5 UJ	5 U
2-Chlorophenol	5 UJ	5 U	5 UJ	5 U
1,3-Dichlorobenzene	--	5 U	--	5 U
1,4-Dichlorobenzene	--	5 U	--	5 U
1,2-Dichlorobenzene	--	5 U	--	5 U
2-Methylphenol	5 UJ	5 U	5 UJ	5 U
2,2'-oxybis-(1-Chloropropane)	5 UJ	5 U	5 UJ	5 U
4-Methylphenol	5 UJ	5 U	5 UJ	5 U
N-Nitroso-di-n-propylamine	5 UJ	5 U	5 UJ	5 U
Hexachloroethane	5 UJ	5 U	5 UJ	5 U
Nitrobenzene	5 UJ	5 U	5 UJ	5 U
Isophorone	5 UJ	5 U	5 UJ	5 U
2-Nitrophenol	5 UJ	5 U	5 UJ	5 U
2,4-Dimethylphenol	5 UJ	5 U	5 UJ	5 U
bis(2-Chloroethoxy)methane	5 UJ	5 U	5 UJ	5 U
2,4-Dichlorophenol	5 UJ	5 U	5 UJ	5 U
1,2,4-Trichlorobenzene	--	5 U	--	5 U
Naphthalene	5 UJ	5 U	5 UJ	5 U
4-Chloroaniline	5 UJ	5 U	5 UJ	5 U
Hexachlorobutadiene	5 UJ	5 UJ	5 UJ	5 UJ
4-Chloro-3-methylphenol	5 UJ	5 U	5 UJ	5 U
2-Methylnaphthalene	5 UJ	5 U	5 UJ	5 U
Hexachlorocyclopentadiene	5 UJ	5 U	5 UJ	5 U
2,4,6-Trichlorophenol	5 UJ	5 U	5 UJ	5 U
2,4,5-Trichlorophenol	20 UJ	20 U	20 UJ	20 U
2-Chloronaphthalene	5 UJ	5 U	5 UJ	5 U
2-Nitroaniline	20 UJ	20 U	20 UJ	20 U
Dimethylphthalate	5 UJ	5 U	5 UJ	5 U
Acenaphthylene	5 UJ	5 U	5 UJ	5 U
2,6-Dinitrotoluene	5 UJ	5 U	5 UJ	5 U
3-Nitroaniline	20 UJ	20 U	20 UJ	20 U
Acenaphthene	5 UJ	5 U	5 UJ	5 U
2,4-Dinitrophenol	20 UJ	20 U	20 UJ	20 U
4-Nitrophenol	20 UJ	20 U	20 UJ	20 U
Dibenzofuran	5 UJ	5 U	5 UJ	5 U
2,4-Dinitrotoluene	5 UJ	5 U	5 UJ	5 U
Diethylphthalate	5 UJ	5 U	5 UJ	5 U
4-Chlorophenyl-phenylether	5 UJ	5 U	5 UJ	5 U

Bold and italicized results have %RPD > 30%.

	Table 2b September 1997 Upper and Lower Aquifer Monitoring Well Sample Data Comparison American Chemical Services, Inc.			
Compound/Analyte	Sample Location/Concentration (µg/l)			
	M3S (Upper Aquifer)		M4S (Upper Aquifer)	
	EAEA0 USEPA	ACS-GWM3S-03 PRP	EAZN8 USEPA	ACS-GWM4S-03 PRP
Semivolatile Organic Compounds				
Fluorene	5 U	10 U	5 U	10 U
4-Nitroaniline	20 U	25 U	20 U	25 U
4,6-Dinitro-2-methylphenol	20 U	25 U	20 U	25 U
N-Nitrosodiphenylamine	5 U	10 U	5 U	10 U
4-Bromophenyl-phenylether	5 U	10 U	5 U	10 U
Hexachlorobenzene	5 U	10 U	5 U	10 U
Pentachlorophenol	20 U	25 U	20 U	25 U
Phenanthrene	5 U	10 U	5 U	10 U
Anthracene	5 U	10 U	5 U	10 U
Carbazole	--	10 U	--	10 U
Di-n-butylphthalate	5 U	10 U	5 U	10 U
Fluoranthene	5 U	10 U	5 U	10 U
Pyrene	5 U	10 U	5 U	10 U
Butylbenzylphthalate	5 U	10 U	5 U	10 U
3,3'-Dichlorobenzidine	5 U	10 U	5 U	10 U
Benzo(a)anthracene	5 U	10 U	5 U	10 U
Chrysene	5 U	10 U	5 U	10 U
bis(2-Ethylhexyl)phthalate	5 U	6 JB	5 U	5 JB
Di-n-octylphthalate	5 U	10 U	5 U	10 U
Benzo(b)fluoranthene	5 U	10 U	5 U	10 U
Benzo(k)fluoranthene	5 U	10 U	5 U	10 U
Benzo(a)pyrene	5 U	10 U	5 U	10 U
Indeno(1,2,3-cd)pyrene	5 U	10 U	5 U	10 U
Dibenzo(a,h)anthracene	5 U	10 U	5 U	10 U
Benzo(g,h,i)perylene	5 U	10 U	5 U	10 U
SVOA TICs	2	15	15	20

Bold and italicized results have %RPD > 30%.

	Table 2b September 1997 Upper and Lower Aquifer Monitoring Well Sample Data Comparison American Chemical Services, Inc.			
Compound/Analyte	Sample Location/Concentration (µg/l)			
	M4D (Lower Aquifer)		M1S (Upper Aquifer)	
	EAZN6 USEPA	ACS-GWM4D-03 PRP	EAEA1 USEPA	ACS-GWM1S-03 PRP
Semivolatile Organic Compounds				
Fluorene	5 U	10 U	5 U	10 U
4-Nitroaniline	20 U	25 U	20 U	25 U
4,6-Dinitro-2-methylphenol	20 U	25 U	20 U	25 U
N-Nitrosodiphenylamine	5 U	10 U	5 U	10 U
4-Bromophenyl-phenylether	5 U	10 U	5 U	10 U
Hexachlorobenzene	5 U	10 U	5 U	10 U
Pentachlorophenol	20 U	25 U	20 U	10 U
Phenanthrene	5 U	10 U	5 U	10 U
Anthracene	5 U	10 U	5 U	10 U
Carbazole	--	10 U	--	10 U
Di-n-butylphthalate	5 U	10 U	5 U	10 U
Fluoranthene	5 U	10 U	5 U	10 U
Pyrene	5 U	10 U	5 U	10 U
Butylbenzylphthalate	5 U	10 U	5 U	10 U
3,3'-Dichlorobenzidine	5 U	10 U	5 U	10 U
Benzo(a)anthracene	5 U	10 U	5 U	10 U
Chrysene	5 U	10 U	5 U	10 U
bis(2-Ethylhexyl)phthalate	5 U	2 JB	5 U	8 JB
Di-n-octylphthalate	5 U	10 U	5 U	10 U
Benzo(b)fluoranthene	5 U	10 U	5 U	10 U
Benzo(k)fluoranthene	5 U	10 U	5 U	10 U
Benzo(a)pyrene	5 U	10 U	5 U	10 U
Indeno(1,2,3-cd)pyrene	5 U	10 U	5 U	10 U
Dibenzo(a,h)anthracene	5 U	10 U	5 U	10 U
Benzo(g,h,i)perylene	5 U	10 U	5 U	10 U
SVOA TICs	1	9	4	20

Bold and italicized results have %RPD > 30%.

	Table 2b September 1997 Upper and Lower Aquifer Monitoring Well Sample Data Comparison American Chemical Services, Inc.			
Compound/Analyte	Sample Location/Concentration (µg/l)			
	MW10C (Lower Aquifer)		MW38 (Upper Aquifer)	
	EWW03 USEPA	ACS-GWMW10C-03 PRP	EADX1 USEPA	ACS-GWMW38-03 PRP
Semivolatile Organic Compounds				
Fluorene	5 U	10 U	5 U	10 U
4-Nitroaniline	20 U	25 U	20 U	25 U
4,6-Dinitro-2-methylphenol	20 U	25 U	20 U	25 U
N-Nitrosodiphenylamine	5 U	10 U	5 U	10 U
4-Bromophenyl-phenylether	5 U	10 U	5 U	10 U
Hexachlorobenzene	5 U	10 U	5 U	10 U
Pentachlorophenol	20 U	25 U	20 U	25 U
Phenanthrene	5 U	10 U	5 U	10 U
Anthracene	5 U	10 U	5 U	10 U
Carbazole	--	10 U	--	10 U
Di-n-butylphthalate	5 U	10 U	5 U	10 U
Fluoranthene	5 U	10 U	5 U	10 U
Pyrene	5 U	10 U	5 U	10 U
Butylbenzylphthalate	5 U	10 U	5 U	10 U
3,3'-Dichlorobenzidine	5 U	10 U	5 U	10 U
Benzo(a)anthracene	5 U	10 U	5 U	10 U
Chrysene	5 U	10 U	5 U	10 U
bis(2-Ethylhexyl)phthalate	5 U	8 J	5 U	10 U
Di-n-octylphthalate	5 U	10 U	5 U	10 U
Benzo(b)fluoranthene	5 U	10 U	5 U	10 U
Benzo(k)fluoranthene	5 U	10 U	5 U	10 U
Benzo(a)pyrene	5 U	10 U	5 U	10 U
Indeno(1,2,3-cd)pyrene	5 U	10 U	5 U	10 U
Dibenzo(a,h)anthracene	5 U	10 U	5 U	10 U
Benzo(g,h,i)perylene	5 U	10 U	5 U	10 U
SVOA TICs	5	20	1	4

Bold and italicized results have %RPD > 30%.

	Table 2b September 1997 Upper and Lower Aquifer Monitoring Well Sample Data Comparison American Chemical Services, Inc.			
Compound/Analyte	Sample Location/Concentration (µg/l)			
	MW15 (Upper Aquifer)		MW23 (Lower Aquifer)	
	EYB98 USEPA	ACS-GWMW15-03 PRP	EADX2 USEPA	ACS-GWMW23-03 PRP
Semivolatile Organic Compounds				
Fluorene	5 U	10 U	5 U	10 U
4-Nitroaniline	20 U	25 U	20 U	25 U
4,6-Dinitro-2-methylphenol	20 U	25 U	20 U	25 U
N-Nitrosodiphenylamine	5 U	10 U	5 U	10 U
4-Bromophenyl-phenylether	5 U	10 U	5 U	10 U
Hexachlorobenzene	5 U	10 U	5 U	10 U
Pentachlorophenol	20 U	25 U	20 U	25 U
Phenanthrene	5 U	10 U	5 U	10 U
Anthracene	5 U	10 U	5 U	10 U
Carbazole	--	10 U	--	10 U
Di-n-butylphthalate	5 U	10 U	5 U	10 U
Fluoranthene	5 U	10 U	5 U	10 U
Pyrene	5 U	10 U	5 U	10 U
Butylbenzylphthalate	5 U	10 U	5 U	10 U
3,3'-Dichlorobenzidine	5 U	10 U	5 U	10 U
Benzo(a)anthracene	5 U	10 U	5 U	10 U
Chrysene	5 U	10 U	5 U	10 U
bis(2-Ethylhexyl)phthalate	12	27 B	5 U	10 U
Di-n-octylphthalate	5 U	10 U	5 U	10 U
Benzo(b)fluoranthene	5 U	10 U	5 U	10 U
Benzo(k)fluoranthene	5 U	10 U	5 U	10 U
Benzo(a)pyrene	5 U	10 U	5 U	10 U
Indeno(1,2,3-cd)pyrene	5 U	10 U	5 U	10 U
Dibenzo(a,h)anthracene	5 U	10 U	5 U	10 U
Benzo(g,h,i)perylene	5 U	10 U	5 U	10 U
SVOA TICs	5	18	1	9

Bold and italicized results have %RPD > 30%.

	Table 2b September 1997 Upper and Lower Aquifer Monitoring Well Sample Data Comparison American Chemical Services, Inc.			
Compound/Analyte	Sample Location/Concentration (µg/l)			
	MW29 (Lower Aquifer)		MW12 (Upper Aquifer)	
	EADZ2 USEPA	ACS-GWMW29-03 PRP	EADP9 USEPA	ACS-GWMW12-03 PRP
Semivolatile Organic Compounds				
Fluorene	5 U	10 U	5 U	20 U
4-Nitroaniline	20 U	25 U	20 U	50 U
4,6-Dinitro-2-methylphenol	20 U	25 U	20 U	50 U
N-Nitrosodiphenylamine	5 U	10 U	5 U	20 U
4-Bromophenyl-phenylether	5 U	10 U	5 U	20 U
Hexachlorobenzene	5 U	10 U	5 U	20 U
Pentachlorophenol	20 U	25 U	20 U	50 U
Phenanthrene	5 U	10 U	5 U	20 U
Anthracene	5 U	10 U	5 U	20 U
Carbazole	--	10 U	--	20 U
Di-n-butylphthalate	5 U	10 U	5 U	20 U
Fluoranthene	5 U	10 U	5 U	20 U
Pyrene	5 U	10 U	5 U	20 U
Butylbenzylphthalate	5 U	10 U	5 U	20 U
3,3'-Dichlorobenzidine	5 U	10 U	5 U	20 U
Benzo(a)anthracene	5 U	10 U	5 U	20 U
Chrysene	5 U	10 U	5 U	20 U
bis(2-Ethylhexyl)phthalate	5 U	6 J	5 U	20 U
Di-n-octylphthalate	5 U	10 U	5 U	20 U
Benzo(b)fluoranthene	5 U	10 U	5 U	20 U
Benzo(k)fluoranthene	5 U	10 U	5 U	20 U
Benzo(a)pyrene	5 U	10 U	5 U	20 U
Indeno(1,2,3-cd)pyrene	5 U	10 U	5 U	20 U
Dibenzo(a,h)anthracene	5 U	10 U	5 U	20 U
Benzo(g,h,i)perylene	5 U	10 U	5 U	20 U
SVOA TICs	3	17	2	3

Bold and italicized results have %RPD > 30%.

	Table 2b September 1997 Upper and Lower Aquifer Monitoring Well Sample Data Comparison American Chemical Services, Inc.			
Compound/Analyte	Sample Location/Concentration (µg/l)			
	MW51 (Lower Aquifer)		MW8 (Lower Aquifer)	
	EADQ0 USEPA	ACS-GWMW51-03 PRP	EWW02 USEPA	ACS-GWMW8-03 PRP
Semivolatile Organic Compounds				
Fluorene	5 U	10 U	5 U	20 U
4-Nitroaniline	20 U	25 U	20 U	50 U
4,6-Dinitro-2-methylphenol	20 U	25 U	20 U	50 U
N-Nitrosodiphenylamine	5 U	10 U	5 U	20 U
4-Bromophenyl-phenylether	5 U	10 U	5 U	20 U
Hexachlorobenzene	5 U	10 U	5 U	20 U
Pentachlorophenol	20 U	25 U	20 U	50 U
Phenanthrene	5 U	10 U	5 U	20 U
Anthracene	5 U	10 U	5 U	20 U
Carbazole	--	10 U	--	20 U
Di-n-butylphthalate	2 J	10 U	5 U	20 U
Fluoranthene	5 U	10 U	5 U	20 U
Pyrene	5 U	10 U	5 U	20 U
Butylbenzylphthalate	5 U	10 U	5 U	20 U
3,3'-Dichlorobenzidine	5 U	10 U	5 U	20 U
Benzo(a)anthracene	5 U	10 U	5 U	20 U
Chrysene	5 U	10 U	5 U	20 U
bis(2-Ethylhexyl)phthalate	5 U	10 U	5 U	20 U
Di-n-octylphthalate	5 U	10 U	5 U	20 U
Benzo(b)fluoranthene	5 U	10 U	5 U	20 U
Benzo(k)fluoranthene	5 U	10 U	5 U	20 U
Benzo(a)pyrene	5 U	10 U	5 U	20 U
Indeno(1,2,3-cd)pyrene	5 U	10 U	5 U	20 U
Dibenzo(a,h)anthracene	5 U	10 U	5 U	20 U
Benzo(g,h,i)perylene	5 U	10 U	5 U	20 U
SVOA TICs	6	18	0	2

Bold and italicized results have %RPD > 30%.

	Table 2b September 1997 Upper and Lower Aquifer Monitoring Well Sample Data Comparison American Chemical Services, Inc.			
Compound/Analyte	Sample Location/Concentration (µg/l)			
	Babbitt, 1014 South Arbogast		Maze, 1130 Reder Road	
	EADQ2 USEPA	ACS-PWK-02 PRP	EADQ3 USEPA	ACS-PWRE-02 PRP
Semivolatile Organic Compounds				
Fluorene	5 U	5 U	5 U	5 U
4-Nitroaniline	20 U	20 U	20 U	20 U
4,6-Dinitro-2-methylphenol	20 U	20 U	20 U	20 U
N-Nitrosodiphenylamine	5 U	5 U	5 U	5 U
4-Bromophenyl-phenylether	5 U	5 U	5 U	5 U
Hexachlorobenzene	5 U	5 U	5 U	5 U
Pentachlorophenol	20 U	20 U	20 U	20 U
Phenanthrene	5 U	5 U	5 U	5 U
Anthracene	5 U	5 U	5 U	5 U
Carbazole	--	5 U	--	5 U
Di-n-butylphthalate	5 U	5 U	5 U	5 U
Fluoranthene	5 U	5 U	5 U	5 U
Pyrene	5 U	5 U	5 U	5 U
Butylbenzylphthalate	5 U	5 U	5 U	5 U
3,3'-Dichlorobenzidine	5 U	5 U	5 U	5 U
Benzo(a)anthracene	5 U	5 U	5 U	5 U
Chrysene	5 U	5 U	5 U	5 U
bis(2-Ethylhexyl)phthalate	5 U	5 U	5 U	5 U
Di-n-octylphthalate	5 U	5 U	5 U	5 U
Benzo(b)fluoranthene	5 U	5 U	5 U	5 U
Benzo(k)fluoranthene	5 U	5 U	5 U	5 U
Benzo(a)pyrene	5 U	5 U	5 U	5 U
Indeno(1,2,3-cd)pyrene	5 U	5 U	5 U	5 U
Dibenzo(a,h)anthracene	5 U	5 U	5 U	5 U
Benzo(g,h,i)perylene	5 U	5 U	5 U	5 U
SVOA TICs	0	0	0	0

Bold and italicized results have %RPD > 30%.

	Table 2b September 1997 Upper and Lower Aquifer Monitoring Well Sample Data Comparison American Chemical Services, Inc.			
Compound/Analyte	Sample Location/Concentration (µg/l)			
	Floyd, 1033 Reder Road		Augsten, 1130 Reder Road	
	EADQ4 USEPA	ACS-PWD-02 PRP	EADQ5 USEPA	ACS-PWRC-02 PRP
Semivolatile Organic Compounds				
Fluorene	5 U	5 U	5 U	5 U
4-Nitroaniline	20 U	20 U	20 U	20 U
4,6-Dinitro-2-methylphenol	20 U	20 U	20 U	20 U
N-Nitrosodiphenylamine	5 U	5 U	5 U	5 U
4-Bromophenyl-phenylether	5 U	5 U	5 U	5 U
Hexachlorobenzene	5 U	5 U	5 U	5 U
Pentachlorophenol	20 U	20 U	20 U	20 U
Phenanthrene	5 U	5 U	5 U	5 U
Anthracene	5 U	5 U	5 U	5 U
Carbazole	--	5 U	--	5 U
Di-n-butylphthalate	5 U	5 U	5 U	5 U
Fluoranthene	5 U	5 U	5 U	5 U
Pyrene	5 U	5 U	5 U	5 U
Butylbenzylphthalate	5 U	5 U	5 U	5 U
3,3'-Dichlorobenzidine	5 U	5 U	5 U	5 U
Benzo(a)anthracene	5 U	5 U	5 U	5 U
Chrysene	5 U	5 U	5 U	5 U
bis(2-Ethylhexyl)phthalate	5 U	5 U	5 U	4 J
Di-n-octylphthalate	5 U	5 U	5 U	5 U
Benzo(b)fluoranthene	5 U	5 U	5 U	5 U
Benzo(k)fluoranthene	5 U	5 U	5 U	5 U
Benzo(a)pyrene	5 U	5 U	5 U	5 U
Indeno(1,2,3-cd)pyrene	5 U	5 U	5 U	5 U
Dibenzo(a,h)anthracene	5 U	5 U	5 U	5 U
Benzo(g,h,i)perylene	5 U	5 U	5 U	5 U
SVOA TICs	0	0	0	0

Bold and italicized results have %RPD > 30%.

	Table 2b September 1997 Upper and Lower Aquifer Monitoring Well Sample Data Comparison American Chemical Services, Inc.			
Compound/Analyte	Sample Location/Concentration (µg/l)			
	Littrell, 1002 Reder Road		Rybacki, 430 East Avenue H	
	EADQ6 USEPA	ACS-PWY-02 PRP	EADQ7 USEPA	ACS-PWZ-02 PRP
Semivolatile Organic Compounds				
Fluorene	5 U	5 U	5 U	5 U
4-Nitroaniline	20 U	20 U	20 U	20 U
4,6-Dinitro-2-methylphenol	20 U	20 U	20 U	20 U
N-Nitrosodiphenylamine	5 U	5 U	5 U	5 U
4-Bromophenyl-phenylether	5 U	5 U	5 U	5 U
Hexachlorobenzene	5 U	5 U	5 U	5 U
Pentachlorophenol	20 U	20 U	20 U	20 U
Phenanthrene	5 U	5 U	5 U	5 U
Anthracene	5 U	5 U	5 U	5 U
Carbazole	--	5 U	--	5 U
Di-n-butylphthalate	5 U	5 U	5 U	5 U
Fluoranthene	5 U	5 U	5 U	5 U
Pyrene	5 U	5 U	5 U	5 U
Butylbenzylphthalate	5 U	5 U	5 U	5 U
3,3'-Dichlorobenzidine	5 U	5 U	5 U	5 U
Benzo(a)anthracene	5 U	5 U	5 U	5 U
Chrysene	5 U	5 U	5 U	5 U
bis(2-Ethylhexyl)phthalate	5 U	5 U	5 U	5 U
Di-n-octylphthalate	5 U	5 U	5 U	5 U
Benzo(b)fluoranthene	5 U	5 U	5 U	5 U
Benzo(k)fluoranthene	5 U	5 U	5 U	5 U
Benzo(a)pyrene	5 U	5 U	5 U	5 U
Indeno(1,2,3-cd)pyrene	5 U	5 U	5 U	5 U
Dibenzo(a,h)anthracene	5 U	5 U	5 U	5 U
Benzo(g,h,i)perylene	5 U	5 U	5 U	5 U
SVOA TICs	0	0	0	0

Bold and italicized results have %RPD > 30%.

Notes for Semivolatile Organic Compounds, Table 2

1. Sample EAZN8 from well M4S contained bis(2-chloroethyl)ether at a concentration that exceeded the instrument's calibration range. The result of the sample dilution (EAZN8DL) for this compound was inserted into the table.

2. Sample EADP9 from well MW12 had 2,2'-oxybis(1-chloropropoane) at a concentration that exceeded the instrument's calibration range. The result of the sample dilution (EADP9DL) for this compound was inserted into the table.

3. The laboratory control sample extracted on October 7, 1997, exhibited a surrogate recovery outlier for d5-phenol. This quality control sample and the samples associated with the extraction event, which are EADQ2RE (well RW01), EADQ3RE (well RW02), EADQ4RE (well RW03), EADQ5RE (well RW04), EADQ6RE (well RW05), and EADQ7RE (well RW06), were re-extracted on October 10, 1997. The re-extraction occurred on the eighth day after sample collection; therefore, all data from these samples were flagged as estimated.

4. The results from the analysis of the equipment blank samples EB01 and EB02 contained low levels of bis(2-ethylhexyl)phthalate; therefore, the results from the corresponding investigative samples for this compound were qualified in accordance with the USEPA CLP National Functional Guidelines for Organic Data Review, February 1994.

	Table 3 September 1997 Upper and Lower Aquifer Monitoring Well Sample Data Comparison American Chemical Services, Inc.			
Compound/Analyte	Sample Location/Concentration (µg/l)			
	M3S (Upper Aquifer)		M4S (Upper Aquifer)	
	EAEA0 USEPA	ACS-GWM3S-03 PRP	EAZN8 USEPA	ACS-GWM4S-03 PRP
Pesticides/PCBs				
Alpha-BHC	0.010 U	0.050 U	0.010 U	0.050 U
Beta-BHC	0.010 U	0.050 U	0.010 U	0.050 U
Delta-BHC	0.010 U	0.050 U	0.010 U	0.050 U
Lindane	0.010 U	0.050 U	0.010 U	0.050 U
Heptachlor	0.010 U	0.050 U	0.010 U	0.050 U
Aldrin	0.010 U	0.050 U	0.010 U	0.050 U
Heptachlor Epoxide	0.010 U	0.050 U	0.010 U	0.050 U
Endosulfan I	0.010 U	0.050 U	0.010 U	0.050 U
Dieldrin	0.020 U	0.10 U	0.020 U	0.10 U
p,p'-DDE	0.020 U	0.10 U	0.0094 J	0.10 U
Endrin	0.020 U	0.10 U	0.020 U	0.10 U
Endosulfan II	0.020 U	0.10 U	0.020 U	0.10 U
p,p'-DDD	0.020 U	0.10 U	0.020 U	0.10 U
Endosulfan Sulfate	0.020 U	0.10 U	0.020 U	0.10 U
p,p'-DDT	0.020 U	0.10 U	0.020 U	0.10 U
Methoxychlor	0.10 U	0.50 U	0.10 U	0.50 U
Endrin Ketone	0.020 U	0.10 U	0.020 U	0.10 U
Endrin Aldehyde	0.020 U	0.10 U	0.020 U	0.10 U
Alpha-chlordane	0.010 U	0.050 U	0.010 U	0.050 U
Gamma-chlordane	0.010 U	0.050 U	0.010 U	0.050 U
Toxaphene	1.0 U	5.0 U	1.0 U	5.0 U
Aroclor 1016	0.20 U	1.0 U	0.20 U	1.0 U
Aroclor 1221	0.40 U	2.0 U	0.40 U	2.0 U
Aroclor 1232	0.20 U	1.0 U	0.20 U	1.0 U
Aroclor 1242	0.20 U	1.0 U	0.20 U	1.0 U
Aroclor 1248	0.20 U	1.0 U	0.20 U	1.0 U
Aroclor 1254	0.20 U	1.0 U	0.20 U	1.0 U
Aroclor 1260	0.20 U	1.0 U	0.20 U	1.0 U

Bold and italicized results have %RPD > 30%.

	Table 3 September 1997 Upper and Lower Aquifer Monitoring Well Sample Data Comparison American Chemical Services, Inc.			
Compound/Analyte	Sample Location/Concentration (µg/l)			
	M4D (Lower Aquifer)		M1S (Upper Aquifer)	
	EAZN6 USEPA	ACS-GWM4D-03 PRP	EAEA1 USEPA	ACS-GWM1S-03 PRP
Pesticides/PCBs				
Alpha-BHC	0.010 U	0.050 U	0.010 U	0.050 U
Beta-BHC	0.010 U	0.050 U	0.010 U	0.050 U
Delta-BHC	0.010 U	0.050 U	0.010 U	0.050 U
Lindane	0.010 U	0.050 U	0.010 U	0.050 U
Heptachlor	0.010 U	0.050 U	0.010 U	0.050 U
Aldrin	0.010 U	0.050 U	0.010 U	0.050 U
Heptachlor Epoxide	0.010 U	0.050 U	0.010 U	0.050 U
Endosulfan I	0.010 U	0.050 U	0.010 U	0.050 U
Dieldrin	0.020 U	0.10 U	0.020 U	0.10 U
p,p'-DDE	0.020 U	0.10 U	0.020 U	0.10 U
Endrin	0.020 U	0.10 U	0.020 U	0.10 U
Endosulfan II	0.020 U	0.10 U	0.020 U	0.10 U
p,p'-DDD	0.020 U	0.10 U	0.020 U	0.10 U
Endosulfan Sulfate	0.020 U	0.10 U	0.020 U	0.10 U
p,p'-DDT	0.020 U	0.10 U	0.020 U	0.10 U
Methoxychlor	0.10 U	0.50 U	0.10 U	0.50 U
Endrin Ketone	0.020 U	0.10 U	0.020 U	0.10 U
Endrin Aldehyde	0.020 U	0.10 U	0.020 U	0.10 U
Alpha-chlordane	0.010 U	0.050 U	0.010 U	0.050 U
Gamma-chlordane	0.010 U	0.050 U	0.010 U	0.050 U
Toxaphene	1.0 U	5.0 U	1.0 U	5.0 U
Aroclor 1016	0.20 U	1.0 U	0.20 U	1.0 U
Aroclor 1221	0.40 U	2.0 U	0.40 U	2.0 U
Aroclor 1232	0.20 U	1.0 U	0.20 U	1.0 U
Aroclor 1242	0.20 U	1.0 U	0.20 U	1.0 U
Aroclor 1248	0.20 U	1.0 U	0.20 U	1.0 U
Aroclor 1254	0.20 U	1.0 U	0.20 U	1.0 U
Aroclor 1260	0.20 U	1.0 U	0.20 U	1.0 U

Bold and italicized results have %RPD > 30%.

	Table 3 September 1997 Upper and Lower Aquifer Monitoring Well Sample Data Comparison American Chemical Services, Inc.			
Compound/Analyte	Sample Location/Concentration (µg/l)			
	MW10C (Lower Aquifer)		MW38 (Upper Aquifer)	
	EWW03 USEPA	ACS-GWMW10C-03 PRP	EADX1 USEPA	ACS-GWMW38-03 PRP
Pesticides/PCBs				
Alpha-BHC	0.010 U	0.050 U	0.010 U	0.050 U
Beta-BHC	0.010 U	0.050 U	0.010 U	0.050 U
Delta-BHC	0.010 U	0.050 U	0.010 U	0.050 U
Lindane	0.010 U	0.050 U	0.010 U	0.050 U
Heptachlor	0.010 U	0.050 U	0.010 U	0.050 U
Aldrin	0.010 U	0.050 U	0.010 U	0.050 U
Heptachlor Epoxide	0.010 U	0.050 U	0.010 U	0.050 U
Endosulfan I	0.010 U	0.050 U	0.010 U	0.050 U
Dieldrin	0.020 U	0.10 U	0.020 U	0.10 U
p,p'-DDE	0.020 U	0.10 U	0.020 U	0.10 U
Endrin	0.020 U	0.10 U	0.020 U	0.10 U
Endosulfan II	0.020 U	0.10 U	0.020 U	0.10 U
p,p'-DDD	0.020 U	0.10 U	0.020 U	0.10 U
Endosulfan Sulfate	0.020 U	0.10 U	0.020 U	0.10 U
p,p'-DDT	0.020 U	0.10 U	0.020 U	0.10 U
Methoxychlor	0.10 U	0.50 U	0.10 U	0.50 U
Endrin Ketone	0.020 U	0.10 U	0.020 U	0.10 U
Endrin Aldehyde	0.020 U	0.10 U	0.020 U	0.10 U
Alpha-chlordane	0.010 U	0.050 U	0.010 U	0.050 U
Gamma-chlordane	0.010 U	0.050 U	0.010 U	0.050 U
Toxaphene	1.0 U	5.0 U	1.0 U	5.0 U
Aroclor 1016	0.20 U	1.0 U	0.20 U	1.0 U
Aroclor 1221	0.40 U	2.0 U	0.40 U	2.0 U
Aroclor 1232	0.20 U	1.0 U	0.20 U	1.0 U
Aroclor 1242	0.20 U	1.0 U	0.20 U	1.0 U
Aroclor 1248	0.20 U	1.0 U	0.20 U	1.0 U
Aroclor 1254	0.20 U	1.0 U	0.20 U	1.0 U
Aroclor 1260	0.20 U	1.0 U	0.20 U	1.0 U

Bold and italicized results have %RPD > 30%.

	Table 3 September 1997 Upper and Lower Aquifer Monitoring Well Sample Data Comparison American Chemical Services, Inc.			
Compound/Analyte	Sample Location/Concentration (µg/l)			
	MW15 (Upper Aquifer)		MW23 (Lower Aquifer)	
	EYB98 USEPA	ACS-GWMW15-03 PRP	EADX2 USEPA	ACS-GWMW23-03 PRP
Pesticides/PCBs				
Alpha-BHC	0.010 U	0.050 U	0.010 U	0.050 U
Beta-BHC	0.010 U	0.050 U	0.010 U	0.050 U
Delta-BHC	0.010 U	0.050 U	0.010 U	0.050 U
Lindane	0.010 U	0.050 U	0.010 U	0.050 U
Heptachlor	0.010 U	0.050 U	0.010 U	0.050 U
Aldrin	0.010 U	0.050 U	0.010 U	0.050 U
Heptachlor Epoxide	0.010 U	0.050 U	0.010 U	0.050 U
Endosulfan I	0.010 U	0.050 U	0.010 U	0.050 U
Dieldrin	0.020 U	0.10 U	0.020 U	0.10 U
p,p'-DDE	0.020 U	0.10 U	0.020 U	0.10 U
Endrin	0.020 U	0.10 U	0.020 U	0.10 U
Endosulfan II	0.020 U	0.10 U	0.020 U	0.10 U
p,p'-DDD	0.020 U	0.10 U	0.020 U	0.10 U
Endosulfan Sulfate	0.020 U	0.10 U	0.020 U	0.10 U
p,p'-DDT	0.020 U	0.10 U	0.020 U	0.10 U
Methoxychlor	0.10 U	0.50 U	0.10 U	0.50 U
Endrin Ketone	0.020 U	0.10 U	0.020 U	0.10 U
Endrin Aldehyde	0.020 U	0.10 U	0.020 U	0.10 U
Alpha-chlordane	0.010 U	0.050 U	0.010 U	0.050 U
Gamma-chlordane	0.010 U	0.050 U	0.010 U	0.050 U
Toxaphene	1.0 U	5.0 U	1.0 U	5.0 U
Aroclor 1016	0.20 U	1.0 U	0.20 U	1.0 U
Aroclor 1221	0.40 U	2.0 U	0.40 U	2.0 U
Aroclor 1232	0.20 U	1.0 U	0.20 U	1.0 U
Aroclor 1242	0.20 U	1.0 U	0.20 U	1.0 U
Aroclor 1248	0.20 U	1.0 U	0.20 U	1.0 U
Aroclor 1254	0.20 U	1.0 U	0.20 U	1.0 U
Aroclor 1260	0.20 U	1.0 U	0.20 U	1.0 U

Bold and italicized results have %RPD > 30%.

	Table 3 September 1997 Upper and Lower Aquifer Monitoring Well Sample Data Comparison American Chemical Services, Inc.			
Compound/Analyte	Sample Location/Concentration (µg/l)			
	MW29 (Lower Aquifer)		MW12 (Upper Aquifer)	
	EADZ2 USEPA	ACS-GWMW29-03 PRP	EADP9 USEPA	ACS-GWMW12-03 PRP
Pesticides/PCBs				
Alpha-BHC	0.010 U	0.050 U	0.010 U	0.050 U
Beta-BHC	0.010 U	0.050 U	0.010 U	0.050 U
Delta-BHC	0.010 U	0.050 U	0.010 U	0.050 U
Lindane	0.010 U	0.050 U	0.010 U	0.050 U
Heptachlor	0.010 U	0.050 U	0.010 U	0.050 U
Aldrin	0.010 U	0.050 U	0.010 U	0.050 U
Heptachlor Epoxide	0.010 U	0.050 U	0.010 U	0.050 U
Endosulfan I	0.010 U	0.050 U	0.010 U	0.050 U
Dieldrin	0.020 U	0.10 U	0.020 U	0.10 U
p,p'-DDE	0.020 U	0.10 U	0.020 U	0.10 U
Endrin	0.020 U	0.10 U	0.020 U	0.10 U
Endosulfan II	0.020 U	0.10 U	0.020 U	0.10 U
p,p'-DDD	0.020 U	0.10 U	0.020 U	0.10 U
Endosulfan Sulfate	0.020 U	0.10 U	0.020 U	0.10 U
p,p'-DDT	0.020 U	0.10 U	0.020 U	0.10 U
Methoxychlor	0.10 U	0.50 U	0.10 U	0.50 U
Endrin Ketone	0.020 U	0.10 U	0.020 U	0.10 U
Endrin Aldehyde	0.020 U	0.10 U	0.020 U	0.10 U
Alpha-chlordane	0.010 U	0.050 U	0.010 U	0.050 U
Gamma-chlordane	0.010 U	0.050 U	0.010 U	0.050 U
Toxaphene	1.0 U	5.0 U	1.0 U	5.0 U
Aroclor 1016	0.20 U	1.0 U	0.20 U	1.0 U
Aroclor 1221	0.40 U	2.0 U	0.40 U	2.0 U
Aroclor 1232	0.20 U	1.0 U	0.20 U	1.0 U
Aroclor 1242	0.20 U	1.0 U	0.20 U	1.0 U
Aroclor 1248	0.20 U	1.0 U	0.20 U	1.0 U
Aroclor 1254	0.20 U	1.0 U	0.20 U	1.0 U
Aroclor 1260	0.20 U	1.0 U	0.20 U	1.0 U

Bold and italicized results have %RPD > 30%.

	Table 3 September 1997 Upper and Lower Aquifer Monitoring Well Sample Data Comparison American Chemical Services, Inc.			
Compound/Analyte	Sample Location/Concentration (µg/l)			
	MW51 (Lower Aquifer)		MW8 (Lower Aquifer)	
	EADQ0 USEPA	ACS-GWMW51-03 PRP	EWW02 USEPA	ACS-GWMW8-03 PRP
Pesticides/PCBs				
Alpha-BHC	0.010 U	0.050 U	0.010 U	0.050 U
Beta-BHC	0.010 U	0.050 U	0.010 U	0.050 U
Delta-BHC	0.0054 JP	0.050 U	0.010 U	0.050 U
Lindane	0.010 U	0.050 U	0.010 U	0.050 U
Heptachlor	0.010 U	0.050 U	0.010 U	0.050 U
Aldrin	0.010 U	0.050 U	0.010 U	0.050 U
Heptachlor Epoxide	0.0073 JP	0.050 U	0.010 U	0.050 U
Endosulfan I	0.010 U	0.050 U	0.010 U	0.050 U
Dieldrin	0.020 U	0.10 U	0.020 U	0.10 U
p,p'-DDE	0.020 U	0.10 U	0.020 U	0.10 U
Endrin	0.020 U	0.10 U	0.020 U	0.10 U
Endosulfan II	0.020 U	0.10 U	0.020 U	0.10 U
p,p'-DDD	0.020 U	0.10 U	0.020 U	0.10 U
Endosulfan Sulfate	0.020 U	0.10 U	0.020 U	0.10 U
p,p'-DDT	0.020 U	0.10 U	0.020 U	0.10 U
Methoxychlor	0.10 U	0.50 U	0.10 U	0.50 U
Endrin Ketone	0.020 U	0.10 U	0.020 U	0.10 U
Endrin Aldehyde	0.020 U	0.10 U	0.020 U	0.10 U
Alpha-chlordane	0.010 U	0.050 U	0.010 U	0.050 U
Gamma-chlordane	0.010 U	0.050 U	0.010 U	0.050 U
Toxaphene	1.0 U	5.0 U	1.0 U	5.0 U
Aroclor 1016	0.20 U	1.0 U	0.20 U	1.0 U
Aroclor 1221	0.40 U	2.0 U	0.40 U	2.0 U
Aroclor 1232	0.20 U	1.0 U	0.20 U	1.0 U
Aroclor 1242	0.20 U	1.0 U	0.20 U	1.0 U
Aroclor 1248	0.20 U	1.0 U	0.20 U	1.0 U
Aroclor 1254	0.20 U	1.0 U	0.20 U	1.0 U
Aroclor 1260	0.20 U	1.0 U	0.20 U	1.0 U

Bold and italicized results have %RPD > 30%.

	Table 3 September 1997 Upper and Lower Aquifer Monitoring Well Sample Data Comparison American Chemical Services, Inc.			
Compound/Analyte	Sample Location/Concentration (µg/l)			
	Babbitt, 1014 South Arbogast		Maze, 1130 Reder Road	
	EADQ2 USEPA	ACS-PWK-02 PRP	EADQ3 USEPA	ACS-PWRE-02 PRP
Pesticides/PCBs				
Alpha-BHC	0.010 U	0.010 U	0.010 U	
Beta-BHC	0.010 U	0.010 U	0.010 U	
Delta-BHC	0.010 U	0.010 U	0.010 U	
Lindane	0.010 U	0.010 U	0.010 U	
Heptachlor	0.010 U	0.010 U	0.010 U	
Aldrin	0.010 U	0.010 U	0.010 U	
Heptachlor Epoxide	0.010 U	0.010 U	0.010 U	
Endosulfan I	0.010 U	0.010 U	0.010 U	
Dieldrin	0.020 U	0.020 U	0.020 U	
p,p'-DDE	0.020 U	0.020 U	0.020 U	
Endrin	0.020 U	0.020 U	0.020 U	
Endosulfan II	0.020 U	0.020 U	0.020 U	
p,p'-DDD	0.020 U	0.020 U	0.020 U	
Endosulfan Sulfate	0.020 U	0.020 U	0.020 U	
p,p'-DDT	0.020 U	0.020 U	0.020 U	
Methoxychlor	0.10 U	0.10 U	0.10 U	
Endrin Ketone	0.020 U	0.020 U	0.020 U	
Endrin Aldehyde	0.020 U	0.020 U	0.020 U	
Alpha-chlordane	0.010 U	0.010 U	0.010 U	
Gamma-chlordane	0.010 U	0.010 U	0.010 U	
Toxaphene	1.0 U	1.0 U	1.0 U	
Aroclor 1016	0.20 U	0.20 U	0.20 U	
Aroclor 1221	0.40 U	0.40 U	0.40 U	
Aroclor 1232	0.20 U	0.20 U	0.20 U	
Aroclor 1242	0.20 U	0.20 U	0.20 U	
Aroclor 1248	0.20 U	0.20 U	0.20 U	
Aroclor 1254	0.20 U	0.20 U	0.20 U	
Aroclor 1260	0.20 U	0.20 U	0.20 U	

Bold and italicized results have %RPD > 30%.

	Table 3 September 1997 Upper and Lower Aquifer Monitoring Well Sample Data Comparison American Chemical Services, Inc.			
Compound/Analyte	Sample Location/Concentration (µg/l)			
	Floyd, 1033 Reder Road		Augsten, 1130 Reder Road	
	EADQ4 USEPA	ACS-PWD-02 PRP	EADQ5 USEPA	ACS-PWRC-02 PRP
Pesticides/PCBs				
Alpha-BHC	0.010 U	0.010 U	0.010 U	0.010 U
Beta-BHC	0.010 U	0.010 U	0.010 U	0.010 U
Delta-BHC	0.010 U	0.010 U	0.010 U	0.010 U
Lindane	0.010 U	0.010 U	0.010 U	0.010 U
Heptachlor	0.010 U	0.010 U	0.010 U	0.010 U
Aldrin	0.010 U	0.010 U	0.010 U	0.010 U
Heptachlor Epoxide	0.010 U	0.010 U	0.010 U	0.010 U
Endosulfan I	0.010 U	0.010 U	0.010 U	0.010 U
Dieldrin	0.020 U	0.020 U	0.020 U	0.020 U
p,p'-DDE	0.020 U	0.020 U	0.020 U	0.020 U
Endrin	0.020 U	0.020 U	0.020 U	0.020 U
Endosulfan II	0.020 U	0.020 U	0.020 U	0.020 U
p,p'-DDD	0.020 U	0.020 U	0.020 U	0.020 U
Endosulfan Sulfate	0.020 U	0.020 U	0.020 U	0.020 U
p,p'-DDT	0.020 U	0.020 U	0.020 U	0.020 U
Methoxychlor	0.10 U	0.10 U	0.10 U	0.10 U
Endrin Ketone	0.020 U	0.020 U	0.020 U	0.020 U
Endrin Aldehyde	0.020 U	0.020 U	0.020 U	0.020 U
Alpha-chlordane	0.010 U	0.010 U	0.010 U	0.010 U
Gamma-chlordane	0.010 U	0.010 U	0.010 U	0.010 U
Toxaphene	1.0 U	1.0 U	1.0 U	1.0 U
Aroclor 1016	0.20 U	0.20 U	0.20 U	0.20 U
Aroclor 1221	0.40 U	0.40 U	0.40 U	0.40 U
Aroclor 1232	0.20 U	0.20 U	0.20 U	0.20 U
Aroclor 1242	0.20 U	0.20 U	0.20 U	0.20 U
Aroclor 1248	0.20 U	0.20 U	0.20 U	0.20 U
Aroclor 1254	0.20 U	0.20 U	0.20 U	0.20 U
Aroclor 1260	0.20 U	0.20 U	0.20 U	0.20 U

Bold and italicized results have %RPD > 30%.

	Table 3 September 1997 Upper and Lower Aquifer Monitoring Well Sample Data Comparison American Chemical Services, Inc.			
Compound/Analyte	Sample Location/Concentration (µg/l)			
	Littrell, 1002 Reder Road		Rybacki, 430 East Avenue H	
	EADQ6 USEPA	ACS-PWY-02 PRP	EADQ7 USEPA	ACS-PWZ-02 PRP
Pesticides/PCBs				
Alpha-BHC	0.010 U	0.010 U	0.010 U	0.010 U
Beta-BHC	0.010 U	0.010 U	0.010 U	0.010 U
Delta-BHC	0.010 U	0.010 U	0.010 U	0.010 U
Lindane	0.010 U	0.010 U	0.010 U	0.010 U
Heptachlor	0.010 U	0.010 U	0.010 U	0.010 U
Aldrin	0.010 U	0.010 U	0.010 U	0.010 U
Heptachlor Epoxide	0.010 U	0.010 U	0.010 U	0.010 U
Endosulfan I	0.010 U	0.010 U	0.010 U	0.010 U
Dieldrin	0.020 U	0.020 U	0.020 U	0.020 U
p,p'-DDE	0.020 U	0.020 U	0.020 U	0.020 U
Endrin	0.020 U	0.020 U	0.020 U	0.020 U
Endosulfan II	0.020 U	0.020 U	0.020 U	0.020 U
p,p'-DDD	0.020 U	0.020 U	0.020 U	0.020 U
Endosulfan Sulfate	0.020 U	0.020 U	0.020 U	0.020 U
p,p'-DDT	0.020 U	0.020 U	0.020 U	0.020 U
Methoxychlor	0.10 U	0.10 U	0.10 U	0.10 U
Endrin Ketone	0.020 U	0.020 U	0.020 U	0.020 U
Endrin Aldehyde	0.020 U	0.020 U	0.020 U	0.020 U
Alpha-chlordane	0.010 U	0.010 U	0.010 U	0.010 U
Gamma-chlordane	0.010 U	0.010 U	0.010 U	0.010 U
Toxaphene	1.0 U	1.0 U	1.0 U	1.0 U
Aroclor 1016	0.20 U	0.20 U	0.20 U	0.20 U
Aroclor 1221	0.40 U	0.40 U	0.40 U	0.40 U
Aroclor 1232	0.20 U	0.20 U	0.20 U	0.20 U
Aroclor 1242	0.20 U	0.20 U	0.20 U	0.20 U
Aroclor 1248	0.20 U	0.20 U	0.20 U	0.20 U
Aroclor 1254	0.20 U	0.20 U	0.20 U	0.20 U
Aroclor 1260	0.20 U	0.20 U	0.20 U	0.20 U

Bold and italicized results have %RPD > 30%.

Notes for Pesticides/PCBs, Table 3

1. The data summary sheet for sample ACS-PWRE-02 was missing from the September 1997 Groundwater Sampling Results Report.

	Table 4 September 1997 Upper and Lower Aquifer Monitoring Well Sample Data Comparison American Chemical Services, Inc.			
Compound/Analyte	Sample Location/Concentration (µg/l)			
	M3S (Upper Aquifer)		M4S (Upper Aquifer)	
	97ZB15S03 USEPA	ACS-GWM3S-03 PRP	97ZB15S01 USEPA	ACS-GWM4S-03 PRP
Inorganic Analytes				
Aluminum	***100 U***	***257 JN***	***300***	***1,120 JN***
Antimony	1 U	1.0 U	1 U	1.0 U
Arsenic	16	15.5	6.2	6.8 B
Barium	235	213	494	446
Beryllium	1 U	1.0 U	1 U	1.0 U
Cadmium	0.2 U	1.0 U	0.2 U	1.0 U
Calcium	138,000	134,000 J	307,000	281,000 J
Chromium	10 U	12.7	***39.6***	***28.9***
Cobalt	6 U	1.1 B	***8.1***	***5.4 B***
Copper	6 U	5.0 UB	12.7	10.8 UB
Iron	4,770	4,750	23,200	22,000
Lead	***3***	***1.6 B***	***2 U***	***3.5***
Magnesium	40,000	39,000 J	46,800	47,800 J
Manganese	508	488	538	557
Mercury	0.2 U	0.20 U	0.2 U	0.20 U
Nickel	20 U	13.2 B	30.3	28.4 B
Potassium	11,900	13,400 JE	17,800	22,800 JE
Selenium	2 U	2.0 U	2 U	2.0 U
Silver	6 U	1.0 U	6 U	1.0 U
Sodium	43,400	42,500 JE	75,000	72,800 JE
Thallium	2 U	2.0 U	2 U	2.0 U
Vanadium	5 U	3.3 B	***5.9***	***3.9 B***
Zinc	40 U	18.9 UB	40 U	29.8 U
Cyanide	8 U	10.0 U	8 U	10.0 U

Bold and italicized results have %RPD > 30%.

	Table 4 September 1997 Upper and Lower Aquifer Monitoring Well Sample Data Comparison American Chemical Services, Inc.			
Compound/Analyte	Sample Location/Concentration (µg/l)			
	M4D (Lower Aquifer)		M1S (Upper Aquifer)	
	97ZB15S02 USEPA	ACS-GWM4D-03 PRP	97ZB15S04 USEPA	ACS-GWM1S-03 PRP
Inorganic Analytes				
Aluminum	***513***	***1,140 JN***	***146***	***891 JN***
Antimony	1 U	1.0 U	1 U	1.0 U
Arsenic	1.0	2.0 U	1.6	2.1 B
Barium	199	177 B	974	908
Beryllium	1 U	1.0 U	1 U	1.0 U
Cadmium	0.2 U	1.0 U	0.2 U	1.0 U
Calcium	89,900	88,000 J	265,000	251,000 J
Chromium	11.2	13.7	***10 U***	***22.8***
Cobalt	6 U	1.2 B	6 U	5.1 B
Copper	***8***	***4.2 UB***	6 U	8.3 JUB
Iron	2,250	2,990	12,700	13,300
Lead	***2 U***	***3.1***	2 U	2.5 B
Magnesium	42,500	41,000 J	92,200	91,100 J
Manganese	***40.9***	***56.4***	316	347
Mercury	***0.3***	***0.20 U***	0.2	0.20 U
Nickel	20 U	11.6 B	20 U	22.1 B
Potassium	3,580	4,640 JBE	29,500	38,100 JE
Selenium	1 U	2.0 U	1 U	2.0 U
Silver	6 U	1.0 U	6 U	1.0 U
Sodium	78,900	70,600 JE	135,000	125,000 JE
Thallium	2 U	2.0 U	2 U	2.0 U
Vanadium	5 U	2.0 B	5 U	3.4 B
Zinc	40 U	13.1 UB	40 U	21.3 U
Cyanide	8 U	10.0 U	8 U	10.0 U

Bold and italicized results have %RPD > 30%.

	Table 4 September 1997 Upper and Lower Aquifer Monitoring Well Sample Data Comparison American Chemical Services, Inc.			
Compound/Analyte	Sample Location/Concentration (µg/l)			
	MW10C (Lower Aquifer)		MW38 (Upper Aquifer)	
	97ZB15S07 USEPA	ACS-GWMW10C-03 PRP	97ZB15S08 USEPA	ACS-GWMW38-03 PRP
Inorganic Analytes				
Aluminum	***3,160***	***6,990 JN***	***542***	***1,280***
Antimony	1 U	1.0 U	1 U	1.0 U
Arsenic	8.7	10.1	4	5.3 B
Barium	375	337	48.8	53.9 B
Beryllium	1 U	1.0 U	1 U	1.0 U
Cadmium	0.3	1.0 U	0.3	1.0 U
Calcium	133,000	141,000 J	58,700	57,800
Chromium	***50.5***	***360***	10 U	8.8 B
Cobalt	***9***	***13.9 B***	6 U	2.4 B
Copper	***21.3***	***45.5 J***	***6 U***	***14.1 B***
Iron	***14,900***	***21,300***	12,300	16,200
Lead	***14***	***18.9***	13	10.0 U
Magnesium	61,900	65,900 J	19,400	20,500
Manganese	***286***	***447***	586	594
Mercury	0.2 U	0.20 U	0.2 UJ	0.20 U
Nickel	***33.2***	***257***	20 U	12.3 B
Potassium	***4,410***	***7,460 JE***	***500 U***	***959 JBE***
Selenium	2 U	2.0 U	1 U	2.0 U
Silver	6 U	1.0 U	6 U	1.0 U
Sodium	192,000	158,000 JE	5,060	7,380 U
Thallium	2 U	2.0 U	2 U	2.0 U
Vanadium	***8.5***	***14.8 B***	10.8	14.2 B
Zinc	***69.5***	***119 J***	***40 U***	***56.1***
Cyanide	8 U	10.0 U	8 U	10.0 U

Bold and italicized results have %RPD > 30%.

	Table 4 September 1997 Upper and Lower Aquifer Monitoring Well Sample Data Comparison American Chemical Services, Inc.			
Compound/Analyte	Sample Location/Concentration (µg/l)			
	MW15 (Upper Aquifer)		MW23 (Lower Aquifer)	
	97ZB15S05 USEPA	ACS-GWMW15-03 PRP	97ZB15S09 USEPA	ACS-GWMW23-03 PRP
Inorganic Analytes				
Aluminum	***180***	***487 JN***	***3,350***	***2,440***
Antimony	1 U	1.0 U	1 U	1.0 U
Arsenic	61	57.6	3	3.5 B
Barium	1,520	1,360	148	133 B
Beryllium	1 U	1.0 U	1 U	1.0 U
Cadmium	0.2 U	1.0 U	0.2 U	1.0 U
Calcium	81,400	73,000 J	88,500	84,800
Chromium	10 U	12.8	***10.9***	***18.6***
Cobalt	6 U	4.6 B	6 U	4.7 B
Copper	***18.3***	***13.2 JB***	15.3	19.6 B
Iron	7,840	7,010	11,900	11,300
Lead	***3***	***1.3 B***	6	7.7 U
Magnesium	83,000	74,300 J	23,300	23,800
Manganese	172	141	384	377
Mercury	0.2 U	0.20 U	0.2 UJ	0.20 U
Nickel	20 U	24.3 B	21.4	19.6 B
Potassium	106,000	118,000 JE	***2,500***	***3,940 JBE***
Selenium	2 U	2.0 U	1 U	2.0 U
Silver	6 U	1.0 U	6 U	1.0 U
Sodium	531,000	415,000 JE	75,700	75,300
Thallium	2 U	2.8 UB	2 U	2.0 U
Vanadium	5 U	1.1 B	***10.4***	***6.7 B***
Zinc	40 U	17.9 UB	40 U	32.9 U
Cyanide	8 U	10.0 U	8 U	10.0 U

Bold and italicized results have %RPD > 30%.

	Table 4 September 1997 Upper and Lower Aquifer Monitoring Well Sample Data Comparison American Chemical Services, Inc.			
Compound/Analyte	Sample Location/Concentration (µg/l)			
	MW29 (Lower Aquifer)		MW12 (Upper Aquifer)	
	97ZB15S10 USEPA	ACS-GWMW29-03 PRP	98ZB02S11 USEPA	ACS-GWMW12-03 PRP
Inorganic Analytes				
Aluminum	100 U	90.5 UB	2,000	1,690
Antimony	1 U	1.0 U	1 U	1.2 UB
Arsenic	2 U	2.0 U	6	7.8 JB
Barium	115	116 B	78.5	72.5 B
Beryllium	1 U	1.0 U	1 U	1.0 U
Cadmium	0.2 U	1.0 U	0.2 U	1.0 U
Calcium	91,800	93,500	46,900	47,400
Chromium	10 U	1.7 UB	10 U	8.9 JB
Cobalt	6 U	1.0 U	6 U	2.4 JB
Copper	6 U	2.6 UB	***9.1***	***15.0 JB***
Iron	5,820	5,790	28,800	24,400
Lead	2 U	1.0 B	9	12.0
Magnesium	40,300	42,500	16,600	17,300
Manganese	94.7	96.6	1,210	1,210
Mercury	0.2 UJ	0.20 U	0.2 UJ	0.20 U
Nickel	20 U	5.0 UB	20 U	7.4 B
Potassium	***1,590***	***2,950 JBE***	2,420	2,930 JBE
Selenium	4 U	2.0 U	2 U	2.0 U
Silver	6 U	1.0 U	6 U	1.0 U
Sodium	70,000	73,900 JE	8,160	10,600 UJE
Thallium	2 U	2.0 U	2 U	2.3 UB
Vanadium	5 U	1.0 U	23.1	20.2 B
Zinc	40 U	10.9 UB	40 U	27.1 U
Cyanide	8 U	10.0 U	8 U	10.0 U

Bold and italicized results have %RPD > 30%.

	Table 4 September 1997 Upper and Lower Aquifer Monitoring Well Sample Data Comparison American Chemical Services, Inc.			
Compound/Analyte	Sample Location/Concentration (µg/l)			
	MW51 (Lower Aquifer)		MW8 (Lower Aquifer)	
	98ZB02S12 USEPA	ACS-GWMW51-03 PRP	97ZB15S06 USEPA	ACS-GWMW8-03 PRP
Inorganic Analytes				
Aluminum	830	1,040	***317***	***839 JN***
Antimony	1 U	1.0 U	1 U	1.0 U
Arsenic	2 U	2.0 U	5.1	6.1 B
Barium	383	397	117	111 B
Beryllium	1 U	1.0 U	1 U	1.0 U
Cadmium	0.2 U	1.0 U	0.2 U	1.0 U
Calcium	136,000	138,000	54,200	55,200 J
Chromium	10 U	7.5 B	***11.6***	***36.9***
Cobalt	6 U	2.3 B	6 U	1.8 B
Copper	6 U	6.7 B	9.8	7.3 UB
Iron	8,030	8,660	***2,280***	***3,420***
Lead	4 U	3.3	4	3.1
Magnesium	57,700	61,600	17,400	17,700 J
Manganese	121	128	116	134
Mercury	0.2 UJ	0.20 U	0.2	0.20 U
Nickel	20 U	10.8 B	20 U	23.2 B
Potassium	***2,390***	***3,880 JBE***	1,670	1,410 JBE
Selenium	6 U	2.0 U	1 U	2.0 U
Silver	6 U	1.0 U	6 U	1.0 U
Sodium	102,000	108,000 JE	12,500	13,500 JE
Thallium	2 U	2.0 U	2 U	2.0 U
Vanadium	***5***	***1.8 U***	5 U	2.0 B
Zinc	40 U	18.9 UB	40 U	33.7 U
Cyanide	8 U	10.0 U	8 U	10.0 U

Bold and italicized results have %RPD > 30%.

	Table 4 September 1997 Upper and Lower Aquifer Monitoring Well Sample Data Comparison American Chemical Services, Inc.			
Compound/Analyte	Sample Location/Concentration (µg/l)			
	Babbitt, 1014 South Arbogast		Maze, 1130 Reder Road	
	98ZB02S13 USEPA	ACS-PWK-02 PRP	98ZB02S14 USEPA	ACS-PWRE-02 PRP
Inorganic Analytes				
Aluminum	***172***	***103 JBN***	100 U	
Antimony	1 U	1.0 U	1 U	
Arsenic	2 U	2.0 U	2 U	
Barium	46	48.5 B	6 U	
Beryllium	1 U	1.0 U	1 U	
Cadmium	0.2 U	1.0 U	0.2 U	
Calcium	88,500	89,500	589	
Chromium	10 U	1.0 U	10 U	
Cobalt	6 U	1.0 U	6 U	
Copper	***35.9***	***102***	6 U	
Iron	174	150	150	
Lead	***8***	***11.3***	4 U	
Magnesium	29,100	30,500	489	
Manganese	862	854	5 U	
Mercury	0.2 U	0.20 U	0.2 U	
Nickel	20 U	2.7 B	20 U	
Potassium	***3,850***	***5,310 JE***	1,970	
Selenium	2 U	2.0 U	4 U	
Silver	6 U	1.0 U	6 U	
Sodium	109,000	108,000	222,000	
Thallium	2 U	2.0 U	2 U	
Vanadium	5 U	1.0 U	5 U	
Zinc	49.6	64.8	40 U	
Cyanide	8 U	10.0 U	8 U	

Bold and italicized results have %RPD > 30%.

	Table 4 September 1997 Upper and Lower Aquifer Monitoring Well Sample Data Comparison American Chemical Services, Inc.			
Compound/Analyte	Sample Location/Concentration (µg/l)			
	Floyd, 1033 Reder Road		Augsten, 1130 Reder Road	
	98ZB02S15 USEPA	ACS-PWD-02 PRP	98ZB02S16 USEPA	ACS-PWRC-02 PRP
Inorganic Analytes				
Aluminum	100 U	11.7 UJBN	100 U	10.0 UJN
Antimony	1 U	1.0 U	1 U	1.0 U
Arsenic	2 U	2.0 U	2 U	2.0 U
Barium	142	150 B	173	178 B
Beryllium	1 U	1.0 U	1 U	1.0 U
Cadmium	0.2 U	1.0 U	0.2 U	1.0 U
Calcium	90,200	95,300	94,400	96,800
Chromium	10 U	1.0 U	10 U	1.0 U
Cobalt	6 U	1.0 U	6 U	1.0 U
Copper	***10.1***	***71.2***	6 U	3.0 B
Iron	2,570	2,750	2,370	2,270
Lead	***4 U***	***10.2***	4 U	1.0 U
Magnesium	45,200	49,600	50,700	53,900
Manganese	37.9	46.2	19.9	17.3
Mercury	0.2 U	0.20 U	0.2 U	0.20 U
Nickel	20 U	4.3 B	20 U	1.2 B
Potassium	2,420	2,950 JBE	2,810	3,450 JBE
Selenium	4 U	2.0 U	2 U	2.0 U
Silver	6 U	1.0 U	6 U	1.0 U
Sodium	18,400	24,100	24,500	29,100
Thallium	2 U	2.0 U	2 U	2.6 UB
Vanadium	5 U	1.0 U	5 U	1.0 U
Zinc	***131***	***1,140***	40 U	17.3 UB
Cyanide	8 U	10.0 U	8 U	10.0 U

Bold and italicized results have %RPD > 30%.

	Table 4 September 1997 Upper and Lower Aquifer Monitoring Well Sample Data Comparison American Chemical Services, Inc.			
Compound/Analyte	Sample Location/Concentration (µg/l)			
	Littrell, 1002 Reder Road		Rybacki, 430 East Avenue H	
	98ZB02S17 USEPA	ACS-PWY-02 PRP	98ZB02S18 USEPA	ACS-PWZ-02 PRP
Inorganic Analytes				
Aluminum	100 U	10.0 UJN	100 U	10.0 UJN
Antimony	1 U	1.0 U	1 U	1.0 U
Arsenic	2 U	2.0 U	2 U	2.0 U
Barium	127	132 B	12.1	13.2 B
Beryllium	1 U	1.0 U	1 U	1.0 U
Cadmium	0.2 U	1.0 U	0.4	1.0 U
Calcium	80,100	82,900	43,800	45,100
Chromium	10 U	3.8 UB	10 U	1.0 U
Cobalt	6 U	1.0 U	6 U	1.0 U
Copper	6 U	1.3 B	14.8	14.2 B
Iron	2,650	2,540	80 U	39.8 UB
Lead	2 U	1.0 U	2 U	2.0 UB
Magnesium	40,700	43,500	15,100	16,000
Manganese	30	28.2	5 U	1.0 U
Mercury	0.2 U	0.20 U	0.2 U	0.20 U
Nickel	20 U	1.3 B	20 U	1.1 B
Potassium	2,250	2,800 JBE	3,700	3,840 JBE
Selenium	4 U	2.0 U	2 U	2.0 U
Silver	6 U	1.0 U	6 U	1.0 U
Sodium	18,600	24,300	***6,900***	***9,430***
Thallium	2 U	2.0 U	2 U	2.0 U
Vanadium	5 U	1.0 U	5 U	1.0 U
Zinc	40 U	26.6 U	150	158.0
Cyanide	8 U	10.0 U	8 U	10.0 U

Bold and italicized results have %RPD > 30%.

Notes for Inorganic Analytes, Table 4

1. The holding time for mercury analysis, which is 28 days, was exceeded for samples 97ZB15S08 (well MW38), 97ZB15S09 (well MW23), 97ZB15S10 (well MW29), 98ZB02S11 (well MW12), and 98ZB02S12 (well MW51); therefore, the mercury results from these samples were qualified as estimated.

2. The data summary sheet for sample ACS-PWRE-02 was missing from the September 1997 Groundwater Sampling Results Report.

Appendix A

Chain-of-Custody Records
Data Validation Narratives
Analytical Data Sheets
for
USEPA Split Samples

United States Environmental Protection Agency
Contract Laboratory Program

Organic Traffic Report & Chain of Custody Record
(For Organic CLP Analysis)

SAS No. (if applicable):

Case No: 25704

1. Project Code	Account Code	2. Region No. 5	Sampling Co. BVSPC	4. Date Shipped 10-2-97	Carrier Federal Express
Regional Information TGB102		Sampler (Name) Steve Mrkvicka		Airbill Number 5654191104	
Non-Superfund Program		Sampler Signature		5. Ship To Rollins Environmental Inc. - ENCOTEC 3985 Research Park Drive Ann Arbor, MI 48108 ATTN: Tom Marshall	
Site Name American Chemical Services		3. Purpose* Lead: [ ] SF [X] PRP [ ] ST [ ] FED; Early Action: [ ] CLEM [ ] PA [ ] REM [ ] RI [ ] SI [ ] ESI; Long-Term Action: [ ] FS [X] RD [X] RA [ ] O&M [ ] NPLD			
City, State Griffith, IN	Site Spill ID J7				

6. Matrix (Enter in Column A)
1. Surface Water
2. Ground Water
3. Leachate
4. Field QC
5. Soil/Sediment
6. Oil (High only)
7. Waste (High only)
8. Other (Specify in Column A)

7. Preservative (Enter in Column D)
1. HCl
2. HNO3
3. NaHSO4
4. H2SO4
5. Ice only
6. Other (Specify in Column D)
N. Not preserved

CLP Sample Numbers (from labels)	A Matrix (from Box 6) Other:	B Conc.: Low Med High	C Sample Type: Comp./ Grab	D Preservative (from Box 7) Other:	E RAS Analysis VOA	BNA	Pest/PCB	High only ARO/TOX	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/ Year/Time Sample Collection	I Corresponding CLP Inorganic Sample No.	J Sampler Initials	K Field QC Qualifier (B = Blank S = Spike D = Duplicate R = Rinsate PE = Perform. Eval. — = Not a QC Sample)
EADQ2	2	L	G	1	X				5-129513,4	ACS-RW01-001	10-2-97 1220	—	SRM	—
EADQ6	2	L	G	1	X				5-129538,9	ACS-RW05-001	10-2-97 1135	—	SRM	—
EADQ4	2	L	G	1	X				5-129526,7	ACS-RW03-001	10-2-97 1355	—	SRM	—
EADQ5	2	L	G	1	X				5-129532,3	ACS-RW04-001	10-2-97 1330	—	SRM	—
EADS5	2	L	G	1	X				5-129572,3	ACS-TB07-201	10-2-97 1500	—	SRM	B
EADQ7	2	L	G	1	X				5-129544,5	ACS-RW06-001	10-2-97 1445	—	SRM	—
EADQ3	2	L	G	1	X				5-129519,20	ACS-RW02-001	10-2-97 1515	—	SRM	—

Shipment for Case Complete? (Y/N) Y	Page 2 of 2	Sample(s) to be Used for Laboratory QC	Additional Sampler Signatures

Chain of Custody Seal Number(s): 153281, 153282

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[signature]	10-2-97 1630				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks Is custody seal intact? Y/N/none	

A21-012-3 REV. 3/93

DISTRIBUTION: Blue - Region Copy; White - Lab Copy for Return to Region; Pink - SMO Copy; Yellow - Lab Copy for Return to SMO

EPA Form 9110-2

SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS
*SEE REVERSE FOR PURPOSE CODE DEFINITIONS

359289

United States Environmental Protection Agency
Contract Laboratory Program

ganic Traffic Report & Chain of Custody Record
(For Organic CLP Analysis)

SAS No. (if applicable):

Case N: 25704

1. Project Code	Account Code	2. Region No.: 5	Sampling Co.: BVSPC	4. Date Shipped: 10-2-97	Carrier: Federal Express
Regional Information: TGB102		Sampler (Name): Steve Mrkyicka		Airbill Number: 5654191104	
Non-Superfund Program: ~~TGB102~~ SRM		Sampler Signature: [signature]		5. Ship To: Rollins Environmental Inc.-ENCOTEC, 3985 Research Park Drive, Ann Arbor, MI 48108	
Site Name: American Chemical Services		3. Purpose*		ATTN: Tom Marshall	
City, State: Griffith, IN	Site Spill ID: J7				

3. Purpose*: Lead: [ ] SF [X] PRP [ ] ST [ ] FED; Early Action: [ ] CLEM [ ] PA [ ] REM [ ] RI [ ] SI [ ] ESI; Long-Term Action: [ ] FS [X] RD [X] RA [ ] O&M [ ] NPLD

6. Matrix (Enter in Column A): 1. Surface Water 2. Ground Water 3. Leachate 4. Field QC 5. Soil/Sediment 6. Oil (High only) 7. Waste (High only) 8. Other (Specify in Column A)

7. Preservative (Enter in Column D): 1. HCl 2. HNO3 3. NaHSO4 4. H2SO4 5. Ice only 6. Other (Specify in Column D) N. Not preserved

CLP Sample Numbers (from labels)	A Matrix (from Box 6) Other:	B Conc.: Low Med High	C Sample Type: Comp./ Grab	D Preservative (from Box 7) Other:	E RAS Analysis VOA	BNA	Pest/PCB	High only ARO/TOX	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/ Year/Time Sample Collection	I Corresponding CLP Inorganic Sample No.	J Sampler Initials	K Field QC Qualifier (B = Blank S = Spike D = Duplicate R = Rinsate PE = Perform. Eval. — = Not a QC Sample)
EADQ2	2	L	G	5		X	X		5-129515,6	ACS-RW01-001	10-2-97 1220	—	SRM	—
EADQ6	2	L	G	5		X	X		5-129540,1	ACS-RW05-001	10-2-97 1135	—	SRM	—
EADQ4	2	L	G	5		X	X		5-129528,9	ACS-RW03-001	10-2-97 1355	—	SRM	—
EADQ5	2	L	G	5		X	X		5-129534,5	ACS-RW04-001	10-2-97 1330	—	SRM	—
~~EADQ7~~	~~2~~	~~L~~	~~G~~	~~5~~		~~X~~	~~X~~		~~5-129546,7~~	~~ACS-RW06-001~~	~~10-2-97 1445~~	~~—~~	~~SRM~~	~~—~~
SRM 10-2-97 EADQ7	2	L	G	5		X	X		5-129546,7	ACS-RW06-001	10-2-97 1445	—	SRM	—
EADQ3	2	L	G	5		X	X		5-129521,3	ACS-RW02-001	10-2-97 1515	—	SRM	—

Shipment for Case Complete? (Y/N): Y	Page 1 of 2	Sample(s) to be Used for Laboratory QC	Additional Sampler Signatures
			Chain of Custody Seal Number(s): 153279, 153280

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[signature]	10-2-97 1630				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks: Is custody seal intact? Y/N/none	

A21-012-3 REV. 3/93

DISTRIBUTION: Blue - Region Copy; White - Lab Copy for Return to Region; Pink - SMO Copy; Yellow - Lab Copy for Return to SMO

EPA Form 9110-2

SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS
*SEE REVERSE FOR PURPOSE CODE DEFINITIONS

359290

EPA United States Environmental Protection Agency
Contract Laboratory Program

ganic Traffic Report & Chain of Custody Record
(For Organic CLP Analysis)

SAS No. (if applicable):

Case N: 25704

1. Project Code	Account Code	2. Region No. 5	Sampling Co. BVSPC	4. Date Shipped 9-25-97	Carrier Federal Express
Regional Information TGB102		Sampler (Name) Steve Mrkvicka		Airbill Number 5654191082	
Non-Superfund Program		Sampler Signature [signature]		5. Ship To Rollins Environmental, Inc./ENCOTEC 3985 Research Park Drive Ann Arbor, MI 48108 ATTN: Tom Marshall	
Site Name American Chemical Services		3. Purpose* Lead: SF, [X] PRP, ST, FED; Early Action: CLEM, PA, REM, RI, SI, ESI; Long-Term Action: FS, [X] RD, [X] RA, O&M, NPLD			
City, State Griffith, IN	Site Spill ID J7				

6. Matrix (Enter in Column A): 1. Surface Water 2. Ground Water 3. Leachate 4. Field QC 5. Soil/Sediment 6. Oil (High only) 7. Waste (High only) 8. Other (Specify in Column A)

7. Preservative (Enter in Column D): 1. HCl 2. HNO3 3. NaHSO4 4. H2SO4 5. Ice only 6. Other (Specify in Column D) N. Not preserved

CLP Sample Numbers (from labels)	A Matrix (from Box 6) Other:	B Conc.: Low Med High	C Sample Type: Comp./ Grab	D Preservative (from Box 7) Other:	E RAS Analysis VOA	BNA	Pest/PCB	High only ARO/TOX	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/ Year/Time Sample Collection	I Corresponding CLP Inorganic Sample No.	J Sampler Initials	K Field QC Qualifier (B = Blank S = Spike D = Duplicate R = Rinsate PE = Perform. Eval. — = Not a QC Sample)
EADX1	2	L	G	1	X				5-129487,8	ACS-GW08-001	9-25-97 1005	—	SRM	—
EADX1	2	L	G	5		X	X		5-129489,90	↓	↓	—	SRM	—
EADX2	2	L	G	1	X				5-129493,4	ACS-GW09-001	9-25-97 1135	—	SRM	—
EADX2	2	L	G	5		X	X		5-129495,6	↓	↓	—	SRM	—
EAD21	2	L	G	1	X				5-129499,500	ACS-TB04-201	9-25-97 1625	—	SRM	B

Shipment for Case Complete? (Y/N)	Page 1 of 1	Sample(s) to be Used for Laboratory QC	Additional Sampler Signatures	Chain of Custody Seal Number(s) 153273, 153274

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[signature]	9-25-97 1700				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks Is custody seal intact? Y/N/none	

A21-012-3 REV. 3/93

DISTRIBUTION: Blue - Region Copy; White - Lab Copy for Return to Region; Pink - SMO Copy; Yellow - Lab Copy for Return to SMO

EPA Form 9110-2

SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS
*SEE REVERSE FOR PURPOSE CODE DEFINITIONS

359286

EPA United States Environmental Protection Agency
Contract Laboratory Program

ganic Traffic Report & Chain of Custody Record
(For Organic CLP Analysis)

SAS No. (if applicable)

Case N 25704

1. Project Code	Account Code	2. Region No.	Sampling Co.	4. Date Shipped	Carrier
		5	BVSPC	9-23-97	Federal Express

Regional Information: TGB102

Sampler (Name): Steve Mrkvicka

Airbill Number: 5654191045

Non-Superfund Program

Sampler Signature: [signature]

Site Name: American Chemical Services

City, State: Griffith, IN

Site Spill ID: J7

3. Purpose*
Lead: [ ] SF [X] PRP [ ] ST [ ] FED
Early Action: [ ] CLEM [ ] PA [ ] REM [ ] RI [ ] SI [ ] ESI
Long-Term Action: [ ] FS [X] RD [X] RA [ ] O&M [ ] NPLD

5. Ship To
Rollins Environmental, Inc./ENCOTEC
3985 Research Park Drive
Ann Arbor, MI 48108
ATTN: Tom Marshall

6. Matrix (Enter in Column A)
1. Surface Water
2. Ground Water
3. Leachate
4. Field QC
5. Soil/Sediment
6. Oil (High only)
7. Waste (High only)
8. Other (Specify in Column A)

7. Preservative (Enter in Column D)
1. HCl
2. HNO3
3. NaHSO4
4. H2SO4
5. Ice only
6. Other (Specify in Column D)
N. Not preserved

CLP Sample Numbers (from labels)	A Matrix (from Box 6) Other:	B Conc.: Low Med High	C Sample Type: Comp./ Grab	D Preservative (from Box 7) Other:	E RAS Analysis VOA	BNA	Pest/PCB	High only ARO/TOX	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/ Year/Time Sample Collection	I Corresponding CLP Inorganic Sample No.	J Sampler Initials	K Field QC Qualifier (B = Blank S = Spike D = Duplicate R = Rinsate PE = Perform. Eval — = Not a QC Sample)
EAEA1	2	L	G	1	X				5-129428,9	ACS-GW04-001	9-23-97 1225	—	SRM	
EAEA1	2	L	G	5		X	X		5-129430,1	↓	↓	—	SRM	
EYB98	2	L	G	1	X				5-129432,3	ACS-GW05-001	9-23-97 1555	—	SRM	
EYB98	2	L	G	5		X	X		5-129434,5	↓	↓	—	SRM	
~~EYB99~~ SRM EYCØØ	2	L	G	1	X				5-129439,40	ACS-TB02-201	9-23-97 1650	—	SRM	

Shipment for Case Complete? (Y/N) N

Page 1 of 1

Sample(s) to be Used for Laboratory QC

Additional Sampler Signatures

Chain of Custody Seal Number(s): 153267, 153268

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks Is custody seal intact? Y/N/none	

A21-012-3 REV. 3/93

DISTRIBUTION: Blue - Region Copy; White - Lab Copy for Return to Region; Pink - SMO Copy; Yellow - Lab Copy for Return to SMO

EPA Form 9110-2

SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS
*SEE REVERSE FOR PURPOSE CODE DEFINITIONS

359282

EPA United States Environmental Protection Agency
Contract Laboratory Program

ganic Traffic Report & Chain of Custody Record
(For Organic CLP Analysis)

SAS No. (if applicable):

Case N: 25704

1. Project Code	Account Code	2. Region No.	Sampling Co.	4. Date Shipped	Carrier
		5	BVSPC	9-23-97	Federal Express

Regional Information: TGB102

Sampler (Name): Steve Mrkyicka

Airbill Number: 5654191045

Non-Superfund Program

Sampler Signature: [signature]

Site Name: American Chemical Services

3. Purpose*

Lead: [ ] SF [X] PRP [ ] ST [ ] FED

Early Action: [ ] CLEM [ ] PA [ ] REM [ ] RI [ ] SI [ ] ESI

Long-Term Action: [ ] FS [X] RD [X] RA [ ] O&M [ ] NPLD

5. Ship To: Rollins Environmental, Inc./ENCOTEC
3985 Research Park Drive
Ann Arbor, MI 48108
ATTN: Tom Marshall

City, State: Griffith, IN

Site Spill ID: J7

6. Matrix (Enter in Column A)
1. Surface Water
2. Ground Water
3. Leachate
4. Field QC
5. Soil/Sediment
6. Oil (High only)
7. Waste (High only)
8. Other (Specify in Column A)

7. Preservative (Enter in Column D)
1. HCl
2. HNO3
3. NaHSO4
4. H2SO4
5. Ice only
6. Other (Specify in Column D)
N. Not preserved

CLP Sample Numbers (from labels)	A Matrix (from Box 6) Other:	B Conc.: Low Med High	C Sample Type: Comp./ Grab	D Preservative (from Box 7) Other:	E RAS Analysis VOA	BNA	Pest/PCB	High only ARO/TOX	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/ Year/Time Sample Collection	I Corresponding CLP Inorganic Sample No.	J Sampler Initials	K Field QC Qualifier (B = Blank S = Spike D = Duplicate R = Rinsate PE = Perform. Eval. — = Not a QC Sample)
EAZN8	2	L	G	1	X				5-129406-11	ACS-GW01-001	9-23-97 0930	—	SRM	
EAZN8	2	L	G	5		X	X		5-129412-15	↓	↓	—		
EAZN6	2	L	G	1	X				5-129416,7	ACS-GW02-001	9-23-97 1010	—		
EAZN6	2	L	G	5		X	X		5-129418,9	↓		—		
EAZN7	2	L	G	1	X				5-129420,1	ACS-GW02-101	↓	—	↓	D
EAZN7	2	L	G	5		X	X		5-129422,3	↓	9-23-97 1010	—	SRM	D
EAEA0	2	L	G	1	X				5-129424,5	ACS-GW03-001	9-23-97 1140	—	SRM	
EAEA0	2	L	G	5		X	X		5-129426,7	↓	↓	—	SRM	
EYB99	2	L	G	1	X				5-129436,7	ACS-TB01-001	9-23-97 1620	—	SRM	B

Shipment for Case Complete? (Y/N): N

Page 1 of 1

Sample(s) to be Used for Laboratory QC: EAZN8

Additional Sampler Signatures:

Chain of Custody Seal Number(s): 153265, 153266

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[signature]	9-23-97 1730				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks Is custody seal intact? Y/N/none	

A21-012-3 REV. 3/93

DISTRIBUTION: Blue - Region Copy; White - Lab Copy for Return to Region; Pink - SMO Copy; Yellow - Lab Copy for Return to SMO

EPA Form 9110-2

SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS
*SEE REVERSE FOR PURPOSE CODE DEFINITIONS

359281

United States Environmental Protection Agency
Contract Laboratory Program

ganic Traffic Report & Chain of Custody Record

(For Organic CLP Analysis)

SAS No. (if applicable):

Case N: 25704

1. Project Code	Account Code	2. Region No.	Sampling Co.	4. Date Shipped	Carrier
		5	BVSPC	9-24-97	Federal Express

Regional Information: TGB102

Sampler (Name): Steve Mykvicka

Airbill Number: 5654191071

Non-Superfund Program

Sampler Signature: [signature]

Site Name: American Chemical Services

3. Purpose*

Lead: [ ] SF [X] PRP [ ] ST [ ] FED

Early Action: [ ] CLEM [ ] PA [ ] REM [ ] RI [ ] SI [ ] ESI

Long-Term Action: [ ] FS [X] RD [X] RA [ ] O&M [ ] NPLD

5. Ship To: Rollins Environmental Inc./ENCOTEC
3985 Research Park Drive
Ann Arbor, MI 48108
ATTN: Tom Marshall

City, State: Griffith, IN

Site Spill ID: J7

6. Matrix (Enter in Column A)
1. Surface Water
2. Ground Water
3. Leachate
4. Field QC
5. Soil/Sediment
6. Oil (High only)
7. Waste (High only)
8. Other (Specify in Column A)

7. Preservative (Enter in Column D)
1. HCl
2. HNO3
3. NaHSO4
4. H2SO4
5. Ice only
6. Other (Specify in Column D)
N. Not preserved

CLP Sample Numbers (from labels)	A Matrix (from Box 6) Other:	B Conc.: Low Med High	C Sample Type: Comp./ Grab	D Preservative (from Box 7) Other:	E RAS Analysis VOA	BNA	Pest/PCB	High only ARO/TOX	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/ Year/Time Sample Collection	I Corresponding CLP Inorganic Sample No.	J Sampler Initials	K Field QC Qualifier (B = Blank S = Spike D = Duplicate R = Rinsate PE = Perform. Eval. — = Not a QC Sample)
EWW01	2	L	G	1	X				5-129441, 2	ACS-EB01-201	9-23-97 1745	—	SRM	R
EWW01	2	L	G	5		X	X		5-129443, 4	↓	↓	—	SRM	R
EWW02	2	L	G	1	X				5-129473, 4	ACS-GW06-001	9-24-97 1110	—	SRM	—
EWW02	2	L	G	5		X	X		5-129475, 6	↓	↓	—	SRM	—
EWW03	2	L	G	1	X				5-129477, 8	ACS-GW07-001	9-24-97 1520	—	SRM	—
EWW03	2	L	G	5		X	X		5-129479, 80	↓	↓	—	SRM	—
EADX0	2	L	G	1	X				5-129481, 2	ACS-TB03-201	9-24-97 1550	—	SRM	B

Shipment for Case Complete? (Y/N): Y

Page 1 of 1

Sample(s) to be Used for Laboratory QC:

Additional Sampler Signatures:

Chain of Custody Seal Number(s): 153271, 153272

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[signature]	9-24-97 1630				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
		✓			
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks Is custody seal intact? Y/N/none	

A21-012-3 REV. 3/93

DISTRIBUTION: Blue - Region Copy; White - Lab Copy for Return to Region; Pink - SMO Copy; Yellow - Lab Copy for Return to SMO

EPA Form 9110-2

SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS
*SEE REVERSE FOR PURPOSE CODE DEFINITIONS

359283

EPA United States Environmental Protection Agency Contract Laboratory Program

ganic Traffic Report & Chain of Custody Record

(For Organic CLP Analysis)

SAS No. (if applicable):

Case N: 25704

1. Project Code	Account Code	2. Region No.	Sampling Co.	4. Date Shipped	Carrier
		5	BVSPC	10-1-97	Federal Express

Regional Information: TGB102

Sampler (Name): Steve Mitrick

Airbill Number: 5654191056

Non-Superfund Program

Sampler Signature: [signature]

Site Name: American Chemical Services

City, State: Griffith, IN

Site Spill ID: J7

3. Purpose*

Lead: [ ] SF [X] PRP [ ] ST [ ] FED

Early Action: [ ] CLEM [ ] PA [ ] REM [ ] RI [ ] SI [ ] ESI

Long-Term Action: [ ] FS [X] RD [X] RA [ ] O&M [ ] NPLD

5. Ship To: Rollins Environmental Inc. - ENCOTEC, 3985 Research Park Drive, Ann Arbor, MI 48108

ATTN: Tom Marshall

6. Matrix (Enter in Column A)
1. Surface Water
2. Ground Water
3. Leachate
4. Field QC
5. Soil/Sediment
6. Oil (High only)
7. Waste (High only)
8. Other (Specify in Column A)

7. Preservative (Enter in Column D)
1. HCl
2. HNO3
3. NaHSO4
4. H2SO4
5. Ice only
6. Other (Specify in Column D)
N. Not preserved

CLP Sample Numbers (from labels)	A Matrix (from Box 6) Other:	B Conc.: Low Med High	C Sample Type: Comp./ Grab	D Preservative (from Box 7) Other:	E RAS Analysis VOA	BNA	Pest/PCB	High only ARO/TOX	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/ Year/Time Sample Collection	I Corresponding CLP Inorganic Sample No.	J Sampler Initials	K Field QC Qualifier (B = Blank S = Spike D = Duplicate R = Rinsate PE = Perform. Eval. — = Not a QC Sample)
EAD22	2	L	G	1	X				5-129501 2	ACS-GW10-001	9-29-97 1710	—	SRM	—
EAD22	2	L	G	5		X	X		5-129503,4	↓		—		—
EAD23	2	L	G	1	X				5-129505,6	ACS-GW10-101		—		D
EAD23	2	L	G	5		X	X		5-129507,8	↓	↓	—	↓	D
EADP9	2	L	G	1	X				5-129550,1	ACS-GW11-001	10-1-97 0915	—	SRM	—
EADP9	2	L	G	5		X	X		5-129552,3	↓	↓	—	SRM	—
EADS3	2	L	G	1	X				5-129568,9	ACS-TB05-201	10-1-97 1415	—	SRM	B

Shipment for Case Complete? (Y/N): N

Page 1 of 1

Sample(s) to be Used for Laboratory QC:

Additional Sampler Signatures:

Chain of Custody Seal Number(s): 153275, 153276

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[signature]	10-1-97 1500				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks Is custody seal intact? Y/N/none	

A21-012-3 REV. 3/93

DISTRIBUTION: Blue - Region Copy; White - Lab Copy for Return to Region; Pink - SMO Copy; Yellow - Lab Copy for Return to SMO

EPA Form 9110-2

SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS
*SEE REVERSE FOR PURPOSE CODE DEFINITIONS

359287

EPA United States Environmental Protection Agency Contract Laboratory Program

ganic Traffic Report & Chain of Custody Record

(For Organic CLP Analysis)

SAS No. (if applicable):

Case N: 25104

1. Project Code	Account Code	2. Region No.: 5	Sampling Co.: BVSPC	4. Date Shipped: 10-1-97	Carrier: Federal Express
Regional Information: TGB102		Sampler (Name): Steve Mrkvicka		Airbill Number: 5654191093	
Non-Superfund Program		Sampler Signature: [signature]		5. Ship To: Rollins Environmental Inc.-ENCOTEC, 3985 Research Park Drive, Ann Arbor, MI 48108	
Site Name: American Chemical Services		3. Purpose* Lead: [ ] SF [X] PRP [ ] ST [ ] FED; Early Action: [ ] CLEM [ ] PA [ ] REM [ ] RI [ ] SI [ ] ESI; Long-Term Action: [ ] FS [X] RD [X] RA [ ] O&M [ ] NPLD		ATTN: Tom Marshall	
City, State: Griffith, IN	Site Spill ID: J7				

6. Matrix (Enter in Column A): 1. Surface Water 2. Ground Water 3. Leachate 4. Field QC 5. Soil/Sediment 6. Oil (High only) 7. Waste (High only) 8. Other (Specify in Column A)

7. Preservative (Enter in Column D): 1. HCl 2. HNO3 3. NaHSO4 4. H2SO4 5. Ice only 6. Other (Specify in Column D) N. Not preserved

CLP Sample Numbers (from labels)	A Matrix (from Box 6) Other:	B Conc.: Low Med High	C Sample Type: Comp./ Grab	D Preservative (from Box 7) Other:	E RAS Analysis VOA	BNA	Pest/PCB	High only ARO/TOX	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/ Year/Time Sample Collection	I Corresponding CLP Inorganic Sample No.	J Sampler Initials	K Field QC Qualifier (B = Blank S = Spike D = Duplicate R = Rinsate PE = Perform. Eval. — = Not a QC Sample)
EADQØ	2	L	G	1	X				5-129556,7	ACS-GW12-001	10-1-97 1115	—	SRM	—
EADQØ	2	L	G	5		X	X		5-129558,9	↓	↓	—	SRM	—
EADQ1	2	L	G	1	X				5-129562,3	ACS-EB02-201	10-1-97 1200	—	SRM	B
EADQ1	2	L	G	5		X	X		5-129564,5	↓	↓	—	SRM	B
EADS4	2	L	G	1	X				5-129570,1	ACS-TB06-201	10-1-97 1415	—	SRM	B

Shipment for Case Complete? (Y/N)	Page	Sample(s) to be Used for Laboratory QC	Additional Sampler Signatures	Chain of Custody Seal Number(s)
N	1 of 1			153277, 153278

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[signature]	10-1-97 1500				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks Is custody seal intact? Y/N/none	

A21-012-3 REV. 3/93

DISTRIBUTION: Blue - Region Copy; White - Lab Copy for Return to Region; Pink - SMO Copy; Yellow - Lab Copy for Return to SMO

EPA Form 9110-2

SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS
*SEE REVERSE FOR PURPOSE CODE DEFINITIONS

359288

ENVIRONMENTAL PROTECTION AGENCY
Offi Enforcement

REGION 5
77 West Ja n Boulevard
Chicago, nois 60604

CHAIN OF CUS DY RECORD

PROJ. NO.	PROJECT NAME
71670.600	American Chemical Services

SAMPLERS: *(Print Name and Sign)* Steve Mrkvicka

Activity Code:

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	Analyte: Total Metals	Cyanide				CRL No.	TAG NUMBERS Tag No.
SØ1	9-23	0930		X	ACS-GW01-001 (MS/MSD)	~~2~~ 4	2	2				97ZB15SØ1	5-129445,6; 59,60
SØ2	9-23	1010		X	ACS-GW02-001	2	1	1				97ZB15SØ2	5-129447,8
DØ1	9-23	1010		X	ACS-GW02-101	2	1	1				97ZB15DØ1	5-129449,50
SØ3	9-23	1140		X	ACS-GW03-001	2	1	1				97ZB15SØ3	5-129451,2
SØ4	9-23	1225		X	ACS-GW04-001	2	1	1				97ZB15SØ4	5-129453,4
SØ5	9-23	1555		X	ACS-GW05-001	2	1	1				97ZB15SØ5	5-129455,6
RØ1	9-23	1745		X	ACS-EB01-201	2	1	1				97ZB15RØ1	5-129457,8
SØ6	9-24	1140		X	ACS-GW06-001	2	1	1				97ZB15SØ6	5-129483,4
SØ7	9-24	1520		X	ACS-GW07-001	2	1	1				97ZB15SØ7	5-129485,6

Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*
[signature]	9-25-97 0755	[signature]
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*
Relinquished by: *(Signature)*	Date / Time	Received for Laboratory by: *(Signature)* / Date / Time
		[signature] 9/25/97 7:55 AM

Ship To:

ATTN:

Airbill Number

Chain of Custody Seal Numbers

Distribution: White - Accompanies Shipment; Pink - Coordinator Field Files; Yellow - Laboratory File

Printed on Recycled Paper/Printed with Soy Based Ink

5- 60572

ENVIRONMENTAL PROTECTION AGENCY
Offi[illegible] Enforcement

REGION 5
77 West Ja[illegible]n Boulevard
Chicago, [illegible]nois 60604

CHAIN OF CU[illegible]DY RECORD

PROJ. NO.: 71670.600
PROJECT NAME: American Chemical Services
Activity Code: TFA301
SAMPLERS: (Print Name and Sign) Steve Mrkvicka [signature]
SF 970661

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	Analyte: Total Metals	Cyanide					CRL No.	TAG NUMBERS Tag No.
S08	9-25	1005		X	ACS-GW08-001	2	1	1					97ZB15S08	5-129491,2
S09	9-25	1135		X	ACS-GW09-001	2	1	1					97ZB15S09	5-129497,8

Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[signature]	9-30-97 0845	[signature]
Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature) / Date / Time
		[signature] 9/30/97 8:45am

Ship To:
ATTN:
Airbill Number
Chain of Custody Seal Numbers

Distribution: White - Accompanies Shipment; Pink - Coordinator Field Files; Yellow - Laboratory File

Printed on Recycled Paper/Printed with Soy Based Ink

5-60573

ENVIRONMENTAL PROTECTION AGENCY
Offi Enforcement

REGION 5
77 West Ja n Boulevard
Chicago, nois 60604

CHAIN OF CU DY RECORD

PROJ. NO.: 71670.600
PROJECT NAME: American Chemical Services
Activity Code: TFA301
SAMPLERS: (Print Name and Sign) Steve Mikvicka

SF980001

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	Analyte: Total Metals	Cyanide					CRL No.	TAG NUMBERS / Tag No.
S1Ø	9-29	1710		X	ACS-GW10-001	2	1	1					97ZB15S1Ø	5-129509,10
DØ2	9-29	1710		X	ACS-GW10-101	2	1	1					97ZB15DØ2	5-129511,2
S11	10-1	0915		X	ACS-GW11-001	2	1	1					98ZBØ2S11	5-129554,5
S12	10-1	1115		X	ACS-GW12-001	2	1	1					98ZBØ2S12	5-129560,1
RØ2	10-1	1200		X	ACS-EBØ2-201	2	1	1					98ZBØ2RØ2	5-129566,7

Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[signature]	10-1-97 1557	[signature]
Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature) / Date / Time
		[signature] 10/1/97 1558

Ship To:

ATTN:

Airbill Number

Chain of Custody Seal Numbers

Distribution: White - Accompanies Shipment; Pink - Coordinator Field Files; Yellow - Laboratory File

Printed on Recycled Paper/Printed with Soy Based Ink

5-60574

ENVIRONMENTAL PROTECTION AGENCY
Offic Enforcement

REGION 5
77 West Ja n Boulevard
Chicago, ois 60604

CHAIN OF CUS DY RECORD

PROJ. NO.: 71670.600
PROJECT NAME: American Chemical Services
SAMPLERS: (Print Name and Sign) Steve Mrkvicka

Activity Code:

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	Analyte: Total Metals	Cyanide					CRL No.	TAG NUMBERS Tag No.
S13	10-2	1220		X	ACS-RW01-001	2	1	1					98ZB02S13	5-129517,8
S17	10-2	1135		X	ACS-RW05-001	2	1	1					98ZB02S17	5-129542,3
S15	10-2	1355		X	ACS-RW03-001	2	1	1					98ZB02S15	5-129530,1
S16	10-2	1330		X	ACS-RW04-001	2	1	1					98ZB02S16	5-129536,7
S18	10-2	1445		X	ACS-RW06-001	2	1	1					98ZB02S18	5-129548,9
S14	10-2	1515		X	ACS-RW02-001	2	1	1					98ZB02S14	5-129524,5

Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[signature]	10-3-97 0753	[signature]
Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature) / Date / Time
		[signature] 10/3/97 7:54 AM

Ship To:

ATTN:

Airbill Number

Chain of Custody Seal Numbers

Distribution: White - Accompanies Shipment; Pink - Coordinator Field Files; Yellow - Laboratory File

Printed on Recycled Paper/Printed with Soy-Based Ink

5-60575

Region 5 Transmittal Form

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE:

SUBJECT: Review of Region V CLP Data
Received for Review on Oct 20, 1997

FROM: Stephen L. Ostrodka, Chief (HSRL-5J) for Steve Ostrodka
Superfund Technical Support Section Richard L Bynit
11/4/97

TO: Data User: B+V

We have reviewed the data for the following case:

SITE NAME: American Chem SVCS (IN)

CASE NUMBER: 25704 SDG NUMBER: EAEA1

Number and Type of Samples: 15 (water)

Sample Numbers: EAEA0-1 EYB98-99 EYC00 EAZN6-8 EWW01-03
EADX0-2 EADZ1

Laboratory: Encoter Hrs. for Review: 13 + 1 wkr

Following are our findings:

the data is acceptable and useable with the qualifications described in the attached narrative.
Richard L Bynit

cc: Regional TPO
Cecilia Luckett MOORE
SM-5J

NARRATIVE

Contractor: Encotec/Rollin
Site: American Chem Svcs (IN)

Case: 25704
SDG: EAEA1

This case consists of 15 low concentration water samples EAEA0-1, EYB98-99, EYC00, EAZN6-8, EADX0-2, and EWW01-03. These samples were all collected on September 23-25, 1997 and were received by the laboratory on September 24-26, 1997. All samples were analyzed for volatiles, semivolatiles and pesticide/PCBs except for samples EADX0, EYB99, EYC00, and EADZ1 which were designated trip blanks and were analyzed only for volatiles. All samples were analyzed according to CLP Low Concentration Water (OLC02.1).

The VOA analysis were performed within the technical holding time of 14 days after sample was received, for preserved water samples; therefore, the results are acceptable. All semivolatile and pesticide/PCB samples were extracted within the 7 day holding time for water samples, and analyzed within the 40 day hold time; therefore, the results are acceptable.

The reviewer's narrative and data qualifiers are noted in the following pages.

Reviewed by: M. Kaminsky Lockheed-Martin ESAT
Date: November 3, 1997

NARRATIVE

Contractor: Encotec/Rollin Case: 25704
Site: American Chem Svcs (IN) SDG: EAEA1

1.HOLDING TIMES

This case consists of 15 low concentration water samples EAEA0-1, EYB98-99, EYC00, EAZN6-8, EADX0-2, and EWW01-03. These samples were all collected on September 23-25, 1997 and were received by the laboratory on September 24-26, 1997. All samples were analyzed for volatiles, semivolatiles and pesticide/PCBs except for samples EADX0, EYB99, EYC00, and EADZ1 which were analyzed only for volatiles. All samples were analyzed according to CLP Low Concentration Water (OLC02.1).

The VOA analysis were performed within the technical holding time of 14 days after sample was received, for preserved water samples; therefore, the results are acceptable. All semivolatile and pesticide/PCB samples were extracted within the 7 day holding time for water samples, and analyzed within the 40 day hold time; therefore, the results are acceptable.

2.GC/MS TUNING

All GC/MS tuning complied with the mass list and ion abundance criteria for BFB, and all samples were analyzed within the 12 hour periods for instrument performance checks.

All GC/MS tuning complied with the mass list and ion abundance criteria for DFTPP, and all samples were analyzed within the 12 hour periods for instrument performance checks. GC Resolution Check Mixes met the 60% resolution criteria. Endrin and DDT degradation checks using PEM MIX on DB-17 and DB-1701 columns were <20%; therefore, the results are acceptable. The Florisil Cartridge Check met QC criteria; therefore, the results are acceptable.

3.CALIBRATION

Initial and continuing calibrations of the volatile, semivolatile, and pesticide/PCBs were evaluated for the target compound list and outliers are recorded on the forms included as part of the narrative.

4.BLANKS

VOA:

The volatile holding blank VHBLK03 was found to contain neither TCL s or TICs. The volatile water blank VBLK04 was found to contain the common laboratory chemical methylene chloride. The presence of the common laboratory chemical in the samples as well as the volatile holding blank associated with blank VBLK04, are flagged as undetected (U) if the concentration in the sample is less than ten times the blank concentration. There were no TICs found in this blank. Volatile blank VBLK06 was found to contain the common laboratory chemicals methylene

NARRATIVE

Contractor: Encotec/Rollin Case: 25704
Site: American Chem Svcs (IN) SDG: EAEA1

chloride and acetone and the non common laboratory chemical 4-methyl-2-pentanone. The presence of the common laboratory chemicals in the samples associated with blank VBLK06, are flagged as undetected (U) if the concentration in the sample is less than ten times the blank concentration. The presence of the non common laboratory chemical in the samples associated with blank VBLK06, are flagged as undetected (U) if the concentration in the sample is less than five times the blank concentration. There were no TICs found in this blank. The volatile blank VBLK05 contained the non common laboratory cis-1,2-dichloroethene. The presence of the non common laboratory chemical in the samples associated with blank VBLK05, are flagged as undetected (U) if the concentration in the sample is less than five times the blank concentration. There were no TICs found in this blank. The volatile method blank summary (Form IV VOA) lists the samples associated with these blanks.

SVOA:

Semivolatile blanks SBLKJ4 and SBLKJ6 were found to contain no TCLs and no TICs. The semivolatile method blank summary (Form IV SVOA) lists the samples associated with these blanks.

PESTICIDE/PCB:

The pesticide blanks PBLKJ5 and PBLKJ7 were both found to be clean. The pesticide/PCB blank summary (Form IV PEST) lists the samples associated with this blank.

5.SYSTEM MONITORING COMPOUND

VOA:

The volatile water system monitoring compounds were within the QC limits for all samples; therefore the results are acceptable.

SVOA:

The semivolatile water surrogate compounds were within the QC limits for all samples, therefore all results are acceptable.

PESTICIDE/PCB:

The pesticide surrogate compounds were out high in samples EAZN8, EAZN8RE, EWW03, and EWW03RE. Therefore, all positive detects in the above mentioned samples are considered estimated (J) and non detects are not qualified.

6. LABORATORY CONTROL SAMPLE

VOA:

All recoveries for the volatile water sample analytes were within QC limits; therefore, the results are acceptable.

Reviewed by: M. Kaminsky Lockheed-Martin ESAT
Date: November 3, 1997

NARRATIVE

Contractor: Encotec/Rollin Case: 25704
Site: American Chem Svcs (IN) SDG: EAEA1

SVOA:

All recoveries for the semi-volatile water sample analytes were within QC limits; therefore, the results are acceptable.

PESTICIDE/PCB:

All recoveries for the pesticide/PCB water sample analytes were within QC limits; therefore, the results are acceptable.

7.FIELD BLANKS AND FIELD DUPLICATES

Samples EADX0, EYB99, EYC00, and EADZ1 which were designated as trip blanks on the COC. Samples EADX0 and EYC00 were found to contain neither TCLs or TICs. Samples EADZ1 and EYB99 each contained one TCL and no TICs.

8.INTERNAL STANDARDS

VOA:

No problems were reported.

SVOA:

No problems were reported.

9.COMPOUND IDENTIFICATION

After reviewing the mass spectra and chromatograms it appears that all VOA, SVOA, and pesticide/PCB compounds were properly identified.

10.COMPOUND QUANTITATION AND REPORTED DETECTION LIMITS

All CRQLs were properly reported and no dilutions were performed. All target compounds were properly reported.

11.SYSTEM PERFORMANCE

GC/MS and pesticide baselines indicated acceptable performance.

12.ADDITIONAL INFORMATION

In volatile sample EAZN8 chloroethane and benzene exceeded the instrument's calibration range; the results from sample EAZN8DL should be considered the final concentration for these anayltes. In volatile sample EWW03 chloroethane exceeded the instrument's calibration range; the results from sample EWW03DL should be considered the final concentration for this analytes. In semi volatile sample EAZN8 bis (2-chloroethyl)ether exceeded the instrument's calibration range; the results from sample EAZN8DL should be considered the final concentration for this analytes.

Reviewed by: M. Kaminsky Lockheed-Martin ESAT
Date: November 3, 1997

CALIBRATION OUTLIERS
LOW CONCENTRATION WATER VOLATILE TCL COMPOUNDS
(Page 1 of 1)

CASE\SAS#: 25704
COLUMN: DB624
HEATED PURGE (Y/N): N

LABORATORY: Envirotech
SITENAME: American Chem

Instrument# 5971-007		Initial Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.		
Date/Time:		9/29 1201			10/03 1015											
	#	rf	%rsd	*	rf	%d	*	rf	%d	*	rf	%d	*	rf	%d	*
Chloromethane	0.01	0473			0349	26.2	J									
Bromomethane	0.10															
Vinyl chloride	0.10															
Chloroethane	0.01															
Methylene chloride	0.01	0590	33.2	J												
Acetone	0.01															
Carbon disulfide	0.01															
1,1-Dichloroethene	0.10															
1,1-Dichloroethane	0.20															
cis-1,2-Dichloroethene	0.10															
trans-1,2-Dichloroethene	0.10															
Chloroform	0.20															
1,2-Dichloroethane	0.10															
2-Butanone	0.01	0049			0036	26.3	J									
Bromochloromethane	0.10															
1,1,1-Trichloroethane	0.10															
Carbon tetrachloride	0.10															
Bromodichloromethane	0.20															
1,2-Dichloropropane	0.01															
cis-1,3-Dichloropropene	0.20															
Trichloroethene	0.30															
Dibromochloromethane	0.10															
1,1,2-Trichloroethane	0.10															
Benzene	0.50															
tran-1,3-Dichloropropene	0.10															
Bromoform	0.10															
4-Methyl-2-pentanone	0.01															
2-Hexanone	0.01															
Tetrachloroethene	0.20															
1,1,2,2-Tetrachloroethane	0.50	0927			0695	25.1	J									
1,2-Dibromoethane	0.10															
Toluene	0.40															
Chlorobenzene	0.50															
Ethylbenzene	0.10															
Styrene	0.30															
Xylene (total)	0.30															
1,2-Dibromo-3-chloropropane	0.10															
1,3-Dichlorobenzene *	0.60															
1,4-Dichlorobenzene *	0.50															
1,2-Dichlorobenzene	0.40															
Bromofluorobenzene	0.40															
*																

Samples affected:
UBLKOY
EAEA0,1
EYB98
EYC00
EAZN7,8

Reviewer's Init/Date: 10-27-97 MK

J/R = All positive results are estimated "J" and non-detected results are unusable "R"

* = These flags should be applied to the analytes on the sample data sheets.
# = Minimum Relative Response Factor

CALIBRATION OUTLIERS
LOW CONCENTRATION WATER VOLATILE TCL COMPOUNDS
(Page 1 of 1)

CASE\SAS#: 25704
COLUMN: DB624
HEATED PURGE (Y/N): N

LABORATORY: Cincinnati
SITENAME: American Chem

Instrument# 5971-007		Initial Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.		
Date/Time:		10/03 0923			10/03 1070			10/03 2104								
	#	rf	%rsd	*	rf	%d	*	rf	%d	*	rf	%d	*	rf	%d	*
Chloromethane	0.01															
Bromomethane	0.10															
Vinyl chloride	0.10															
Chloroethane	0.01															
Methylene chloride	0.01	0559	33.2	J	0499			0849	51.8	J						
Acetone	0.01															
Carbon disulfide	0.01															
1,1-Dichloroethene	0.10															
1,1-Dichloroethane	0.20															
cis-1,2-Dichloroethene	0.10															
trans-1,2-Dichloroethene	0.10															
Chloroform	0.20															
1,2-Dichloroethane	0.10															
2-Butanone	0.01															
Bromochloromethane	0.10															
1,1,1-Trichloroethane	0.10															
Carbon tetrachloride	0.10															
Bromodichloromethane	0.20															
1,2-Dichloropropane	0.01															
cis-1,3-Dichloropropene	0.20															
Trichloroethene	0.30															
Dibromochloromethane	0.10															
1,1,2-Trichloroethane	0.10															
Benzene	0.50															
tran-1,3-Dichloropropene	0.10															
Bromoform	0.10															
4-Methyl-2-pentanone	0.01															
2-Hexanone	0.01															
Tetrachloroethene	0.20															
1,1,2,2-Tetrachloroethane	0.50															
1,2-Dibromoethane	0.10															
Toluene	0.40															
Chlorobenzene	0.50															
Ethylbenzene	0.10															
Styrene	0.30															
Xylene (total)	0.30															
1,2-Dibromo-3-chloropropane	0.10															
1,3-Dichlorobenzene	0.60															
1,4-Dichlorobenzene *	0.50															
1,2-Dichlorobenzene	0.40															
Bromofluorobenzene *	0.40															

Samples affected:		
	VBLK05	VBLK06
	EYB99	EAZN8DL
	EL0001-3	EWW03DL
	EADX1,2	EADK0
	EADZ1	EAZN6
		VLCS03
		VHBLK03

Reviewer's Init/Date: MK 10-27-97

J/R = All positive results are estimated "J" and non-detected results are unusable "R"

* = These flags should be applied to the analytes on the sample data sheets.
# = Minimum Relative Response Factor

CALIBRATION OUTLIER
LOW CONCENTRATION WATER SEMIVOLATILE TCL COMPOUNDS
(Page 1 of 2)

CASE\SAS#: 25704
COLUMN:

LABORATORY: Enactic
SITE NAME: [illegible]

Instrument# 5971024		Initial Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.		
Date/Time:		10/3 1052			10/3 1559			10/04 1237			10/05 0833					
	#	rf	%rsd	*	rf	%d	*	rf	%d	*	rf	%d	*	rf	%d	*
Phenol	0.80															
bis(2-chloroethyl) Ether	0.70															
2-Chlorophenol	0.70															
2-Methylphenol	0.70															
2,2'-Oxybis(1-chl-propane)	0.01															
4-Methylphenol	0.60															
N-nitroso-di-n-propylamine	0.50															
Hexachloroethane	0.30															
Nitrobenzene	0.20															
Isophorone	0.40															
2-Nitrophenol	0.10															
2,4-Dimethylphenol	0.20															
bis-(2-chloroethoxyl)methane	0.30															
2,4-Dichlorophenol	0.20															
1,2,4-Trichlorobenzene	0.20															
Naphthalene	0.70															
4-Chloroaniline	0.01															
Hexachlorobutadiene	0.01															
4-Chloro-3-methylphenol	0.20															
2-Methylnaphthalene	0.40															
Hexachlorocyclopentadiene	0.01															
2,4,6-Trichlorophenol	0.20															
2,4,5-Trichlorophenol	0.20															
2-Chloronaphthalene	0.80															
2-Nitroaniline	0.01															
Dimethyl phthlate	0.01															
Acenaphthylene	1.30															
2,6-Dinitrotoluene	0.20															
3-Nitroaniline	0.01															
Acenaphthene	0.30															
2,4-Dinitrophenol	0.01	0167						0210	25.9	J						
4-Nitrophenol	0.01															
Dibenzofuran	0.80															
2,4-Dinitrotoluene	0.20															

Affected samples:

	SBLKJ4	SBLKJ6	EWW03
	EAEA1	SLCJ65	EADX1,2
	EYB98	EAZN6-8	EAZN8DL
		EAEA0	
		EWW01,02	

Reviewer's Init/Date: MK 10-27-97

J/R = All positive results are estimated "J" and non-detected results are unusable "R"

* = These flags should be applied to the analytes on the sample data sheets.
\# = Minimum Relative Response Factor

CALIBRATION OUTLIER
LOW CONCENTRATION WATER SEMIVOLATILE TCL COMPOUNDS
(Page 2 of 2)

CASE\SAS#: 25704
COLUMN:

LABORATORY: Enecotin
SITE NAME: Ausimont Senna

Instrument#		Initial Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.		
Date/Time:		10/3 1052			10/3 1557			10/04 1232			10/05 0833					
	#	rf	%rsd	*	rf	%d	*	rf	%d	*	rf	%d	*	rf	%d	*
Diethylphthalate	0.01															
4-Chlorophenyl-phenylether	0.40															
Fluorene	0.90															
4-Nitroaniline	0.01	0265						0340	27.9	J						
4,6-Dinitro-2-methylphenol	0.01															
N-nitrosodiphenylamine	0.01															
4-Bromophenyl-phenylether	0.10															
Hexachlorobenzene	0.10															
Pentachlorophenol	0.05															
Phenanthrene	0.70															
Anthracene	0.70															
Di-n-butylphthalate	0.01															
Fluoranthene	0.60															
Pyrene	0.60															
Butylbenzylphthalate	0.01															
3,3'-Dichlorobenzidine	0.01	0242									0126	48.0	J			
Benzo(a)anthracene	0.80															
Chrysene	0.70															
bis(2-Ethylhexyl)phthalate	0.01	1150									0850	261	J			
Di-n-octyl phthalate	0.01	2084									1521	270	J			
Benzo(b)fluoranthene	0.70															
Benzo(k)fluoranthene	0.70															
Benzo(a)pyrene	0.70															
Indeno(1,2,3-cd)pyrene	0.50															
Dibenz(a,h)anthrancene	0.40															
Benzo(g,h,i)perylene	0.50															
Nitrobenzene-d5	0.01															
2-Fluorobiphenyl	0.70															
Terphenyl-d14	0.50															
Phenol-d5	0.80															
2-Fluorophenol	0.60															
2,4,6-Tribromophenol	0.01															

Reviewer's Init/Date: MK 10/27/97

J/R = All positive results are estimated "J" and non-detected results are unusable "R"

* = These flags should be applied to the analytes on the sample data sheets.
# = Minimum Relative Response Factor

CALIBRATION OUTLIER
Pesticide/PCB TCL
(Page 1 of 1)

CASE/SAS #: 25704
COLUMN: DB1701

LABORATORY: Enco
SITE NAME: Omega

Instrument Number 3400C	Initial Cal.		Cont. Cal.		Cont. Cal.		Cont. Cal.		Cont. Cal.	
Date	9/09		9/30		10/01					
Time	0848		1439		2109					
	%RSD	*	%D	*	%D	*	%D	*	%D	*
alpha-BHC										
beta-BHC										
delta-BHC										
gamma-BHC										
Heptachlor										
Aldrin										
Heptachlor Epoxide										
Endosulfan I										
Dieldrin										
4,4'-DDE										
Endrin										
Endosulfan II										
4,4'-DDD										
Endosulfan Sulfate										
4,4'-DDT										
Methoxychlor										
Endrin Ketone										
Endrin Aldehyde										
alpha-Chlordane										
gamma-Chlordane										
Aroicor 1016										
Aroclor 1221										
Aroclor 1232										
Aroicor 1242										
Aroclor 1248										
Aroclor 1254										
Aroclor 1260										

Affected Samples:

	PBLKJ5, J7	EA2N8RE		
	PLCS64	EADX2		
	EAEA1,0	EYB98		
	EAZN8,6,7	EWW03RE		
	EWW01,2,3			
	EADX1			

* These flags should be applied to the analytes on the sample data sheets.
J/R = All positive results are estimated "J" and non-detected results are unusable "R".

Reviewer's Init/Date: MK 10-28-97

Pesticide/PCB TCL
(Page 1 of 1)

CASE/SAS #: 25704
COLUMN: DB17

LABORATORY: Cerwin
SITE NAME: Ossmen

Instrument Number 34000	Initial Cal.		Cont. Cal.		Cont. Cal.		Cont. Cal.		Cont. Cal.	
Date	9/09		9/30		10/01					
Time	0848		1439		2109					
	%RSD	*	%D	*	%D	*	%D	*	%D	*
alpha-BHC										
beta-BHC										
delta-BHC										
gamma-BHC										
Heptachlor										
Aldrin										
Heptachlor Epoxide										
Endosulfan I										
Dieldrin										
4,4'-DDE										
Endrin										
Endosulfan II										
4,4'-DDD										
Endosulfan Sulfate										
4,4'-DDT										
Methoxychlor										
Endrin Ketone										
Endrin Aldehyde										
alpha-Chlordane										
gamma-Chlordane										
Aroicor 1016										
Aroclor 1221										
Aroclor 1232										
Aroicor 1242										
Aroclor 1248										
Aroclor 1254										
Aroclor 1260										

Affected Samples:

	PBLKJ5-7	EAZN8RE		
	PLCS64	EADX2		
	EAEA0,1	EYB98		
	EAZN6-8	EWW03RE		
	EWW01-3			
	EADX1			

* These flags should be applied to the analytes on the sample data sheets.
J/R = All positive results are estimated "J" and non-detected results are unusable "R".

Reviewer's Init/Date: MK 10-28-91

ORGANIC DATA QUALIFIER DEFINITIONS

For the purpose of defining the flagging nomenclature used in this document, the following code letters and associated definitions are provided:

VALUE - when/if the result of a value is greater than or equal to the Contract Required Quantitation Limit (CRQL).

U Indicates that the compound was analyzed for, but not detected. The sample quantitation limit corrected for dilution and percent moisture is reported.

J Indicates an estimated value. This flag is used either when estimating a concentration for a tentatively identified compound or when the data indicates the presence of a compound where the result is less than the sample quantitation limit, but greater than zero. The flag is also used to indicate a reported result having an associated QC problem.

R Indicates the data are unusable. (NOTE: The analyte may or may not be present.)

N Indicates presumptive evidence of a compound. This flag is only used for a tentatively identified compound, where the identification is based on a mass spectral library search.

P Indicates a pesticide/Aroclor target analyte when there is greater than 25% difference for the detected concentrations between the two GC columns. The lower of the two results is reported.

C Indicates pesticide results that have been confirmed by GC/MS.

B Indicates the analyte is detected in the associated blank as well as in the sample.

E Indicates compounds whose concentrations exceed the calibration range of the instrument.

D Indicates an identified compound in an analysis has been diluted. This flag alerts the data user to any differences between the concentrations reported in the two analysis.

A Indicates tentatively identified compounds that are suspected to be aldol condensation products.

G Indicates the TCLP Matrix Spike Recovery was greater than the upper limit of the analytical method.

L Indicates the TCLP Matrix Spike Recovery was less than the lower limit of the analytical method.

T Indicates the analyte is found in the associated TCLP extraction blank as well as in the sample.

X,Y,Z are reserved for laboratory defined flags.

EPA United States Environmental Protection Agency
Contract Laboratory Program

Organic Traffic Report & Chain of Custody Record
(For Organic CLP Analysis)

SAS No. (if applicable):
Case No.: [illegible]

1. Matrix (Enter in Column A)
1. Surface Water
2. Ground Water
3. Leachate
4. Field QC
5. Soil/Sediment
6. Oil (High only)
7. Waste (High only)
8. Other (Specify in Column A)

2. Preservative (Enter in Column D)
1. HCl
2. HNO3
3. NaHSO4
4. H2SO4
5. Ice only
6. Other (Specify in Column D)
N. Not preserved

2. Region No.: 5
Sampling Co.: ENSPC
4. Date Shipped: 9-24-97
Carrier: Federal Express
6. Date Received -- Received by: [signature] 9/25/97
Sampler (Name): Steve Mokricka
Airbill Number: 5154191071
Laboratory Contract Number: 68-D6-0061
Unit Price: $59.50
Sampler Signature: [signature]
3. Purpose*
Lead: SF / PRP / ST / FED
Early Action: CLEM / PA / REM / RI / SI / ESI
Long-Term Action: FS / RD / RA / O&M / NPLD
5. Ship To: Rollins Environmental Inc./ENCO
3985 Research Park Drive
Ann Arbor, MI 48108
ATTN: Tom Marshall
7. Transfer to:
Date Received:
Received by:
Contract Number:
Price:

CLP Sample Numbers (from labels)	A Matrix (from Box 1) Other:	B Conc.: Low Med High	C Sample Type: Comp./Grab	D Preservative (from Box 2) Other:	E RAS Analysis VOA	BNA	Pest/PCB	High only ARO/TOX	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Corresponding CLP Inorganic Sample No.	J Sampler Initials	K High Phases Solids	Water-Miscible Liq.	Water-Immis. Liq.
EWW01	2	L	G	1	X				5-129441,2	ACS-EB01-201	9-23-97 1745	—	SRM			
EWW01	2	L	G	5		X	X		5-129443,4	↓	↓	—	SRM			
EWW02	2	L	G	1	X				5-129473,4	ACS-GW06-001	9-24-97 1110	—	SRM			
EWW02	2	L	G	5		X	X		5-129475,6	↓	↓	—	SRM			
EWW03	2	L	G	1	X				5-129477,8	ACS-GW07-001	9-24-97 1520	—	SRM			
EWW03	2	L	G	5		X	X		5-129479,80	↓	↓	—	SRM			
EAPX0	2	L	G	1	X				5-129481,2	ACS-TB03-201	9-24-97 1550	—	SRM			

First Sample: EAPX0
Last Sample: EWW03

Shipment for Case Complete? (Y/N): Y
Page: 1 of 1
Sample(s) to be Used for Laboratory QC:
Additional Sampler Signatures: SDG:EAEA1 TAM
Chain of Custody Seal Number(s): [illegible]

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[signature]	9-17 1130			9/25/97	
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks Is custody seal intact? Y/N/none	
	9/25/97	[signature]			

A21-012-4 REV. 3/93

DISTRIBUTION: Blue - Region Copy; White - Lab Copy for Return to Region; Pink - SMO Copy; Yellow - Lab Copy for Return to SMO

EPA Form 9110-2

SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS
*SEE REVERSE FOR PURPOSE CODE DEFINITIONS

359283

EPA United States Environmental Protection Agency Contract Laboratory Program

Organic Traffic Report & Chain of Custody Record
(For Organic CLP Analysis)

SAS No. (if applicable):
Case No.: 25704

1. Matrix (Enter in Column A)
1. Surface Water
2. Ground Water
3. Leachate
4. Field QC
5. Soil/Sediment
6. Oil (High only)
7. Waste (High only)
8. Other (Specify in Column A)

2. Preservative (Enter in Column D)
1. HCl
2. HNO3
3. NaHSO4
4. H2SO4
5. Ice only
6. Other (Specify in Column D)
N. Not preserved

2. Region No.: 5
Sampling Co.: BVSPC
4. Date Shipped: 9-23-97
Carrier: Federal Express
6. Date Received -- Received by: 9/25/97
Sampler (Name): Steve Mckyicka
Airbill Number: 5654191045
Laboratory Contract Number: 68-D6-0061
Unit Price: 459.50
Sampler Signature:
5. Ship To: Rollins Environmental, Inc./ENCO, 3985 Research Park Drive, Ann Arbor, MI 48108, ATTN: Tom Marshall
7. Transfer to:
Date Received:
Received by:
Contract Number:
Price:

3. Purpose*
Lead: SF, [X] PRP, ST, FED
Early Action: CLEM, PA, REM, RI, SI, ESI
Long-Term Action: FS, [X] RD, [X] RA, O&M, NPLD

CLP Sample Numbers (from labels)	A Matrix (from Box 1) Other:	B Conc.: Low Med High	C Sample Type: Comp./Grab	D Preservative (from Box 2) Other:	E RAS Analysis VOA	BNA	Pest/PCB	High only ARO/TOX	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Corresponding CLP Inorganic Sample No.	J Sampler Initials	K High Phases Solids	Water-Miscible Liq.	Water-Immis. Liq.
EAZN8	2	L	G	1	X				5-129406-11	ACS-GW01-001	9-23-97 0930	—	SRM			
EAZN8	2	L	G	5		X	X		5-129412-15	↓	↓	—	↓			
EAZN6	2	L	G	1	X				5-129416,7	ACS-GW02-001	9-23-97 1010	—				
EAZN6	2	L	G	5		X	X		5-129418,9	↓	↓	—				
EAZN7	2	L	G	1	X				5-129420,1	ACS-GW02-101	↓	—	↓			
EAZN7	2	L	G	5		X	X		5-129422,3	↓	9-23-97 1010	—	SRM			
EAEA0	2	L	G	1	X				5-129424,5	ACS-GW03-001	9-23-97 1140	—	SRM			
EAEA0	2	L	G	5		X	X		5-129426,7	↓	↓	—	SRM			
EYB99	2	L	G	1	X				5-129436,7	ACS-TB01-001	9-23-97 1620	—	SRM			

Shipment for Case Complete? (Y/N): N
Page 1 of 1
Sample(s) to be Used for Laboratory QC: EAZN8
Additional Sampler Signatures: First Sample: EAEA0 Last Sample EAZN8
Chain of Custody Seal Number(s): 153265 / 153266

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
	9-23-97 1730			SDG:	EAEA1
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
					9/25/97
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks Is custody seal intact? Y/N/none	
	9/25/97				

A21-012-4 REV. 3/93

DISTRIBUTION: Blue - Region Copy; White - Lab Copy for Return to Region; Pink - SMO Copy; Yellow - Lab Copy for Return to SMO

EPA Form 9110-2

SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS
*SEE REVERSE FOR PURPOSE CODE DEFINITIONS

359281

EPA United States Environmental Protection Agency Contract Laboratory Program

Organic Traffic Report & Chain of Custody Record
(For Organic CLP Analysis)

SAS No. (if applicable):
Case No.: 25704

1. Matrix (Enter in Column A)
1. Surface Water
2. Ground Water
3. Leachate
4. Field QC
5. Soil/Sediment
6. Oil (High only)
7. Waste (High only)
8. Other (Specify in Column A)

2. Preservative (Enter in Column D)
1. HCl
2. HNO3
3. NaHSO4
4. H2SO4
5. Ice only
6. Other (Specify in Column D)
N. Not preserved

2. Region No.: 5
Sampling Co.: BVSPC
4. Date Shipped: 9-23-97
Carrier: Federal Express
6. Date Received -- Received by: 9/24/97
Sampler (Name): Steve Mikvicka
Airbill Number: 5654191045
Laboratory Contract Number: (68-D6-0006)
Unit Price: 459.50
Sampler Signature:
5. Ship To: Rollins Environmental, Inc./ENCO
3985 Research Park Drive
Ann Arbor, MI 48108
ATTN: Tom Marshall
7. Transfer to:
Date Received
Received by
Contract Number
Price

3. Purpose*
Lead: SF, PRP, ST, FED
Early Action: CLEM, PA, REM, RI, SI, ESI
Long-Term Action: FS, RD, RA, O&M, NPLD

CLP Sample Numbers (from labels)	A Matrix (from Box 1) Other:	B Conc.: Low Med High	C Sample Type: Comp./Grab	D Preservative (from Box 2) Other:	E RAS Analysis VOA	BNA	Pest/PCB	High only ARO/TOX	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Corresponding CLP Inorganic Sample No.	J Sampler Initials	K High Phases Solids	Water-Miscible Liq.	Water-Immis. Liq.
EAEA1	2	L	G	1	X				5-129428,9	ACS-GW04-001	9-23-97 1225	—	SRM			
EAEA1	2	L	G	5		X	X		5-129430,1	↓	↓	—	SRM			
EYB98	2	L	G	1	X				5-129432,3	ACS-GW05-001	9-23-97 1555	—	SRM			
EYB98	2	L	G	5		X	X		5-129434,5	↓	↓	—	SRM			
~~EYB94~~ EYC00	2	L	G	1	X				5-129439,40	ACS-TB02-201	9-23-97 1650	—	SRM			

First Sample: EAEA1
Last Sample: EYC00
SDG: EAEA1

Shipment for Case Complete? (Y/N): N
Page 1 of 1
Sample(s) to be Used for Laboratory QC:
Additional Sampler Signatures: TMM 9/25/97, 1530
Chain of Custody Seal Number(s):

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time 9/24/97 9:50	Received for Laboratory by: (Signature)	Date / Time	Remarks Is custody seal intact? Y/N/none	

A21-012-4 REV. 3/93

DISTRIBUTION: Blue - Region Copy; White - Lab Copy for Return to Region; Pink - SMO Copy; Yellow - Lab Copy for Return to SMO

EPA Form 9110-2

SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS
*SEE REVERSE FOR PURPOSE CODE DEFINITIONS

359282

EPA United States Environmental Protection Agency Contract Laboratory Program

Organic Traffic Report & Chain of Custody Record
(For Organic CLP Analysis)

SAS No. (if applicable):
Case No.: [illegible]

1. Matrix (Enter in Column A)
   1. Surface Water
   2. Ground Water
   3. Leachate
   4. Field QC
   5. Soil/Sediment
   6. Oil (High only)
   7. Waste (High only)
   8. Other (Specify in Column A)

2. Preservative (Enter in Column D)
   1. HCl
   2. HNO3
   3. NaHSO4
   4. H2SO4
   5. Ice only
   6. Other (Specify in Column D)
   N. Not preserved

2. Region No.: 5
Sampling Co.: BVSPC
4. Date Shipped: 1-25-97
Carrier: Federal Express
6. Date Received: [illegible] Received by: [illegible] 1/27/97
Sampler (Name): Steve Mikvicka
Airbill Number: 5654191082
Laboratory Contract Number: 68-D6-0061
Unit Price: 459.50
Sampler Signature: [illegible]
5. Ship To: Rollins Environmental, Inc./ENCOTI, 3185 Research Park Drive, Ann Arbor, MI 48108, ATTN: Tom Marshall
7. Transfer to:
Date Received:
Received by:
Contract Number:
Price:

3. Purpose*
Lead: [ ] SF [X] PRP [ ] ST [ ] FED
Early Action: [ ] CLEM [ ] PA [ ] REM [ ] RI [ ] SI [ ] ESI
Long-Term Action: [ ] FS [X] RD [X] RA [ ] O&M [ ] NPLD

CLP Sample Numbers (from labels)	A Matrix (from Box 1) / Other:	B Conc.: Low Med High	C Sample Type: Comp./ Grab	D Preservative (from Box 2) / Other:	E RAS Analysis: VOA	BNA	Pest/PCB	High only ARO/TOX	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/ Year/Time Sample Collection	I Corresponding CLP Inorganic Sample No.	J Sampler Initials	K High Phases: Solids	Water-Miscible Liq.	Water-Immis. Liq.
FADX1	2	L	G	1	X				5-129497,8	ACS-GWCB-001	1-25-97 1605	—	SRM			
FADX1	2	L	G	5		X	X		5-129498,90	↓	↓	—	SRM			
FADX2	2	L	G	1	X				5-129495,4	ACS-GW09-001	1-25-97 1625	—	SRM			
FADX2	2	L	G	5		X	X		5-129495,6	↓	↓	—	SRM			
FADB1	2	L	G	1	X				5-129499,500	ACS-TB04-201	1-25-97 1625	—	SRM			

Shipment for Case Complete? (Y/N): Y
Page 1 of 1
Sample(s) to be Used for Laboratory QC:
Additional Sampler Signatures:
Chain of Custody Seal Number(s): 153273, 153274

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[illegible]	1-27-97 1700				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks: Is custody seal intact? Y/N/none	
	9/26/97 9:45	[illegible]			

A21-012-4 REV. 3/93

DISTRIBUTION: Blue - Region Copy; White - Lab Copy for Return to Region; Pink - SMO Copy; Yellow - Lab Copy for Return to SMO

EPA Form 9110-2

SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS
*SEE REVERSE FOR PURPOSE CODE DEFINITIONS

359286

SDG NARRATIVE
Client Name: US EPA
Project Number: 75102
CASE Number: 25704
Sample Delivery Group: EAEA1
Contract Number: 68-D6-0061
Batch Number(s): 100006476, 100006520, 100006544
Narrative Date: October 9, 1997
Samples: EAEA1, EYB98, EYC00, EAZN8, EAZN6, EAZN7, EAEA0, EYB99; EWW01, EWW02, EWW03, EADX0, EADX1, EADX2, EADZ1

RECEIVED
20
US EPA CENTRAL REGIONAL LAB.
536 S. CLARK ST.
CHICAGO, ILLINOIS 60605

A total of fifteen samples were received by LES (ENCOTEC) on September 24 through September 26, 1997, and was scheduled for Organics Analysis. Please refer to the following table for vital information that pertains to this case.

Table 1.0

SDG #: EAEA1

	SAMPLE ANALYZED			
	Actual Samples	QC Samples	Re-Run Samples	Total Billable Analyses
Volatile Analyses	15	0	2	17
Semivolatile Analyses	11	0	1	12
Pesticide/PCB Analyses	11	0	2	13

Total Analyses: 12 Full + 5 VOA + 1 Pest/PCB

This Deliverables Package is assembled in accordance with instructions in Section B, OLC02.1 revision of the Contract Laboratory Program - Statement of Work. A copy of this deliverable has been distributed to SMO and to Region V.

The following is a detailed description of quality control, shipment, and/or analytical problems that were encountered in the processing of these samples.

Sample Login

ENCOTEC received fifteen samples from Federal Express on September 24, 1997 through September 26, 1997. Standard Chain of Custody procedures were followed. The sample was stored at 4°C and/or chemically preserved as required by EPA protocol. The sample was scheduled for Full Organic Analysis.

Sample Analysis - Volatile

Sample analysis was performed without incident and within holding times. Chain of custody was maintained, and samples were analyzed according to EPA SOW OLC02.1. Quality control results are summarized as follows:

- Analyses of surrogates were performed on all samples; please see FORM II LCV for results.

- The method blanks contained the following target analytes: Methylene Chloride, Acetone, and 4-Methyl-2-pentanone near or below the CRQL. No Tentatively Identified Compounds (TICs) were detected. Please see method blank Forms I LCV-TIC for results.

- A Laboratory control sample was performed with this SDG. Please see Form III LCV for results.

- All EICP areas and retention times were within QA/QC. Please see FORM VIII LCV for results.

Summary

The sample revealed multiple positively detected Target Compounds. Samples EAZN8 and EWW03 required reanalysis at secondary dilutions due to concentrations of detected analytes exceeding the linear range established by the calibration standards. No Tentatively Identified Compounds were detected in the sample. Please see FORM's I LCV for results.

Sample Extraction

The samples were continuous liquid-liquid extracted for Semivolatile analysis on September 24, 1997 and September 29, 1997. The samples were separatory funnel extracted for Pesticide/PCB

analysis on September 26, 1997 and September 29, 1997. All extracts were processed according to CLP protocol without incident. Final extracts were given to the GC/MS and GC groups on September 27, 1997 and September 30, 1997.

Sample Analysis - Semivolatile

Sample analysis was performed without incident and within holding times. Sample Chain of custody was maintained, and samples were analyzed according to EPA SOW OLC02.1. Quality control results are summarized as follows:

- Analyses of surrogates were performed on all samples. Please see FORM II LCSV for results.

- The method blanks did not reveal any target analytes. No Tentatively Identified Compounds (TICs) were detected. Please see method blank FORM's I LCSV-1, LCSV-2 and LCSV-TIC for results.

- A Laboratory Control Sample (LCS) was analyzed with this SDG. Please see Form III LCSV for results.

- EICP areas and retention times were within QA/QC windows. Please see FORM's VIII LCSV-1 and LCSV-2 for results.

Summary

The sample revealed multiple positively detected Target compounds. Sample EAZN8 required reanalysis at a secondary dilution due to concentrations of detected analytes exceeding the linear range established by the calibration standards. Several TICs were detected in the samples. Please see FORM's I LCSV-1, LCSV-2, and LCSV-TIC for results.

Sample Analysis - Pesticide/PCB

Sample analysis was performed within holding times without incident. Chain of custody was maintained, and samples were analyzed according to EPA SOW OLC02.1. Quality control results are summarized as follows:

- Analyses of surrogates were performed on all samples; please see FORM II LCP for results.

- The method blanks did not contain any target analytes at or above the CRQL.

- A Laboratory Control Sample was analyzed with this SDG. Please see FORM III LCP for results.

Summary

Several target analytes were found in the sample above the CRQL. Samples EAZN8 and EWW03 required reanalysis to verify matrix interferences that resulted in surrogate recovery outliers. The sample reanalyses revealed the same recovery outliers. Please see all FORM I LCP for results.

Any technical questions regarding the data present in this deliverable should be addressed to the individual whose name appears at the end of this case narrative. Any manual integrations/compound identifications were done so on account the automatic software either failing to properly identify/quantitate the analyte of interest. The location of the Ph values for the volatile fraction are contained within the analytical run logs located within the Miscellaneous Data Section of the Complete Sample File (CSF).

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

Thomas H. Marshall 10/09/97

Thomas H. Marshall DATE

Project Manager

THM

75102

2LCA

LOW CONC. WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: SDG No.: EAEA1

	EPA SAMPLE NO.	BFB %REC#	OTHER	TOT OUT
01	VBLK04	94		0
02	EAEA1	94		0
03	EYB98	93		0
04	EYC00	101		0
05	EAZN8	103		0
06	EAZN7	103		0
07	EAEA0	90		0

			QC LIMITS % REC
BFB	=	Bromofluorobenzene	(80-120)

Column to be used to flag recovery values

* Values outside of contract required QC limits

2LCA
LOW CONC. WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EAEA1

	EPA SAMPLE NO.	BFB %REC#	OTHER	TOT OUT
01	VBLK05	95		0
02	EYB99	93		0
03	EWW01	92		0
04	EWWO2	95		0
05	EWW03	88		0
06	EADX1	86		0
07	EADX2	88		0
08	EADZ1	81		0

			QC LIMITS % REC
BFB	=	Bromofluorobenzene	(80-120)

Column to be used to flag recovery values

* Values outside of contract required QC limits

2LCA

LOW CONC. WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: SDG No.: EAEA1

	EPA SAMPLE NO.	BFB %REC#	OTHER	TOT OUT
01	VBLK06	91		0
02	EAZN8DL	86		0
03	EWW03DL	91		0
04	EADX0	90		0
05	EAZN6	94		0
06	VLCS03	95		0
07	VHBLK03	91		0

			QC LIMITS % REC
BFB	=	Bromofluorobenzene	(80-120)

Column to be used to flag recovery values

* Values outside of contract required QC limits

3LCA

LOW CONC. WATER VOLATILE LAB CONTROL SAMPLE RECOVERY

EPA SAMPLE NO.

VLCS03

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EAEA1

Lab Sample ID: VLCS03 LCS Lot No.: LA62539

Lab File ID: LCSG1003.D Date Analyzed: 10/4/97

Purge volume: 10.0 (ml) Dilution Factor: 1

LCS Aliquot: 10.0 (ul)

COMPOUND	AMOUNT ADDED (ng)	AMOUNT RECOVERED (ng)	% REC #	QC LIMITS
Vinyl Chloride	50	49.40	99	60 - 140
1,2-Dichloroethane	50	50.30	101	60 - 140
Carbon Tetrachloride	50	59.90	120	60 - 140
1,2-Dichloropropane	50	55.70	111	60 - 140
cis 1,3-Dichloropropene	50	54.10	108	60 - 140
Trichloroethene	50	57.40	115	60 - 140
1,1,2-Trichloroethane	50	52.40	105	60 - 140
Benzene	50	57.80	116	60 - 140
Bromoform	50	57.80	116	60 - 140
Tetrachloroethene	50	59.60	119	60 - 140
1,2-Dibromoethane	50	50.90	102	60 - 140
1,4-Dichlorobenzene	50	56.50	113	60 - 140

Column to be used to flag LCS recovery with an asterisk

* Values outside of QC limits

LCS Recovery: 0 outside of limits out of 12 total

COMMENTS: _____

4LCA

LOW CONC. WATER VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK04

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: SDG No.: EAEA1

Lab Sample ID: VBLK04 Date Analyzed: 10/02/97

Lab File ID: VWBJ02G1.D Time Analyzed: 11:33

Instrument ID: 5971-007

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND LCS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	EAEA1	EAEA1	41542V.D	17:19
02	EYB98	EYB98	41543V.D	17:58
03	EYC00	EYC00	41544V.D	18:37
04	EAZN8	EAZN8	41781V.D	19:15
05	EAZN7	EAZN7	41783V.D	20:32
06	EAEA0	EAEA0	41784V.D	21:11

COMMENTS:

4LCA

LOW CONC. WATER VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK05

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EAEA1

Lab Sample ID: VBLK05 Date Analyzed: 10/03/97

Lab File ID: VWBJ03G1.D Time Analyzed: 13:15

Instrument ID: 5971-007

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND LCS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	EYB99	EYB99	41785VR.D	14:36
02	EWW01	EWW01	41786V.D	15:15
03	EWWO2	EWW02	41787V.D	15:53
04	EWW03	EWW03	41788V.D	16:32
05	EADX1	EADX1	41959V.D	17:50
06	EADX2	EADX2	41960V.D	18:28
07	EADZ1	EADZ1	41961V.D	19:08

COMMENTS:

4LCA

LOW CONC. WATER VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK06

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: SDG No.: EAEA1

Lab Sample ID: VBLK06 Date Analyzed: 10/03/97

Lab File ID: VWBJ03G2.D Time Analyzed: 22:33

Instrument ID: 5971-007

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND LCS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	EAZN8DL	EAZN8DL	41781VR1.D	23:20
02	EWW03DL	EWW03DL	41788VR.D	23:58
03	EADX0	EADX0	41789VR.D	00:37
04	EAZN6	EAZN6	41782VR.D	01:16
05	VLCS03	VLCS03	LCSG1003.D	01:54
06	VHBLK03	VHBLK03	VBLK03.D	02:33

COMMENTS:

1LCA

EPA SAMPLE NO.

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

VBLK04

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: SDG No.: EAEA1

Lab Sample ID: VBLK04 Date Received:

Lab File ID: VWBJ02G1.D Date Analyzed: 10/02/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl Chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene Chloride	0.5	J
67-64-1	Acetone	5	U
75-15-0	Carbon Disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis 1,2-Dichloroethene	1	U
156-60-5	trans 1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis 1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans 1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylene (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK04

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EAEA1

Lab Sample ID: VBLK04 Date Received: _____

Lab File ID: VWBJ02G1.D Date Analyzed: 10/02/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST.CONC. (ug/L)	Q

1LCA

EPA SAMPLE NO.

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

VBLK05

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: SDG No.: EAEA1

Lab Sample ID: VBLK05 Date Received:

Lab File ID: VWBJ03G1.D Date Analyzed: 10/03/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl Chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene Chloride	2	U
67-64-1	Acetone	5	U
75-15-0	Carbon Disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis 1,2-Dichloroethene	0.9	J
156-60-5	trans 1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis 1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans 1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylene (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK05

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EAEA1

Lab Sample ID: VBLK05 Date Received: _____

Lab File ID: VWBJ03G1.D Date Analyzed: 10/03/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST.CONC. (ug/L)	Q

1LCA

EPA SAMPLE NO.

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

VBLK06

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: SDG No.: EAEA1

Lab Sample ID: VBLK06 Date Received:

Lab File ID: VWBJ03G2.D Date Analyzed: 10/03/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl Chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene Chloride	2	J
67-64-1	Acetone	3	J
75-15-0	Carbon Disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis 1,2-Dichloroethene	1	U
156-60-5	trans 1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis 1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans 1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	2	J
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylene (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK06

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EAEA1

Lab Sample ID: VBLK06 Date Received: _____

Lab File ID: VWBJ03G2.D Date Analyzed: 10/03/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST.CONC. (ug/L)	Q

1LCA

EPA SAMPLE NO.

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

VLCS03

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: SDG No.: EAEA1

Lab Sample ID: VLCS03 Date Received:

Lab File ID: LCSG1003.D Date Analyzed: 10/04/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl Chloride	5	
75-00-3	Chloroethane	1	U
75-09-2	Methylene Chloride	2	U
67-64-1	Acetone	5	U
75-15-0	Carbon Disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis 1,2-Dichloroethene	1	U
156-60-5	trans 1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	5	
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	6	
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	6	
10061-01-5	cis 1,3-Dichloropropene	5	
79-01-6	Trichloroethene	6	
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	5	
71-43-2	Benzene	6	
10061-02-6	trans 1,3-Dichloropropene	1	U
75-25-2	Bromoform	6	
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	6	
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	5	
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylene (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	6	
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VLCS03

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EAEA1

Lab Sample ID: VLCS03 Date Received: _____

Lab File ID: LCSG1003.D Date Analyzed: 10/04/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST.CONC. (ug/L)	Q

1LCA

EPA SAMPLE NO.

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

VHBLK03

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EAEA1

Lab Sample ID: VHBLK03 Date Received: 09/26/97

Lab File ID: VBLK03.D Date Analyzed: 10/04/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl Chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene Chloride	2 ~~1~~	U JB
67-64-1	Acetone	5	U
75-15-0	Carbon Disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis 1,2-Dichloroethene	1	U
156-60-5	trans 1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis 1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans 1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylene (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U

mK 10/27/97

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VHBLK03

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EAEA1

Lab Sample ID: VHBLK03 Date Received: 09/26/97

Lab File ID: VBLK03.D Date Analyzed: 10/04/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST.CONC. (ug/L)	Q

1LCA

EPA SAMPLE NO.

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EADX0

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EAEA1

Lab Sample ID: EADX0 Date Received: 09/25/97

Lab File ID: 41789VR.D Date Analyzed: 10/04/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

TB03

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl Chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene Chloride	2	JB
67-64-1	Acetone	5	U
75-15-0	Carbon Disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis 1,2-Dichloroethene	1	U
156-60-5	trans 1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis 1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans 1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylene (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U

✓ MK 10-27-97

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EADX0

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: SDG No.: EAEA1

Lab Sample ID: EADX0 Date Received: 09/25/97

Lab File ID: 41789VR.D Date Analyzed: 10/04/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST.CONC. (ug/L)	Q

1LCA

EPA SAMPLE NO.

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EADX1

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: SDG No.: EAEA1

Lab Sample ID: EADX1 Date Received: 09/25/97

Lab File ID: 41959V.D Date Analyzed: 10/03/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

MW38

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl Chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene Chloride	~~1~~	~~J~~
67-64-1	Acetone	5	U
75-15-0	Carbon Disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis 1,2-Dichloroethene	3	U B
156-60-5	trans 1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis 1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	0.3	J
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans 1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	0.7	J
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	0.7	J
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylene (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U

ZH GRM 1-8-98 Found in EB02

MK 10-27-97

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EADX1

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EAEA1

Lab Sample ID: EADX1 Date Received: 09/25/97

Lab File ID: 41959V.D Date Analyzed: 10/03/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST.CONC. (ug/L)	Q

1LCA

EPA SAMPLE NO.

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EADX2

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: SDG No.: EAEA1

Lab Sample ID: EADX2 Date Received: 09/25/97

Lab File ID: 41960V.D Date Analyzed: 10/03/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

MW23

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl Chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene Chloride	1	~~J~~ U
67-64-1	Acetone	5	U
75-15-0	Carbon Disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis 1,2-Dichloroethene	1	U
156-60-5	trans 1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis 1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans 1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylene (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U

u SRM 1-8-98 Found in EB02

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EADX2

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: SDG No.: EAEA1

Lab Sample ID: EADX2 Date Received: 09/25/97

Lab File ID: 41960V.D Date Analyzed: 10/03/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST.CONC. (ug/L)	Q

1LCA

EPA SAMPLE NO.

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EADZ1

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EAEA1

Lab Sample ID: EADZ1 Date Received: 09/25/97

Lab File ID: 41961V.D Date Analyzed: 10/03/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

TB04

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl Chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene Chloride	1	J
67-64-1	Acetone	5	U
75-15-0	Carbon Disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis 1,2-Dichloroethene	1	U
156-60-5	trans 1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis 1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans 1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylene (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EADZ1

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EAEA1

Lab Sample ID: EADZ1 Date Received: 09/25/97

Lab File ID: 41961V.D Date Analyzed: 10/03/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST.CONC. (ug/L)	Q

1LCA

EPA SAMPLE NO.

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EAEA0

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EAEA1

Lab Sample ID: EAEA0 Date Received: 09/25/97

Lab File ID: 41784V.D Date Analyzed: 10/02/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

M3S

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl Chloride	1	U
75-00-3	Chloroethane	1	
75-09-2	Methylene Chloride	2	U
67-64-1	Acetone	5	U
75-15-0	Carbon Disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis 1,2-Dichloroethene	1	U
156-60-5	trans 1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis 1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans 1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylene (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EAEA0

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EAEA1

Lab Sample ID: EAEA0 Date Received: 09/25/97

Lab File ID: 41784V.D Date Analyzed: 10/02/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST.CONC. (ug/L)	Q

1LCA

EPA SAMPLE NO.

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EAEA1

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EAEA1

Lab Sample ID: EAEA1 Date Received: 09/24/97

Lab File ID: 41542V.D Date Analyzed: 10/02/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

MIS

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl Chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene Chloride	2	U
67-64-1	Acetone	5	U
75-15-0	Carbon Disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis 1,2-Dichloroethene	1	U
156-60-5	trans 1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis 1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	~~0.8~~	~~J~~
10061-02-6	trans 1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylene (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U

1U 1RM
1-8-98
Found in
EBØZ

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EAEA1

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: SDG No.: EAEA1

Lab Sample ID: EAEA1 Date Received: 09/24/97

Lab File ID: 41542V.D Date Analyzed: 10/02/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

Number TICs found: 1

CAS NO.	COMPOUND NAME	RT	EST.CONC. (ug/L)	Q
1. 000060-29-7	Ether	7.59	12	JN

1LCA

EPA SAMPLE NO.

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EAZN6

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EAEA1

M4D

Lab Sample ID: EAZN6 Date Received: 09/25/97

Lab File ID: 41782VR.D Date Analyzed: 10/04/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl Chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene Chloride	2 ~~0.8~~	UJB
67-64-1	Acetone	5	U
75-15-0	Carbon Disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis 1,2-Dichloroethene	1	U
156-60-5	trans 1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis 1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans 1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylene (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U

mic 10-27-97

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EAZN6

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EAEA1

Lab Sample ID: EAZN6 Date Received: 09/25/97

Lab File ID: 41782VR.D Date Analyzed: 10/04/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST.CONC. (ug/L)	Q

1LCA

EPA SAMPLE NO.

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EAZN7

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: SDG No.: EAEA1

Lab Sample ID: EAZN7 Date Received: 09/25/97

Lab File ID: 41783V.D Date Analyzed: 10/02/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

M4D duplicate

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl Chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene Chloride	2	U
67-64-1	Acetone	5	U
75-15-0	Carbon Disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis 1,2-Dichloroethene	1	U
156-60-5	trans 1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis 1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans 1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylene (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EAZN7

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: SDG No.: EAEA1

Lab Sample ID: EAZN7 Date Received: 09/25/97

Lab File ID: 41783V.D Date Analyzed: 10/02/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST.CONC. (ug/L)	Q

1LCA

EPA SAMPLE NO.

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EAZN8

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: SDG No.: EAEA1

Lab Sample ID: EAZN8 Date Received: 09/25/97

Lab File ID: 41781V.D Date Analyzed: 10/02/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

M4S

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl Chloride	0.9	J
75-00-3	Chloroethane	1600	E
75-09-2	Methylene Chloride	7	B
67-64-1	Acetone	5	U
75-15-0	Carbon Disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis 1,2-Dichloroethene	0.3	J
156-60-5	trans 1,2-Dichloroethene	0.8	J
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis 1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	105	E
10061-02-6	trans 1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	0.6	J
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylene (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U

1LCA

EPA SAMPLE NO.

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EAZN8DL

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: SDG No.: EAEA1

Lab Sample ID: EAZN8DL Date Received: 09/25/97

Lab File ID: 41781VR1.D Date Analyzed: 10/03/97

Purge Volume: 10.0 (ml) Dilution Factor: 50.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

MAS dilution

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	Chloromethane	50	U
74-83-9	Bromomethane	50	U
75-01-4	Vinyl Chloride	50	U
75-00-3	Chloroethane	1200	D
75-09-2	Methylene Chloride	100 ~~38~~	JBD U
67-64-1	Acetone	250	U
75-15-0	Carbon Disulfide	50	U
75-35-4	1,1-Dichloroethene	50	U
75-34-3	1,1-Dichloroethane	50	U
156-59-2	cis 1,2-Dichloroethene	50	U
156-60-5	trans 1,2-Dichloroethene	50	U
67-66-3	Chloroform	50	U
107-06-2	1,2-Dichloroethane	50	U
78-93-3	2-Butanone	250	U
74-97-5	Bromochloromethane	50	U
71-55-6	1,1,1-Trichloroethane	50	U
56-23-5	Carbon Tetrachloride	50	U
75-27-4	Bromodichloromethane	50	U
78-87-5	1,2-Dichloropropane	50	U
10061-01-5	cis 1,3-Dichloropropene	50	U
79-01-6	Trichloroethene	50	U
124-48-1	Dibromochloromethane	50	U
79-00-5	1,1,2-Trichloroethane	47	JD
71-43-2	Benzene	82	D
10061-02-6	trans 1,3-Dichloropropene	50	U
75-25-2	Bromoform	50	U
108-10-1	4-Methyl-2-pentanone	250 ~~74~~	JBD U
591-78-6	2-Hexanone	250	U
127-18-4	Tetrachloroethene	50	U
79-34-5	1,1,2,2-Tetrachloroethane	50	U
106-93-4	1,2-Dibromoethane	50	U
108-88-3	Toluene	50	U
108-90-7	Chlorobenzene	50	U
100-41-4	Ethylbenzene	50	U
100-42-5	Styrene	50	U
1330-20-7	Xylene (total)	50	U
541-73-1	1,3-Dichlorobenzene	50	U
106-46-7	1,4-Dichlorobenzene	50	U
95-50-1	1,2-Dichlorobenzene	50	U
96-12-8	1,2-Dibromo-3-chloropropane	50	U
120-82-1	1,2,4-Trichlorobenzene	50	U

MK 10-27-97

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EAZN8

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EAEA1

Lab Sample ID: EAZN8 Date Received: 09/25/97

Lab File ID: 41781V.D Date Analyzed: 10/02/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

Number TICs found: 7

CAS NO.	COMPOUND NAME	RT	EST.CONC. (ug/L)	Q
1. 000060-29-7	Ether	7.84	6	JN
2. 000109-87-5	Methane, dimethoxy-	8.44	5	JN
3.	Unknown	9.49	3	J
4. 000108-20-3	Diisopropyl ether	10.81	6	JN
5. 000109-99-9	Furan, tetrahydro-	12.45	7	JN
6. 000111-43-3	Di-n-propyl ether	13.96	16	JN
7. 000123-91-1	1,4-Dioxane	15.67	3	JN

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EAZN8DL

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EAEA1

Lab Sample ID: EAZN8DL Date Received: 09/25/97

Lab File ID: 41781VR1.D Date Analyzed: 10/03/97

Purge Volume: 10.0 (ml) Dilution Factor: 50.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST.CONC. (ug/L)	Q

1LCA

EPA SAMPLE NO.

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EWW01

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: SDG No.: EAEA1

Lab Sample ID: EWW01 Date Received: 09/25/97

Lab File ID: 41786V.D Date Analyzed: 10/03/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

EB01

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl Chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene Chloride	1	J
67-64-1	Acetone	9	
75-15-0	Carbon Disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis 1,2-Dichloroethene	1	U
156-60-5	trans 1,2-Dichloroethene	1	U
67-66-3	Chloroform	0.4	J
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis 1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans 1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylene (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EWW01

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EAEA1

Lab Sample ID: EWW01 Date Received: 09/25/97

Lab File ID: 41786V.D Date Analyzed: 10/03/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST.CONC. (ug/L)	Q

1LCA

EPA SAMPLE NO.

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EWWO2

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: SDG No.: EAEA1

Lab Sample ID: EWW02 Date Received: 09/25/97

Lab File ID: 41787V.D Date Analyzed: 10/03/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

MW8

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl Chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene Chloride	~~4~~ 2	~~J~~ U
67-64-1	Acetone	~~4~~ 5	~~J~~ U
75-15-0	Carbon Disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis 1,2-Dichloroethene	1	U
156-60-5	trans 1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis 1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans 1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	0.2	J
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	0.9	J
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylene (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U

2U SRM 1-8-98
5U Found in EB02

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EWWO2

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EAEA1

Lab Sample ID: EWW02 Date Received: 09/25/97

Lab File ID: 41787V.D Date Analyzed: 10/03/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST.CONC. (ug/L)	Q

1LCA

EPA SAMPLE NO.

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EWW03

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EAEA1

Lab Sample ID: EWW03 Date Received: 09/25/97

Lab File ID: 41788V.D Date Analyzed: 10/03/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

MW10C

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q	
74-87-3	Chloromethane	1	U	
74-83-9	Bromomethane	1	U	
75-01-4	Vinyl Chloride	6		
75-00-3	Chloroethane	327	E	
75-09-2	Methylene Chloride	4		U
67-64-1	Acetone	5	U	
75-15-0	Carbon Disulfide	0.3	J	
75-35-4	1,1-Dichloroethene	1	U	
75-34-3	1,1-Dichloroethane	1	U	
156-59-2	cis 1,2-Dichloroethene	1	U	
156-60-5	trans 1,2-Dichloroethene	1	U	
67-66-3	Chloroform	1	U	
107-06-2	1,2-Dichloroethane	1	U	
78-93-3	2-Butanone	5	U	
74-97-5	Bromochloromethane	1	U	
71-55-6	1,1,1-Trichloroethane	1	U	
56-23-5	Carbon Tetrachloride	1	U	
75-27-4	Bromodichloromethane	1	U	
78-87-5	1,2-Dichloropropane	1	U	
10061-01-5	cis 1,3-Dichloropropene	1	U	
79-01-6	Trichloroethene	1	U	
124-48-1	Dibromochloromethane	1	U	
79-00-5	1,1,2-Trichloroethane	1	U	
71-43-2	Benzene	~~0.3~~	~~J~~	1U
10061-02-6	trans 1,3-Dichloropropene	1	U	
75-25-2	Bromoform	1	U	
108-10-1	4-Methyl-2-pentanone	5	J	
591-78-6	2-Hexanone	5	U	
127-18-4	Tetrachloroethene	1	U	
79-34-5	1,1,2,2-Tetrachloroethane	1	U	
106-93-4	1,2-Dibromoethane	1	U	
108-88-3	Toluene	0.6	J	
108-90-7	Chlorobenzene	1	U	
100-41-4	Ethylbenzene	1	U	
100-42-5	Styrene	1	U	
1330-20-7	Xylene (total)	1	U	
541-73-1	1,3-Dichlorobenzene	1	U	
106-46-7	1,4-Dichlorobenzene	1	U	
95-50-1	1,2-Dichlorobenzene	1	U	
96-12-8	1,2-Dibromo-3-chloropropane	1	U	
120-82-1	1,2,4-Trichlorobenzene	1	U	

SRM 1-8-98 Found in EB02

SRM 1-8-98

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EWW03

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EAEA1

Lab Sample ID: EWW03 Date Received: 09/25/97

Lab File ID: 41788V.D Date Analyzed: 10/03/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

Number TICs found: 1

CAS NO.	COMPOUND NAME	RT	EST.CONC. (ug/L)	Q
1. 000060-29-7	Ether	7.69	431	JN

1LCA

EPA SAMPLE NO.

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EWW03DL

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EAEA1

Lab Sample ID: EWW03DL Date Received: 09/25/97

Lab File ID: 41788VR.D Date Analyzed: 10/03/97

Purge Volume: 10.0 (ml) Dilution Factor: 20.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

MW10C dilution

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	Chloromethane	20	U
74-83-9	Bromomethane	20	U
75-01-4	Vinyl Chloride	5	JD
75-00-3	Chloroethane	315	D
75-09-2	Methylene Chloride	61	BD ✓
67-64-1	Acetone	116	BD ✓
75-15-0	Carbon Disulfide	20	U
75-35-4	1,1-Dichloroethene	20	U
75-34-3	1,1-Dichloroethane	20	U
156-59-2	cis 1,2-Dichloroethene	20	U
156-60-5	trans 1,2-Dichloroethene	20	U
67-66-3	Chloroform	20	U
107-06-2	1,2-Dichloroethane	20	U
78-93-3	2-Butanone	100	U
74-97-5	Bromochloromethane	20	U
71-55-6	1,1,1-Trichloroethane	20	U
56-23-5	Carbon Tetrachloride	20	U
75-27-4	Bromodichloromethane	20	U
78-87-5	1,2-Dichloropropane	20	U
10061-01-5	cis 1,3-Dichloropropene	20	U
79-01-6	Trichloroethene	20	U
124-48-1	Dibromochloromethane	20	U
79-00-5	1,1,2-Trichloroethane	20	U
71-43-2	Benzene	20	U
10061-02-6	trans 1,3-Dichloropropene	20	U
75-25-2	Bromoform	20	U
108-10-1	4-Methyl-2-pentanone	100	U
591-78-6	2-Hexanone	100	U
127-18-4	Tetrachloroethene	5	JD
79-34-5	1,1,2,2-Tetrachloroethane	20	U
106-93-4	1,2-Dibromoethane	20	U
108-88-3	Toluene	20	U
108-90-7	Chlorobenzene	20	U
100-41-4	Ethylbenzene	20	U
100-42-5	Styrene	20	U
1330-20-7	Xylene (total)	20	U
541-73-1	1,3-Dichlorobenzene	20	U
106-46-7	1,4-Dichlorobenzene	20	U
95-50-1	1,2-Dichlorobenzene	20	U
96-12-8	1,2-Dibromo-3-chloropropane	20	U
120-82-1	1,2,4-Trichlorobenzene	20	U

MMK 10-27-97

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EWW03DL

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EAEA1

Lab Sample ID: EWW03DL Date Received: 09/25/97

Lab File ID: 41788VR.D Date Analyzed: 10/03/97

Purge Volume: 10.0 (ml) Dilution Factor: 20.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

Number TICs found: 1

CAS NO.	COMPOUND NAME	RT	EST.CONC. (ug/L)	Q
1. 000060-29-7	Ether	7.69	2400	JND

1LCA

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EYB98

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: SDG No.: EAEA1

Lab Sample ID: EYB98 Date Received: 09/24/97

Lab File ID: 41543V.D Date Analyzed: 10/02/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

MW 15

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl Chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene Chloride	2 0.3	JB J
67-64-1	Acetone	~~4~~	~~J~~
75-15-0	Carbon Disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis 1,2-Dichloroethene	1	U
156-60-5	trans 1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis 1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	4	
10061-02-6	trans 1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylene (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U

mk 10-27-97

5U

1-8-98 SRM

Found in EB02

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EYB98

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: SDG No.: EAEA1

Lab Sample ID: EYB98 Date Received: 09/24/97

Lab File ID: 41543V.D Date Analyzed: 10/02/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST.CONC. (ug/L)	Q

1LCA

EPA SAMPLE NO.

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EYB99

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EAEA1

TB01

Lab Sample ID: EYB99 Date Received: 09/25/97

Lab File ID: 41785VR.D Date Analyzed: 10/03/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl Chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene Chloride	2	
67-64-1	Acetone	5	U
75-15-0	Carbon Disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis 1,2-Dichloroethene	1	U
156-60-5	trans 1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis 1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans 1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylene (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EYB99

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EAEA1

Lab Sample ID: EYB99 Date Received: 09/25/97

Lab File ID: 41785VR.D Date Analyzed: 10/03/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST.CONC. (ug/L)	Q

1LCA

EPA SAMPLE NO.

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EYC00

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: SDG No.: EAEA1

Lab Sample ID: EYC00 Date Received: 09/24/97

Lab File ID: 41544V.D Date Analyzed: 10/02/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

TB02

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl Chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene Chloride	~~0.5~~ 1	JB U
67-64-1	Acetone	5	U
75-15-0	Carbon Disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis 1,2-Dichloroethene	1	U
156-60-5	trans 1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis 1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans 1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylene (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U

MK 10-27-97

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EYC00

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EAEA1

Lab Sample ID: EYC00 Date Received: 09/24/97

Lab File ID: 41544V.D Date Analyzed: 10/02/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST.CONC. (ug/L)	Q

2LCB

LOW CONC. WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EAEA1

	EPA SAMPLE NO.	S1 NBZ #	S2 FBP #	S3 TPH #	S4 PHL #	S5 2-FP #	S6 TBP #	TOT OUT
01	SBLKJ4	86	75	83	89	82	61	0
02	EAEA1	88	87	84	92	90	72	0
03	EYB98	94	87	83	105	100	75	0
04	SBLKJ6	82	73	80	84	76	55	0
05	SLCSG5	90	80	82	84	73	57	0
06	EAZN8	93	80	89	87	90	69	0
07	EAZN6	87	76	79	90	80	66	0
08	EAZN7	87	76	86	88	83	65	0
09	EAEA0	93	79	83	88	79	69	0
10	EWW01	89	78	84	80	73	57	0
11	EWW02	85	76	88	83	79	61	0
12	EWW03	81	82	57	99	89	75	0
13	EADX1	79	78	73	87	74	59	0
14	EADX2	81	80	45	89	76	60	0
15	EAZN8DL	83 ~~41~~	76 ~~38~~	74 ~~37~~	94 ~~47~~	89 ~~45~~	72 ~~36~~	0

CLT 10/7/97

			QC LIMITS
NBZ	=	d5-Nitrobenzene	(23-120)
FBP	=	2-Fluorobiphenyl	(30-115)
TPH	=	d14-Terphenyl	(18-140)
PHL	=	d5-Phenol	(15-115)
2-FP	=	2-Fluorophenol	(15-121)
TBP	=	2,4,6-Tribromophenol	(15-130)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogate diluted out

3LCB

LOW CONC. WATER SEMIVOLATILE LAB CONTROL SAMPLE RECOVERY

EPA SAMPLE NO.

SLCSG5

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EAEA1

Lab Sample ID: SLCSG5 LCS Lot No.: MB102C

Lab File ID: SLCSG5.D Date Extracted 09/29/97

LCS Aliquot: 10.0 (ul) Date Analyzed: 10/4/97

Concentrated Extract Volume: 1000 (ul) Dilution Factor: 1

Injection Volume: 1 (ul)

COMPOUND	AMOUNT ADDED (ng)	AMOUNT RECOVERED (ng)	% REC #	QC LIMITS
Phenol	40	30.70	77	40 - 120
bis(2-Chloroethyl) ether	20	14.90	75	50 - 110
2-Chlorophenol	40	30.70	77	50 - 110
n-Nitroso-di-n-propylamine	20	17.00	85	30 - 110
Hexachloroethane	20	12.90	65	20 - 110
Isophorone	20	14.90	75	50 - 110
Naphthalene	20	14.30	72	30 - 110
4-Chloroaniline	40	24.00	60	10 - 120
2,4,6-Trichlorophenol	40	30.90	77	40 - 120
2,4-Dinitrotoluene	20	13.90	70	30 - 120
Diethylphthalate	20	18.40	92	50 - 120
n-Nitrosodiphenylamine	20	14.70	74	30 - 110
Hexachlorobenzene	20	15.60	78	40 - 120
Benzo(a) pyrene	20	15.30	77	50 - 120

Column to be used to flag LCS recovery with an asterisk

* Values outside of QC limits

LCS Recovery: 0 outside limits out of 14 total

COMMENTS:

4LCB

LOW CONC. WATER SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLKJ4

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: SDG No.: EAEA1

Lab Sample ID: SBLKJ4 Date Extracted: 9/25/97

Lab File ID: SBLKJ4.D Date Analyzed: 10/03/97

Instrument ID: 5971-024 Time Analyzed: 17:43

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND LCS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	EAEA1	EAEA1	41542B.D	10/04/97
02	EYB98	EYB98	41543B.D	10/04/97

COMMENTS:

4LCB

LOW CONC. WATER SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLKJ6

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EAEA1

Lab Sample ID: SBLKJ6 Date Extracted: 9/29/97

Lab File ID: SBLKJ6.D Date Analyzed: 10/04/97

Instrument ID: 5971-024 Time Analyzed: 13:29

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND LCS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	SLCSG5	SLCSG5	SLCSG5.D	10/04/97
02	EAZN8	EAZN8	41781B.D	10/04/97
03	EAZN6	EAZN6	41782B.D	10/04/97
04	EAZN7	EAZN7	41783B.D	10/04/97
05	EAEA0	EAEA0	41784B.D	10/04/97
06	EWW01	EWW01	41786B.D	10/04/97
07	EWW02	EWW02	41787B.D	10/04/97
08	EWW03	EWW03	41788B.D	10/05/97
09	EADX1	EADX1	41959B.D	10/05/97
10	EADX2	EADX2	41960B.D	10/05/97
11	EAZN8DL	EAZN8DL	41781DL.D	10/05/97

COMMENTS:

1LCB

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SBLKJ4

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: SDG No.: EAEA1

Lab Sample ID: SBLKJ4 Date Received:

Lab File ID: SBLKJ4.D Date Extracted: 09/25/97

Sample Volume: 1000 (ML) Date Analyzed: 10/03/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
108-95-2	Phenol	5	U
111-44-4	bis(2-Chloroethyl) ether	5	U
95-57-8	2-Chlorophenol	5	U
95-48-7	2-Methylphenol	5	U
108-60-1	2,2'-oxybis-(1-Chloropropane)	5	U
106-44-5	4-Methylphenol	5	U
621-64-7	n-Nitroso-di-n-propylamine	5	U
67-72-1	Hexachloroethane	5	U
98-95-3	Nitrobenzene	5	U
78-59-1	Isophorone	5	U
88-75-5	2-Nitrophenol	5	U
105-67-9	2,4-Dimethylphenol	5	U
111-91-1	bis(2-chloroethoxy) methane	5	U
120-83-2	2,4-Dichlorophenol	5	U
91-20-3	Naphthalene	5	U
106-47-8	4-Chloroaniline	5	U
87-68-3	Hexachlorobutadiene	5	U
59-50-7	4-Chloro-3-methylphenol	5	U
91-57-6	2-Methylnaphthalene	5	U
77-47-4	Hexachlorocyclopentadiene	5	U
88-06-2	2,4,6-Trichlorophenol	5	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronapthalene	5	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5	U
208-96-8	Acenapththylene	5	U
606-20-2	2,6-Dinitrotoluene	5	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5	U
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5	U

1LCC

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SBLKJ4

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: SDG No.: EAEA1

Lab Sample ID: SBLKJ4 Date Received:

Lab File ID: SBLKJ4.D Date Extracted: 09/25/97

Sample Volume: 1000 (ML) Date Analyzed: 10/03/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
121-14-2	2,4-Dinitrotoluene	5	U
84-66-2	Diethylphthalate	5	U
7005-72-3	4-Chlorophenyl phenyl ether	5	U
86-73-7	Fluorene	5	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	n-Nitrosodiphenylamine(1)	5	U
101-55-3	4-Bromophenyl phenyl ether	5	U
118-74-1	Hexachlorobenzene	5	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	5	U
120-12-7	Anthracene	5	U
84-74-2	Di-n-butylphthalate	5	U
206-44-0	Fluoranthene	5	U
129-00-0	Pyrene	5	U
85-68-7	Butyl benzyl phthalate	5	U
91-94-1	3,3'-Dichlorobenzidine	5	U
56-55-3	Benzo(a) anthracene	5	U
218-01-9	Chrysene	5	U
117-81-7	bis(2-Ethylhexyl) phthalate	5	U
117-84-0	Di-n-octylphthalate	5	U
205-99-2	Benzo(b) fluoranthene	5	U
207-08-9	Benzo(k) fluoranthene	5	U
50-32-8	Benzo(a) pyrene	5	U
193-39-5	Indeno (1,2,3-cd) pyrene	5	U
53-70-3	Dibenz (ah) anthracene	5	U
191-24-2	Benzo (ghi) perylene	5	U

(1) - Cannot be separated from Diphenylamine

1LCF

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SBLKJ4

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EAEA1

Lab Sample ID: SBLKJ4 Date Received: _____

Lab File ID: SBLKJ4.D Date Extracted: 09/25/97

Sample Volume: 1000 (ML) Date Analyzed: 10/03/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. ug/L	Q

1LCB

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLKJ6

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EAEA1

Lab Sample ID: SBLKJ6 Date Received: _____

Lab File ID: SBLKJ6.D Date Extracted: 09/29/97

Sample Volume: 1000 (ML) Date Analyzed: 10/04/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
108-95-2	Phenol	5	U
111-44-4	bis(2-Chloroethyl) ether	5	U
95-57-8	2-Chlorophenol	5	U
95-48-7	2-Methylphenol	5	U
108-60-1	2,2'-oxybis-(1-Chloropropane)	5	U
106-44-5	4-Methylphenol	5	U
621-64-7	n-Nitroso-di-n-propylamine	5	U
67-72-1	Hexachloroethane	5	U
98-95-3	Nitrobenzene	5	U
78-59-1	Isophorone	5	U
88-75-5	2-Nitrophenol	5	U
105-67-9	2,4-Dimethylphenol	5	U
111-91-1	bis(2-chloroethoxy) methane	5	U
120-83-2	2,4-Dichlorophenol	5	U
91-20-3	Naphthalene	5	U
106-47-8	4-Chloroaniline	5	U
87-68-3	Hexachlorobutadiene	5	U
59-50-7	4-Chloro-3-methylphenol	5	U
91-57-6	2-Methylnaphthalene	5	U
77-47-4	Hexachlorocyclopentadiene	5	U
88-06-2	2,4,6-Trichlorophenol	5	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronapthalene	5	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5	U
208-96-8	Acenapththylene	5	U
606-20-2	2,6-Dinitrotoluene	5	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5	U
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5	U

1LCC

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SBLKJ6

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EAEA1

Lab Sample ID: SBLKJ6 Date Received: _____

Lab File ID: SBLKJ6.D Date Extracted: 09/29/97

Sample Volume: 1000 (ML) Date Analyzed: 10/04/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
121-14-2	2,4-Dinitrotoluene	5	U
84-66-2	Diethylphthalate	5	U
7005-72-3	4-Chlorophenyl phenyl ether	5	U
86-73-7	Fluorene	5	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	n-Nitrosodiphenylamine(1)	5	U
101-55-3	4-Bromophenyl phenyl ether	5	U
118-74-1	Hexachlorobenzene	5	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	5	U
120-12-7	Anthracene	5	U
84-74-2	Di-n-butylphthalate	5	U
206-44-0	Fluoranthene	5	U
129-00-0	Pyrene	5	U
85-68-7	Butyl benzyl phthalate	5	U
91-94-1	3,3'-Dichlorobenzidine	5	U
56-55-3	Benzo(a) anthracene	5	U
218-01-9	Chrysene	5	U
117-81-7	bis(2-Ethylhexyl) phthalate	5	U
117-84-0	Di-n-octylphthalate	5	U
205-99-2	Benzo(b) fluoranthene	5	U
207-08-9	Benzo(k) fluoranthene	5	U
50-32-8	Benzo(a) pyrene	5	U
193-39-5	Indeno (1,2,3-cd) pyrene	5	U
53-70-3	Dibenz (ah) anthracene	5	U
191-24-2	Benzo (ghi) perylene	5	U

(1) - Cannot be separated from Diphenylamine

1LCF

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SBLKJ6

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EAEA1

Lab Sample ID: SBLKJ6 Date Received: _____

Lab File ID: SBLKJ6.D Date Extracted: 09/29/97

Sample Volume: 1000 (ML) Date Analyzed: 10/04/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. ug/L	Q

1LCB

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SLCSG5

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: SDG No.: EAEA1

Lab Sample ID: SLCSG5 Date Received:

Lab File ID: SLCSG5.D Date Extracted: 09/29/97

Sample Volume: 1000 (ML) Date Analyzed: 10/04/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
108-95-2	Phenol	31	
111-44-4	bis(2-Chloroethyl) ether	15	
95-57-8	2-Chlorophenol	31	
95-48-7	2-Methylphenol	5	U
108-60-1	2,2'-oxybis-(1-Chloropropane)	5	U
106-44-5	4-Methylphenol	5	U
621-64-7	n-Nitroso-di-n-propylamine	17	
67-72-1	Hexachloroethane	13	
98-95-3	Nitrobenzene	5	U
78-59-1	Isophorone	15	
88-75-5	2-Nitrophenol	5	U
105-67-9	2,4-Dimethylphenol	5	U
111-91-1	bis(2-chloroethoxy) methane	5	U
120-83-2	2,4-Dichlorophenol	5	U
91-20-3	Naphthalene	14	
106-47-8	4-Chloroaniline	24	
87-68-3	Hexachlorobutadiene	5	U
59-50-7	4-Chloro-3-methylphenol	5	U
91-57-6	2-Methylnaphthalene	5	U
77-47-4	Hexachlorocyclopentadiene	5	U
88-06-2	2,4,6-Trichlorophenol	31	
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronapthalene	5	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5	U
208-96-8	Acenapththylene	5	U
606-20-2	2,6-Dinitrotoluene	5	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5	U
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5	U

1LCC

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SLCSG5

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: SDG No.: EAEA1

Lab Sample ID: SLCSG5 Date Received:

Lab File ID: SLCSG5.D Date Extracted: 09/29/97

Sample Volume: 1000 (ML) Date Analyzed: 10/04/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
121-14-2	2,4-Dinitrotoluene	14	
84-66-2	Diethylphthalate	18	
7005-72-3	4-Chlorophenyl phenyl ether	5	U
86-73-7	Fluorene	5	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	n-Nitrosodiphenylamine(1)	15	
101-55-3	4-Bromophenyl phenyl ether	5	U
118-74-1	Hexachlorobenzene	16	
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	5	U
120-12-7	Anthracene	5	U
84-74-2	Di-n-butylphthalate	5	U
206-44-0	Fluoranthene	5	U
129-00-0	Pyrene	5	U
85-68-7	Butyl benzyl phthalate	5	U
91-94-1	3,3'-Dichlorobenzidine	5	U
56-55-3	Benzo(a) anthracene	5	U
218-01-9	Chrysene	5	U
117-81-7	bis(2-Ethylhexyl) phthalate	5	U
117-84-0	Di-n-octylphthalate	5	U
205-99-2	Benzo(b) fluoranthene	5	U
207-08-9	Benzo(k) fluoranthene	5	U
50-32-8	Benzo(a) pyrene	15	
193-39-5	Indeno (1,2,3-cd) pyrene	5	U
53-70-3	Dibenz (ah) anthracene	5	U
191-24-2	Benzo (ghi) perylene	5	U

(1) - Cannot be separated from Diphenylamine

1LCB

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EADX1

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EAEA1

Lab Sample ID: EADX1 Date Received: 09/26/97

Lab File ID: 41959B.D Date Extracted: 09/29/97

Sample Volume: 1000 (ML) Date Analyzed: 10/05/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

MW38

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
108-95-2	Phenol	14	
111-44-4	bis(2-Chloroethyl) ether	5	U
95-57-8	2-Chlorophenol	5	U
95-48-7	2-Methylphenol	5	U
108-60-1	2,2'-oxybis-(1-Chloropropane)	5	U
106-44-5	4-Methylphenol	5	U
621-64-7	n-Nitroso-di-n-propylamine	5	U
67-72-1	Hexachloroethane	5	U
98-95-3	Nitrobenzene	5	U
78-59-1	Isophorone	5	U
88-75-5	2-Nitrophenol	5	U
105-67-9	2,4-Dimethylphenol	5	U
111-91-1	bis(2-chloroethoxy) methane	5	U
120-83-2	2,4-Dichlorophenol	5	U
91-20-3	Naphthalene	5	U
106-47-8	4-Chloroaniline	5	U
87-68-3	Hexachlorobutadiene	5	U
59-50-7	4-Chloro-3-methylphenol	5	U
91-57-6	2-Methylnaphthalene	5	U
77-47-4	Hexachlorocyclopentadiene	5	U
88-06-2	2,4,6-Trichlorophenol	5	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronapthalene	5	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5	U
208-96-8	Acenapththylene	5	U
606-20-2	2,6-Dinitrotoluene	5	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5	U
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5	U

1LCC

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EADX1

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: SDG No.: EAEA1

Lab Sample ID: EADX1 Date Received: 09/26/97

Lab File ID: 41959B.D Date Extracted: 09/29/97

Sample Volume: 1000 (ML) Date Analyzed: 10/05/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
121-14-2	2,4-Dinitrotoluene	5	U
84-66-2	Diethylphthalate	5	U
7005-72-3	4-Chlorophenyl phenyl ether	5	U
86-73-7	Fluorene	5	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	n-Nitrosodiphenylamine(1)	5	U
101-55-3	4-Bromophenyl phenyl ether	5	U
118-74-1	Hexachlorobenzene	5	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	5	U
120-12-7	Anthracene	5	U
84-74-2	Di-n-butylphthalate	5	U
206-44-0	Fluoranthene	5	U
129-00-0	Pyrene	5	U
85-68-7	Butyl benzyl phthalate	5	U
91-94-1	3,3'-Dichlorobenzidine	5	U
56-55-3	Benzo(a) anthracene	5	U
218-01-9	Chrysene	5	U
117-81-7	bis(2-Ethylhexyl) phthalate	5	U
117-84-0	Di-n-octylphthalate	5	U
205-99-2	Benzo(b) fluoranthene	5	U
207-08-9	Benzo(k) fluoranthene	5	U
50-32-8	Benzo(a) pyrene	5	U
193-39-5	Indeno (1,2,3-cd) pyrene	5	U
53-70-3	Dibenz (ah) anthracene	5	U
191-24-2	Benzo (ghi) perylene	5	U

(1) - Cannot be separated from Diphenylamine

1LCF

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EADX1

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EAEA1

Lab Sample ID: EADX1 Date Received: 09/26/97

Lab File ID: 41959B.D Date Extracted: 09/29/97

Sample Volume: 1000 (ML) Date Analyzed: 10/05/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

Number TICs found: 1

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. ug/L	Q
1. 000112-34-5	Ethanol, 2-(2-butoxyethoxy)-	9.79	10	JN

1LCB

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EADX2

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: SDG No.: EAEA1

Lab Sample ID: EADX2 Date Received: 09/26/97

Lab File ID: 41960B.D Date Extracted: 09/29/97

Sample Volume: 1000 (ML) Date Analyzed: 10/05/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

MW23

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
108-95-2	Phenol	5	U
111-44-4	bis(2-Chloroethyl) ether	5	U
95-57-8	2-Chlorophenol	5	U
95-48-7	2-Methylphenol	5	U
108-60-1	2,2'-oxybis-(1-Chloropropane)	5	U
106-44-5	4-Methylphenol	5	U
621-64-7	n-Nitroso-di-n-propylamine	5	U
67-72-1	Hexachloroethane	5	U
98-95-3	Nitrobenzene	5	U
78-59-1	Isophorone	5	U
88-75-5	2-Nitrophenol	5	U
105-67-9	2,4-Dimethylphenol	5	U
111-91-1	bis(2-chloroethoxy) methane	5	U
120-83-2	2,4-Dichlorophenol	5	U
91-20-3	Naphthalene	5	U
106-47-8	4-Chloroaniline	5	U
87-68-3	Hexachlorobutadiene	5	U
59-50-7	4-Chloro-3-methylphenol	5	U
91-57-6	2-Methylnaphthalene	5	U
77-47-4	Hexachlorocyclopentadiene	5	U
88-06-2	2,4,6-Trichlorophenol	5	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronapthalene	5	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5	U
208-96-8	Acenapththylene	5	U
606-20-2	2,6-Dinitrotoluene	5	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5	U
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5	U

1LCC

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EADX2

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EAEA1

Lab Sample ID: EADX2 Date Received: 09/26/97

Lab File ID: 41960B.D Date Extracted: 09/29/97

Sample Volume: 1000 (ML) Date Analyzed: 10/05/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
121-14-2	2,4-Dinitrotoluene	5	U
84-66-2	Diethylphthalate	5	U
7005-72-3	4-Chlorophenyl phenyl ether	5	U
86-73-7	Fluorene	5	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	n-Nitrosodiphenylamine(1)	5	U
101-55-3	4-Bromophenyl phenyl ether	5	U
118-74-1	Hexachlorobenzene	5	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	5	U
120-12-7	Anthracene	5	U
84-74-2	Di-n-butylphthalate	5	U
206-44-0	Fluoranthene	5	U
129-00-0	Pyrene	5	U
85-68-7	Butyl benzyl phthalate	5	U
91-94-1	3,3'-Dichlorobenzidine	5	U
56-55-3	Benzo(a) anthracene	5	U
218-01-9	Chrysene	5	U
117-81-7	bis(2-Ethylhexyl) phthalate	~~2~~	~~J~~
117-84-0	Di-n-octylphthalate	5	U
205-99-2	Benzo(b) fluoranthene	5	U
207-08-9	Benzo(k) fluoranthene	5	U
50-32-8	Benzo(a) pyrene	5	U
193-39-5	Indeno (1,2,3-cd) pyrene	5	U
53-70-3	Dibenz (ah) anthracene	5	U
191-24-2	Benzo (ghi) perylene	5	U

(1) - Cannot be separated from Diphenylamine

SRM 1-8-98

5U Found in EB02

1LCF

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EADX2

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EAEA1

Lab Sample ID: EADX2 Date Received: 09/26/97

Lab File ID: 41960B.D Date Extracted: 09/29/97

Sample Volume: 1000 (ML) Date Analyzed: 10/05/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

Number TICs found: 1

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. ug/L	Q
1.	Unknown	21.60	10	J

1LCB

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EAEA0

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: SDG No.: EAEA1

Lab Sample ID: EAEA0 Date Received: 09/25/97

Lab File ID: 41784B.D Date Extracted: 09/29/97

Sample Volume: 1000 (ML) Date Analyzed: 10/04/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

M35

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
108-95-2	Phenol	5	U
111-44-4	bis(2-Chloroethyl) ether	2	J
95-57-8	2-Chlorophenol	5	U
95-48-7	2-Methylphenol	5	U
108-60-1	2,2'-oxybis-(1-Chloropropane)	8	
106-44-5	4-Methylphenol	5	U
621-64-7	n-Nitroso-di-n-propylamine	5	U
67-72-1	Hexachloroethane	5	U
98-95-3	Nitrobenzene	5	U
78-59-1	Isophorone	5	U
88-75-5	2-Nitrophenol	5	U
105-67-9	2,4-Dimethylphenol	5	U
111-91-1	bis(2-chloroethoxy) methane	5	U
120-83-2	2,4-Dichlorophenol	5	U
91-20-3	Naphthalene	5	U
106-47-8	4-Chloroaniline	5	U
87-68-3	Hexachlorobutadiene	5	U
59-50-7	4-Chloro-3-methylphenol	5	U
91-57-6	2-Methylnaphthalene	5	U
77-47-4	Hexachlorocyclopentadiene	5	U
88-06-2	2,4,6-Trichlorophenol	5	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronapthalene	5	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5	U
208-96-8	Acenapththylene	5	U
606-20-2	2,6-Dinitrotoluene	5	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5	U
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5	U

1LCC

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EAEA0

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: SDG No.: EAEA1

Lab Sample ID: EAEA0 Date Received: 09/25/97

Lab File ID: 41784B.D Date Extracted: 09/29/97

Sample Volume: 1000 (ML) Date Analyzed: 10/04/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
121-14-2	2,4-Dinitrotoluene	5	U
84-66-2	Diethylphthalate	5	U
7005-72-3	4-Chlorophenyl phenyl ether	5	U
86-73-7	Fluorene	5	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	n-Nitrosodiphenylamine(1)	5	U
101-55-3	4-Bromophenyl phenyl ether	5	U
118-74-1	Hexachlorobenzene	5	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	5	U
120-12-7	Anthracene	5	U
84-74-2	Di-n-butylphthalate	5	U
206-44-0	Fluoranthene	5	U
129-00-0	Pyrene	5	U
85-68-7	Butyl benzyl phthalate	5	U
91-94-1	3,3'-Dichlorobenzidine	5	U
56-55-3	Benzo(a) anthracene	5	U
218-01-9	Chrysene	5	U
117-81-7	bis(2-Ethylhexyl) phthalate	~~+~~	~~+~~
117-84-0	Di-n-octylphthalate	5	U
205-99-2	Benzo(b) fluoranthene	5	U
207-08-9	Benzo(k) fluoranthene	5	U
50-32-8	Benzo(a) pyrene	5	U
193-39-5	Indeno (1,2,3-cd) pyrene	5	U
53-70-3	Dibenz (ah) anthracene	5	U
191-24-2	Benzo (ghi) perylene	5	U

(1) - Cannot be separated from Diphenylamine

SRM
SU 1-8-98
Found in EB02

1LCF

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TENTATIVELY IDENTIFIED COMPOUNDS

EAEA0

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EAEA1

Lab Sample ID: EAEA0 Date Received: 09/25/97

Lab File ID: 41784B.D Date Extracted: 09/29/97

Sample Volume: 1000 (ML) Date Analyzed: 10/04/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

Number TICs found: 2

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. ug/L	Q
1. 000112-36-7	Ethane, 1,1'-oxybis[2-ethoxy-]	7.76	43	JN
2. 000112-34-5	Ethanol, 2-(2-butoxyethoxy)-	9.80	12	JN

1LCB

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EAEA1

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: SDG No.: EAEA1

Lab Sample ID: EAEA1 Date Received: 09/24/97

Lab File ID: 41542B.D Date Extracted: 09/25/97

Sample Volume: 1000 (ML) Date Analyzed: 10/04/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

M1S

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
108-95-2	Phenol	48	
111-44-4	bis(2-Chloroethyl) ether	5	U
95-57-8	2-Chlorophenol	5	U
95-48-7	2-Methylphenol	5	U
108-60-1	2,2'-oxybis-(1-Chloropropane)	5	U
106-44-5	4-Methylphenol	5	U
621-64-7	n-Nitroso-di-n-propylamine	5	U
67-72-1	Hexachloroethane	5	U
98-95-3	Nitrobenzene	5	U
78-59-1	Isophorone	5	U
88-75-5	2-Nitrophenol	5	U
105-67-9	2,4-Dimethylphenol	5	U
111-91-1	bis(2-chloroethoxy) methane	5	U
120-83-2	2,4-Dichlorophenol	5	U
91-20-3	Naphthalene	5	U
106-47-8	4-Chloroaniline	5	U
87-68-3	Hexachlorobutadiene	5	U
59-50-7	4-Chloro-3-methylphenol	5	U
91-57-6	2-Methylnaphthalene	5	U
77-47-4	Hexachlorocyclopentadiene	5	U
88-06-2	2,4,6-Trichlorophenol	5	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronapthalene	5	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5	U
208-96-8	Acenapththylene	5	U
606-20-2	2,6-Dinitrotoluene	5	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5	U
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5	U

1LCC

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EAEA1

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EAEA1

Lab Sample ID: EAEA1 Date Received: 09/24/97

Lab File ID: 41542B.D Date Extracted: 09/25/97

Sample Volume: 1000 (ML) Date Analyzed: 10/04/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
121-14-2	2,4-Dinitrotoluene	5	U
84-66-2	Diethylphthalate	5	U
7005-72-3	4-Chlorophenyl phenyl ether	5	U
86-73-7	Fluorene	5	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	n-Nitrosodiphenylamine(1)	5	U
101-55-3	4-Bromophenyl phenyl ether	5	U
118-74-1	Hexachlorobenzene	5	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	5	U
120-12-7	Anthracene	5	U
84-74-2	Di-n-butylphthalate	5	U
206-44-0	Fluoranthene	5	U
129-00-0	Pyrene	5	U
85-68-7	Butyl benzyl phthalate	5	U
91-94-1	3,3'-Dichlorobenzidine	5	U
56-55-3	Benzo(a) anthracene	5	U
218-01-9	Chrysene	5	U
117-81-7	bis(2-Ethylhexyl) phthalate	5	~~J~~ U
117-84-0	Di-n-octylphthalate	5	U
205-99-2	Benzo(b) fluoranthene	5	U
207-08-9	Benzo(k) fluoranthene	5	U
50-32-8	Benzo(a) pyrene	5	U
193-39-5	Indeno (1,2,3-cd) pyrene	5	U
53-70-3	Dibenz (ah) anthracene	5	U
191-24-2	Benzo (ghi) perylene	5	U

(1) - Cannot be separated from Diphenylamine

SRM 1-8-98 Found in EB02

1LCF

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EAEA1

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: SDG No.: EAEA1

Lab Sample ID: EAEA1 Date Received: 09/24/97

Lab File ID: 41542B.D Date Extracted: 09/25/97

Sample Volume: 1000 (ML) Date Analyzed: 10/04/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

Number TICs found: 4

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. ug/L	Q
1. 000112-34-5	Ethanol, 2-(2-butoxyethoxy)-	9.84	41	JN
2.	Unknown	10.20	27	J
3.	Unknown	20.50	22	J
4. 010544-50-0	Sulfur, mol. (S8)	22.89	98	JN

1LCB

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EAZN6

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: SDG No.: EAEA1

Lab Sample ID: EAZN6 Date Received: 09/25/97

Lab File ID: 41782B.D Date Extracted: 09/29/97

Sample Volume: 1000 (ML) Date Analyzed: 10/04/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

M4D

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
108-95-2	Phenol	14	
111-44-4	bis(2-Chloroethyl) ether	5	U
95-57-8	2-Chlorophenol	5	U
95-48-7	2-Methylphenol	5	U
108-60-1	2,2'-oxybis-(1-Chloropropane)	5	U
106-44-5	4-Methylphenol	5	U
621-64-7	n-Nitroso-di-n-propylamine	5	U
67-72-1	Hexachloroethane	5	U
98-95-3	Nitrobenzene	5	U
78-59-1	Isophorone	5	U
88-75-5	2-Nitrophenol	5	U
105-67-9	2,4-Dimethylphenol	5	U
111-91-1	bis(2-chloroethoxy) methane	5	U
120-83-2	2,4-Dichlorophenol	5	U
91-20-3	Naphthalene	5	U
106-47-8	4-Chloroaniline	5	U
87-68-3	Hexachlorobutadiene	5	U
59-50-7	4-Chloro-3-methylphenol	5	U
91-57-6	2-Methylnaphthalene	5	U
77-47-4	Hexachlorocyclopentadiene	5	U
88-06-2	2,4,6-Trichlorophenol	5	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronapthalene	5	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5	U
208-96-8	Acenapththylene	5	U
606-20-2	2,6-Dinitrotoluene	5	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5	U
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5	U

1LCC

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EAZN6

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: SDG No.: EAEA1

Lab Sample ID: EAZN6 Date Received: 09/25/97

Lab File ID: 41782B.D Date Extracted: 09/29/97

Sample Volume: 1000 (ML) Date Analyzed: 10/04/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
121-14-2	2,4-Dinitrotoluene	5	U
84-66-2	Diethylphthalate	5	U
7005-72-3	4-Chlorophenyl phenyl ether	5	U
86-73-7	Fluorene	5	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	n-Nitrosodiphenylamine(1)	5	U
101-55-3	4-Bromophenyl phenyl ether	5	U
118-74-1	Hexachlorobenzene	5	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	5	U
120-12-7	Anthracene	5	U
84-74-2	Di-n-butylphthalate	5	U
206-44-0	Fluoranthene	5	U
129-00-0	Pyrene	5	U
85-68-7	Butyl benzyl phthalate	5	U
91-94-1	3,3'-Dichlorobenzidine	5	U
56-55-3	Benzo(a) anthracene	5	U
218-01-9	Chrysene	5	U
117-81-7	bis(2-Ethylhexyl) phthalate	5	U
117-84-0	Di-n-octylphthalate	5	U
205-99-2	Benzo(b) fluoranthene	5	U
207-08-9	Benzo(k) fluoranthene	5	U
50-32-8	Benzo(a) pyrene	5	U
193-39-5	Indeno (1,2,3-cd) pyrene	5	U
53-70-3	Dibenz (ah) anthracene	5	U
191-24-2	Benzo (ghi) perylene	5	U

(1) - Cannot be separated from Diphenylamine

1LCF

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EAZN6

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EAEA1

Lab Sample ID: EAZN6 Date Received: 09/25/97

Lab File ID: 41782B.D Date Extracted: 09/29/97

Sample Volume: 1000 (ML) Date Analyzed: 10/04/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

Number TICs found: 1

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. ug/L	Q
1. 000075-84-3	1-Propanol, 2,2-dimethyl-	8.48	53	JN

1LCB

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EAZN7

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: SDG No.: EAEA1

Lab Sample ID: EAZN7 Date Received: 09/25/97

Lab File ID: 41783B.D Date Extracted: 09/29/97

Sample Volume: 1000 (ML) Date Analyzed: 10/04/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

M4D duplicate

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
108-95-2	Phenol	52	
111-44-4	bis(2-Chloroethyl) ether	5	U
95-57-8	2-Chlorophenol	5	U
95-48-7	2-Methylphenol	5	U
108-60-1	2,2'-oxybis-(1-Chloropropane)	5	U
106-44-5	4-Methylphenol	5	U
621-64-7	n-Nitroso-di-n-propylamine	5	U
67-72-1	Hexachloroethane	5	U
98-95-3	Nitrobenzene	5	U
78-59-1	Isophorone	5	U
88-75-5	2-Nitrophenol	5	U
105-67-9	2,4-Dimethylphenol	5	U
111-91-1	bis(2-chloroethoxy) methane	5	U
120-83-2	2,4-Dichlorophenol	5	U
91-20-3	Naphthalene	5	U
106-47-8	4-Chloroaniline	5	U
87-68-3	Hexachlorobutadiene	5	U
59-50-7	4-Chloro-3-methylphenol	5	U
91-57-6	2-Methylnaphthalene	5	U
77-47-4	Hexachlorocyclopentadiene	5	U
88-06-2	2,4,6-Trichlorophenol	5	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronapthalene	5	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5	U
208-96-8	Acenapththylene	5	U
606-20-2	2,6-Dinitrotoluene	5	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5	U
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5	U

1LCC

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EAZN7

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: SDG No.: EAEA1

Lab Sample ID: EAZN7 Date Received: 09/25/97

Lab File ID: 41783B.D Date Extracted: 09/29/97

Sample Volume: 1000 (ML) Date Analyzed: 10/04/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
121-14-2	2,4-Dinitrotoluene	5	U
84-66-2	Diethylphthalate	5	U
7005-72-3	4-Chlorophenyl phenyl ether	5	U
86-73-7	Fluorene	5	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	n-Nitrosodiphenylamine(1)	5	U
101-55-3	4-Bromophenyl phenyl ether	5	U
118-74-1	Hexachlorobenzene	5	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	5	U
120-12-7	Anthracene	5	U
84-74-2	Di-n-butylphthalate	5	U
206-44-0	Fluoranthene	5	U
129-00-0	Pyrene	5	U
85-68-7	Butyl benzyl phthalate	5	U
91-94-1	3,3'-Dichlorobenzidine	5	U
56-55-3	Benzo(a) anthracene	5	U
218-01-9	Chrysene	5	U
117-81-7	bis(2-Ethylhexyl) phthalate	8	
117-84-0	Di-n-octylphthalate	5	U
205-99-2	Benzo(b) fluoranthene	5	U
207-08-9	Benzo(k) fluoranthene	5	U
50-32-8	Benzo(a) pyrene	5	U
193-39-5	Indeno (1,2,3-cd) pyrene	5	U
53-70-3	Dibenz (ah) anthracene	5	U
191-24-2	Benzo (ghi) perylene	5	U

(1) - Cannot be separated from Diphenylamine

1LCF

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EAZN7

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: SDG No.: EAEA1

Lab Sample ID: EAZN7 Date Received: 09/25/97

Lab File ID: 41783B.D Date Extracted: 09/29/97

Sample Volume: 1000 (ML) Date Analyzed: 10/04/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

Number TICs found: 2

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. ug/L	Q
1. 000104-76-7	1-Hexanol, 2-ethyl-	6.69	11	JN
2. 000112-34-5	Ethanol, 2-(2-butoxyethoxy)-	9.86	41	JN

1LCB

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EAZN8

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EAEA1

Lab Sample ID: EAZN8 Date Received: 09/25/97

Lab File ID: 41781B.D Date Extracted: 09/29/97

Sample Volume: 1000 (ML) Date Analyzed: 10/04/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

M4S

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
108-95-2	Phenol	5	U
111-44-4	bis(2-Chloroethyl) ether	96	E
95-57-8	2-Chlorophenol	5	U
95-48-7	2-Methylphenol	5	U
108-60-1	2,2'-oxybis-(1-Chloropropane)	5	U
106-44-5	4-Methylphenol	5	U
621-64-7	n-Nitroso-di-n-propylamine	5	U
67-72-1	Hexachloroethane	5	U
98-95-3	Nitrobenzene	5	U
78-59-1	Isophorone	5	U
88-75-5	2-Nitrophenol	5	U
105-67-9	2,4-Dimethylphenol	5	U
111-91-1	bis(2-chloroethoxy) methane	5	U
120-83-2	2,4-Dichlorophenol	5	U
91-20-3	Naphthalene	5	U
106-47-8	4-Chloroaniline	5	U
87-68-3	Hexachlorobutadiene	5	U
59-50-7	4-Chloro-3-methylphenol	5	U
91-57-6	2-Methylnaphthalene	5	U
77-47-4	Hexachlorocyclopentadiene	5	U
88-06-2	2,4,6-Trichlorophenol	5	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronapthalene	5	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5	U
208-96-8	Acenapththylene	5	U
606-20-2	2,6-Dinitrotoluene	5	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5	U
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5	U

1LCC

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EAZN8

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EAEA1

Lab Sample ID: EAZN8 Date Received: 09/25/97

Lab File ID: 41781B.D Date Extracted: 09/29/97

Sample Volume: 1000 (ML) Date Analyzed: 10/04/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
121-14-2	2,4-Dinitrotoluene	5	U
84-66-2	Diethylphthalate	5	U
7005-72-3	4-Chlorophenyl phenyl ether	5	U
86-73-7	Fluorene	5	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	n-Nitrosodiphenylamine(1)	5	U
101-55-3	4-Bromophenyl phenyl ether	5	U
118-74-1	Hexachlorobenzene	5	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	5	U
120-12-7	Anthracene	5	U
84-74-2	Di-n-butylphthalate	5	U
206-44-0	Fluoranthene	5	U
129-00-0	Pyrene	5	U
85-68-7	Butyl benzyl phthalate	5	U
91-94-1	3,3'-Dichlorobenzidine	5	U
56-55-3	Benzo(a) anthracene	5	U
218-01-9	Chrysene	5	U
117-81-7	bis(2-Ethylhexyl) phthalate	5	U
117-84-0	Di-n-octylphthalate	5	U
205-99-2	Benzo(b) fluoranthene	5	U
207-08-9	Benzo(k) fluoranthene	5	U
50-32-8	Benzo(a) pyrene	5	U
193-39-5	Indeno (1,2,3-cd) pyrene	5	U
53-70-3	Dibenz (ah) anthracene	5	U
191-24-2	Benzo (ghi) perylene	5	U

(1) - Cannot be separated from Diphenylamine

1LCF

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EAZN8

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: SDG No.: EAEA1

Lab Sample ID: EAZN8 Date Received: 09/25/97

Lab File ID: 41781B.D Date Extracted: 09/29/97

Sample Volume: 1000 (ML) Date Analyzed: 10/04/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

Number TICs found: 15

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. ug/L	Q
1. 000112-36-7	Ethane, 1,1'-oxybis[2-ethoxy-]	7.86	15	JN
2. 003302-10-1	Hexanoic acid, 3,5,5-trimethyl-	9.80	11	JN
3.	Unknown	11.29	13	J
4.	Unknown	11.54	13	J
5.	Unknown PNA	11.78	14	J
6. 000085-44-9	Phthalic anhydride	12.12	24	JN
7.	Unknown Ketone	13.19	12	J
8.	Unknown	13.50	19	J
9.	Unknown	14.31	14	J
10.	Unknown	15.44	13	J
11.	Unknown	15.59	20	J
12. 000101-10-0	Propanoic acid, 2-(3-chlorophenoxy)-	16.82	25	JN
13.	Unknown	19.75	11	J
14. 000115-44-6	Talbutal	20.07	28	JN
15. 010544-50-0	Sulfur, mol. (S8)	22.85	40	JN

1LCB

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EAZN8DL

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EAEA1

Lab Sample ID: EAZN8DL Date Received: 09/25/97

Lab File ID: 41781DL.D Date Extracted: 09/29/97

Sample Volume: 1000 (ML) Date Analyzed: 10/05/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 2.0

Injection Volume: 1.0 (uL)

M4-5 dilution

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl) ether	108	D
95-57-8	2-Chlorophenol	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis-(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	n-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-chloroethoxy) methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	40	U
91-58-7	2-Chloronapthalene	10	U
88-74-4	2-Nitroaniline	40	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenapththylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	40	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	40	U
100-02-7	4-Nitrophenol	40	U
132-64-9	Dibenzofuran	10	U

1LCC

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EAZN8DL

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: SDG No.: EAEA1

Lab Sample ID: EAZN8DL Date Received: 09/25/97

Lab File ID: 41781DL.D Date Extracted: 09/29/97

Sample Volume: 1000 (ML) Date Analyzed: 10/05/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 2.0

Injection Volume: 1.0 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl phenyl ether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	40	U
534-52-1	4,6-Dinitro-2-methylphenol	40	U
86-30-6	n-Nitrosodiphenylamine(1)	10	U
101-55-3	4-Bromophenyl phenyl ether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	40	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butyl benzyl phthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a) anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl) phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b) fluoranthene	10	U
207-08-9	Benzo(k) fluoranthene	10	U
50-32-8	Benzo(a) pyrene	10	U
193-39-5	Indeno (1,2,3-cd) pyrene	10	U
53-70-3	Dibenz (ah) anthracene	10	U
191-24-2	Benzo (ghi) perylene	10	U

(1) - Cannot be separated from Diphenylamine

1LCF

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EAZN8DL

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EAEA1

Lab Sample ID: EAZN8DL Date Received: 09/25/97

Lab File ID: 41781DL.D Date Extracted: 09/29/97

Sample Volume: 1000 (ML) Date Analyzed: 10/05/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 2.0

Injection Volume: 1.0 (uL)

Number TICs found: 8

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. ug/L	Q
1. 010143-32-5	2-Propanol, 1-(2-ethoxypropoxy)-	6.17	34	JND
2. 000116-02-9	Cyclohexanol, 3,3,5-trimethyl-	7.29	21	JND
3.	Unknown	8.24	21	JD
4.	Unknown	11.17	37	JD
5.	Unknown PNA	11.75	27	JD
6. 000085-44-9	Phthalic anhydride	12.04	34	JND
7. 000309-43-3	Secobarbital Sodium	19.98	33	JND
8. 010544-50-0	Sulfur, mol. (S8)	22.79	52	JND

1LCB

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EWW01

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: SDG No.: EAEA1

Lab Sample ID: EWW01 Date Received: 09/25/97

Lab File ID: 41786B.D Date Extracted: 09/29/97

Sample Volume: 1000 (ML) Date Analyzed: 10/04/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

EB01

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
108-95-2	Phenol	5	U
111-44-4	bis(2-Chloroethyl) ether	5	U
95-57-8	2-Chlorophenol	5	U
95-48-7	2-Methylphenol	5	U
108-60-1	2,2'-oxybis-(1-Chloropropane)	5	U
106-44-5	4-Methylphenol	5	U
621-64-7	n-Nitroso-di-n-propylamine	5	U
67-72-1	Hexachloroethane	5	U
98-95-3	Nitrobenzene	5	U
78-59-1	Isophorone	5	U
88-75-5	2-Nitrophenol	5	U
105-67-9	2,4-Dimethylphenol	5	U
111-91-1	bis(2-chloroethoxy) methane	5	U
120-83-2	2,4-Dichlorophenol	5	U
91-20-3	Naphthalene	5	U
106-47-8	4-Chloroaniline	5	U
87-68-3	Hexachlorobutadiene	5	U
59-50-7	4-Chloro-3-methylphenol	5	U
91-57-6	2-Methylnaphthalene	5	U
77-47-4	Hexachlorocyclopentadiene	5	U
88-06-2	2,4,6-Trichlorophenol	5	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronapthalene	5	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5	U
208-96-8	Acenapththylene	5	U
606-20-2	2,6-Dinitrotoluene	5	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5	U
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5	U

1LCC

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EWW01

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EAEA1

Lab Sample ID: EWW01 Date Received: 09/25/97

Lab File ID: 41786B.D Date Extracted: 09/29/97

Sample Volume: 1000 (ML) Date Analyzed: 10/04/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
121-14-2	2,4-Dinitrotoluene	5	U
84-66-2	Diethylphthalate	5	U
7005-72-3	4-Chlorophenyl phenyl ether	5	U
86-73-7	Fluorene	5	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	n-Nitrosodiphenylamine(1)	5	U
101-55-3	4-Bromophenyl phenyl ether	5	U
118-74-1	Hexachlorobenzene	5	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	5	U
120-12-7	Anthracene	5	U
84-74-2	Di-n-butylphthalate	5	U
206-44-0	Fluoranthene	5	U
129-00-0	Pyrene	5	U
85-68-7	Butyl benzyl phthalate	5	U
91-94-1	3,3'-Dichlorobenzidine	5	U
56-55-3	Benzo(a) anthracene	5	U
218-01-9	Chrysene	5	U
117-81-7	bis(2-Ethylhexyl) phthalate	5	U
117-84-0	Di-n-octylphthalate	5	U
205-99-2	Benzo(b) fluoranthene	5	U
207-08-9	Benzo(k) fluoranthene	5	U
50-32-8	Benzo(a) pyrene	5	U
193-39-5	Indeno (1,2,3-cd) pyrene	5	U
53-70-3	Dibenz (ah) anthracene	5	U
191-24-2	Benzo (ghi) perylene	5	U

(1) - Cannot be separated from Diphenylamine

1LCF

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EWW01

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EAEA1

Lab Sample ID: EWW01 Date Received: 09/25/97

Lab File ID: 41786B.D Date Extracted: 09/29/97

Sample Volume: 1000 (ML) Date Analyzed: 10/04/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. ug/L	Q

1LCB

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EWW02

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: SDG No.: EAEA1

Lab Sample ID: EWW02 Date Received: 09/25/97

Lab File ID: 41787B.D Date Extracted: 09/29/97

Sample Volume: 1000 (ML) Date Analyzed: 10/04/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

MWB

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
108-95-2	Phenol	9	
111-44-4	bis(2-Chloroethyl) ether	5	U
95-57-8	2-Chlorophenol	5	U
95-48-7	2-Methylphenol	5	U
108-60-1	2,2'-oxybis-(1-Chloropropane)	5	U
106-44-5	4-Methylphenol	5	U
621-64-7	n-Nitroso-di-n-propylamine	5	U
67-72-1	Hexachloroethane	5	U
98-95-3	Nitrobenzene	5	U
78-59-1	Isophorone	5	U
88-75-5	2-Nitrophenol	5	U
105-67-9	2,4-Dimethylphenol	5	U
111-91-1	bis(2-chloroethoxy) methane	5	U
120-83-2	2,4-Dichlorophenol	5	U
91-20-3	Naphthalene	5	U
106-47-8	4-Chloroaniline	5	U
87-68-3	Hexachlorobutadiene	5	U
59-50-7	4-Chloro-3-methylphenol	5	U
91-57-6	2-Methylnaphthalene	5	U
77-47-4	Hexachlorocyclopentadiene	5	U
88-06-2	2,4,6-Trichlorophenol	5	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronapthalene	5	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5	U
208-96-8	Acenapththylene	5	U
606-20-2	2,6-Dinitrotoluene	5	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5	U
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5	U

1LCC

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EWW02

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: SDG No.: EAEA1

Lab Sample ID: EWW02 Date Received: 09/25/97

Lab File ID: 41787B.D Date Extracted: 09/29/97

Sample Volume: 1000 (ML) Date Analyzed: 10/04/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
121-14-2	2,4-Dinitrotoluene	5	U
84-66-2	Diethylphthalate	5	U
7005-72-3	4-Chlorophenyl phenyl ether	5	U
86-73-7	Fluorene	5	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	n-Nitrosodiphenylamine(1)	5	U
101-55-3	4-Bromophenyl phenyl ether	5	U
118-74-1	Hexachlorobenzene	5	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	5	U
120-12-7	Anthracene	5	U
84-74-2	Di-n-butylphthalate	5	U
206-44-0	Fluoranthene	5	U
129-00-0	Pyrene	5	U
85-68-7	Butyl benzyl phthalate	5	U
91-94-1	3,3'-Dichlorobenzidine	5	U
56-55-3	Benzo(a) anthracene	5	U
218-01-9	Chrysene	5	U
117-81-7	bis(2-Ethylhexyl) phthalate	5	U
117-84-0	Di-n-octylphthalate	5	U
205-99-2	Benzo(b) fluoranthene	5	U
207-08-9	Benzo(k) fluoranthene	5	U
50-32-8	Benzo(a) pyrene	5	U
193-39-5	Indeno (1,2,3-cd) pyrene	5	U
53-70-3	Dibenz (ah) anthracene	5	U
191-24-2	Benzo (ghi) perylene	5	U

(1) - Cannot be separated from Diphenylamine

1LCF

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TENTATIVELY IDENTIFIED COMPOUNDS

EWW02

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: SDG No.: EAEA1

Lab Sample ID: EWW02 Date Received: 09/25/97

Lab File ID: 41787B.D Date Extracted: 09/29/97

Sample Volume: 1000 (ML) Date Analyzed: 10/04/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. ug/L	Q

1LCB

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EWW03

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: SDG No.: EAEA1

Lab Sample ID: EWW03 Date Received: 09/25/97

Lab File ID: 41788B.D Date Extracted: 09/29/97

Sample Volume: 1000 (ML) Date Analyzed: 10/05/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

MW10C

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
108-95-2	Phenol	20	
111-44-4	bis(2-Chloroethyl) ether	5	U
95-57-8	2-Chlorophenol	5	U
95-48-7	2-Methylphenol	5	U
108-60-1	2,2'-oxybis-(1-Chloropropane)	5	U
106-44-5	4-Methylphenol	5	U
621-64-7	n-Nitroso-di-n-propylamine	5	U
67-72-1	Hexachloroethane	5	U
98-95-3	Nitrobenzene	5	U
78-59-1	Isophorone	5	U
88-75-5	2-Nitrophenol	5	U
105-67-9	2,4-Dimethylphenol	5	U
111-91-1	bis(2-chloroethoxy) methane	5	U
120-83-2	2,4-Dichlorophenol	5	U
91-20-3	Naphthalene	5	U
106-47-8	4-Chloroaniline	5	U
87-68-3	Hexachlorobutadiene	5	U
59-50-7	4-Chloro-3-methylphenol	5	U
91-57-6	2-Methylnaphthalene	5	U
77-47-4	Hexachlorocyclopentadiene	5	U
88-06-2	2,4,6-Trichlorophenol	5	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronapthalene	5	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5	U
208-96-8	Acenapththylene	5	U
606-20-2	2,6-Dinitrotoluene	5	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5	U
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5	U

1LCC

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EWW03

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: SDG No.: EAEA1

Lab Sample ID: EWW03 Date Received: 09/25/97

Lab File ID: 41788B.D Date Extracted: 09/29/97

Sample Volume: 1000 (ML) Date Analyzed: 10/05/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
121-14-2	2,4-Dinitrotoluene	5	U
84-66-2	Diethylphthalate	5	U
7005-72-3	4-Chlorophenyl phenyl ether	5	U
86-73-7	Fluorene	5	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	n-Nitrosodiphenylamine(1)	5	U
101-55-3	4-Bromophenyl phenyl ether	5	U
118-74-1	Hexachlorobenzene	5	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	5	U
120-12-7	Anthracene	5	U
84-74-2	Di-n-butylphthalate	5	U
206-44-0	Fluoranthene	5	U
129-00-0	Pyrene	5	U
85-68-7	Butyl benzyl phthalate	5	U
91-94-1	3,3'-Dichlorobenzidine	5	U
56-55-3	Benzo(a) anthracene	5	U
218-01-9	Chrysene	5	U
117-81-7	bis(2-Ethylhexyl) phthalate	~~2~~	~~J~~
117-84-0	Di-n-octylphthalate	5	U
205-99-2	Benzo(b) fluoranthene	5	U
207-08-9	Benzo(k) fluoranthene	5	U
50-32-8	Benzo(a) pyrene	5	U
193-39-5	Indeno (1,2,3-cd) pyrene	5	U
53-70-3	Dibenz (ah) anthracene	5	U
191-24-2	Benzo (ghi) perylene	5	U

(1) - Cannot be separated from Diphenylamine

SU 1-8-98 SRM Found in EB02

FORM I LCSV-2 OLC02.0

1LCF

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EWW03

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EAEA1

Lab Sample ID: EWW03 Date Received: 09/25/97

Lab File ID: 41788B.D Date Extracted: 09/29/97

Sample Volume: 1000 (ML) Date Analyzed: 10/05/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

Number TICs found: 5

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. ug/L	Q
1. 000286-20-4	7-Oxabicyclo[4.1.0]heptane	3.20	12	JN
2.	Unknown	6.13	22	J
3.	Unknown	8.90	18	J
4.	Unknown	9.38	30	J
5.	Unknown	11.76	14	J

1LCB

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EYB98

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: SDG No.: EAEA1

Lab Sample ID: EYB98 Date Received: 09/24/97

Lab File ID: 41543B.D Date Extracted: 09/25/97

Sample Volume: 1000 (ML) Date Analyzed: 10/04/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

MW15

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
108-95-2	Phenol	39	
111-44-4	bis(2-Chloroethyl) ether	5	U
95-57-8	2-Chlorophenol	5	U
95-48-7	2-Methylphenol	5	U
108-60-1	2,2'-oxybis-(1-Chloropropane)	5	U
106-44-5	4-Methylphenol	5	U
621-64-7	n-Nitroso-di-n-propylamine	5	U
67-72-1	Hexachloroethane	5	U
98-95-3	Nitrobenzene	5	U
78-59-1	Isophorone	5	U
88-75-5	2-Nitrophenol	5	U
105-67-9	2,4-Dimethylphenol	5	U
111-91-1	bis(2-chloroethoxy) methane	5	U
120-83-2	2,4-Dichlorophenol	5	U
91-20-3	Naphthalene	5	U
106-47-8	4-Chloroaniline	5	U
87-68-3	Hexachlorobutadiene	5	U
59-50-7	4-Chloro-3-methylphenol	5	U
91-57-6	2-Methylnaphthalene	5	U
77-47-4	Hexachlorocyclopentadiene	5	U
88-06-2	2,4,6-Trichlorophenol	5	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronapthalene	5	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5	U
208-96-8	Acenapththylene	5	U
606-20-2	2,6-Dinitrotoluene	5	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5	U
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5	U

1LCC

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EYB98

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: SDG No.: EAEA1

Lab Sample ID: EYB98 Date Received: 09/24/97

Lab File ID: 41543B.D Date Extracted: 09/25/97

Sample Volume: 1000 (ML) Date Analyzed: 10/04/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
121-14-2	2,4-Dinitrotoluene	5	U
84-66-2	Diethylphthalate	5	U
7005-72-3	4-Chlorophenyl phenyl ether	5	U
86-73-7	Fluorene	5	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	n-Nitrosodiphenylamine(1)	5	U
101-55-3	4-Bromophenyl phenyl ether	5	U
118-74-1	Hexachlorobenzene	5	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	5	U
120-12-7	Anthracene	5	U
84-74-2	Di-n-butylphthalate	5	U
206-44-0	Fluoranthene	5	U
129-00-0	Pyrene	5	U
85-68-7	Butyl benzyl phthalate	5	U
91-94-1	3,3'-Dichlorobenzidine	5	U
56-55-3	Benzo(a) anthracene	5	U
218-01-9	Chrysene	5	U
117-81-7	bis(2-Ethylhexyl) phthalate	12	
117-84-0	Di-n-octylphthalate	5	U
205-99-2	Benzo(b) fluoranthene	5	U
207-08-9	Benzo(k) fluoranthene	5	U
50-32-8	Benzo(a) pyrene	5	U
193-39-5	Indeno (1,2,3-cd) pyrene	5	U
53-70-3	Dibenz (ah) anthracene	5	U
191-24-2	Benzo (ghi) perylene	5	U

(1) - Cannot be separated from Diphenylamine

1LCF

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EYB98

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EAEA1

Lab Sample ID: EYB98 Date Received: 09/24/97

Lab File ID: 41543B.D Date Extracted: 09/25/97

Sample Volume: 1000 (ML) Date Analyzed: 10/04/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

Number TICs found: 5

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. ug/L	Q
1. 000999-65-5	Butane, 1-(1-methylpropoxy)-	9.84	30	JN
2.	Unknown	10.11	10	J
3.	Unknown	11.55	11	J
4.	Unknown	13.87	24	J
5. 000098-73-7	Benzoic acid, p-tert-butyl-	15.36	15	JN

2LCC
LOW CONC. WATER PESTICIDE SURROGATE RECOVERY

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: SDG No.: EAEA1

GC Column(1): DB-1701 ID: 0.32 (mm) GC Column(2): DB-17 ID: 0.32 (mm)

	EPA SAMPLE NO.	TCX(1) %REC #	TCX(2) %REC #	DCB(1) %REC #	DCB(2) %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	EADX1	95	95	55	50			0
02	EADX2	150	100	42	38			0
03	EAEAO	90	75	38	36			0
04	EAEA1	75	100	48	46			0
05	EAZN6	130	85	40	36			0
06	EAZN7	110	75	42	38			0
07	EAZN8	425*	145	48	46			1
08	EAZN8RE	405*	150	55	50			1
09	EWW01	95	90	40	36			0
10	EWW02	100	90	70	65			0
11	EWW03	440*	100	37	34			1
12	EWW03RE	430*	95	36	32			1
13	EYB98	115	95	40	36			0
14	PBLKJ5	75	75	70	70			0
15	PBKLJ7	150	140	110	100			0
16	PLCSG4	80	75	75	70			0
17								
18								
19								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								

QC LIMITS

		%REC
S1 TCX	= Tetrachloro-m-xylene	(30-150)
S2 DCB	= Decachlorobiphenyl	(30-150)

Column to be used to flag recovery values.
* Values outside of QC limits.
D Surrogate diluted out.

3LCC

LOW CONC. WATER PESTICIDE LAB CONTROL SAMPLE RECOVERY

EPA SAMPLE NO.

PLCSG4

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: SDG No.: EAEA1

Lab Sample ID: LCS092697 LCS Lot No.: A006181

LCS Aliquot: 1000 (uL) Date Extracted: 09/26/97

Concentrated Extract Volume: 2000(uL) Date Analyzed: 09/30/97

Injection Volume: 1 (uL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) Y

Instrument ID(1): 3400C GC Column(1):DB-1701 ID:0.32 (mm)

COMPOUND	AMOUNT ADDED (ng)	AMOUNT RECOVERED (ng)	%REC #	QC LIMITS
gamma-BHC (Lindane)	0.050	0.052	104	50-120
Heptachlor epoxide	0.050	0.044	88	50-150
Dieldrin	0.10	0.095	95	30-130
4,4'-DDE	0.10	0.11	110	50-150
Endrin	0.10	0.12	120	50-120
Endosulfan sulfate	0.10	0.082	82	50-120
gamma-Chlordane	0.050	0.055	110	30-130

Instrument ID(2): 3400D GC Column(2):DB-17 ID:0.32 (mm)

COMPOUND	AMOUNT ADDED (ng)	AMOUNT RECOVERED (ng)	%REC #	QC LIMITS
gamma-BHC (Lindane)	0.050	0.048	96	50-120
Heptachlor epoxide	0.050	0.043	86	50-150
Dieldrin	0.10	0.090	90	30-130
4,4'-DDE	0.10	0.086	86	50-150
Endrin	0.10	0.10	100	50-120
Endosulfan sulfate	0.10	0.078	78	50-120
gamma-Chlordane	0.050	0.049	98	30-130

Column to be used to flag LCS recovery with an asterisk.
* Values outside of QC limits.
LCS Recovery: 0 outside limits out of 14 total.

COMMENTS:

FORM III LCP OLC02.0

4LCC

LOW CONC. WATER PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PBLKJ5

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: SDG No.: EAEA1

Date Extracted: 09/26/97 Lab Sample ID: MB092697

Date Analyzed (1): 09/30/97 Date Analyzed (2): 09/30/97

Time Analyzed (1): 1532 Time Analyzed (2): 1532

Instrument ID (1): 3400C Instrument ID (2): 3400D

GC Column (1): DB-1701 ID: 0.32(mm) GC Column (2): DB-17 ID: 0.32(mm)

Sulfur Cleanup (Y/N) Y Extraction:(SepF/Cont) SEPF

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND LCS:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	EAEAO	41784	09/30/97	09/30/97
02	EAEA1	41542	09/30/97	09/30/97
03	EAZN6	41782	09/30/97	09/30/97
04	EAZN7	41783	09/30/97	09/30/97
05	EAZN8	41781	09/30/97	09/30/97
06	EAZN8RE	41781RE	10/01/97	10/01/97
07	EWW01	41786	09/30/97	09/30/97
08	EWW02	41787	09/30/97	09/30/97
09	EWW03	41788	09/30/97	09/30/97
10	EWW03RE	41788RE	10/02/97	10/02/97
11	EYB98	41543	10/01/97	10/01/97
12	PLCSG4	LCS092697	09/30/97	09/30/97
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

COMMENTS:

4LCC

LOW CONC. WATER PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PBKLJ7

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: SDG No.: EAEA1

Date Extracted: 09/29/97 Lab Sample ID: MB092997

Date Analyzed (1): 09/30/97 Date Analyzed (2): 09/30/97

Time Analyzed (1): 2305 Time Analyzed (2): 1532

Instrument ID (1): 3400C Instrument ID (2): 3400D

GC Column (1): DB-1701 ID: 0.32(mm) GC Column (2): DB-17 ID: 0.32(mm)

Sulfur Cleanup (Y/N) Y Extraction:(SepF/Cont) SEPF

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND LCS:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	EADX1	41959	09/30/97	09/30/97
02	EADX2	41960	10/01/97	10/01/97
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

COMMENTS:

1LCD

LOW CONC. WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLKJ5

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: SDG No.: EAEA1

Lab Sample ID: MB092697 Date Received:

Sample Volume: 1000.00 (mL) Date Extracted: 09/26/97

Concentrated Extract Volume: 2000(uL) Date Analyzed: 09/30/97

Injection Volume: 1 (uL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) Y Extraction: (SepF/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U
8001-35-2	Toxaphene	1.0	U

1LCD

LOW CONC. WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBKLJ7

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: SDG No.: EAEA1

Lab Sample ID: MB092997 Date Received:

Sample Volume: 1000.00 (mL) Date Extracted: 09/29/97

Concentrated Extract Volume: 2000(uL) Date Analyzed: 09/30/97

Injection Volume: 1 (uL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) Y Extraction: (SepF/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U
8001-35-2	Toxaphene	1.0	U

1LCD

LOW CONC. WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PLCSG4(1)

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: SDG No.: EAEA1

Lab Sample ID: LCS092697 Date Received:

Sample Volume: 1000.00 (mL) Date Extracted: 09/26/97

Concentrated Extract Volume: 2000(uL) Date Analyzed: 09/30/97

Injection Volume: 1 (uL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) Y Extraction: (SepF/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.10	
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.088	
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.19	
72-55-9	4,4'-DDE	0.21	
72-20-8	Endrin	0.23	
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.16	
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.11	
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U
8001-35-2	Toxaphene	1.0	U

1LCD

LOW CONC. WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PLCSG4(2)

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: SDG No.: EAEA1

Lab Sample ID: LCS092697 Date Received:

Sample Volume: 1000.00 (mL) Date Extracted: 09/26/97

Concentrated Extract Volume: 2000(uL) Date Analyzed: 09/30/97

Injection Volume: 1 (uL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) Y Extraction: (SepF/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.095	
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.086	
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.18	
72-55-9	4,4'-DDE	0.17	
72-20-8	Endrin	0.21	
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.16	
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.098	
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U
8001-35-2	Toxaphene	1.0	U

1LCD

LOW CONC. WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EADX1

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: SDG No.: EAEA1

Lab Sample ID: 41959 Date Received: 09/26/97 MW38

Sample Volume: 1000.00 (mL) Date Extracted: 09/29/97

Concentrated Extract Volume: 2000(uL) Date Analyzed: 09/30/97

Injection Volume: 1 (uL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) Y Extraction: (SepF/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U
8001-35-2	Toxaphene	1.0	U

1LCD

LOW CONC. WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EADX2

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: SDG No.: EAEA1

Lab Sample ID: 41960 Date Received: 09/26/97

Sample Volume: 1000.00 (mL) Date Extracted: 09/29/97

Concentrated Extract Volume: 2000(uL) Date Analyzed: 10/01/97 MW23

Injection Volume: 1 (uL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) Y Extraction: (SepF/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U
8001-35-2	Toxaphene	1.0	U

1LCD

LOW CONC. WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EAEAO

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: SDG No.: EAEA1

Lab Sample ID: 41784 Date Received: 09/25/97

Sample Volume: 1000.00 (mL) Date Extracted: 09/26/97

Concentrated Extract Volume: 2000(uL) Date Analyzed: 09/30/97

Injection Volume: 1 (uL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) Y Extraction: (SepF/Cont) SEPF

1435

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U
8001-35-2	Toxaphene	1.0	U

1LCD

LOW CONC. WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EAEA1

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: SDG No.: EAEA1

Lab Sample ID: 41542 Date Received: 09/24/97

Sample Volume: 1000.00 (mL) Date Extracted: 09/26/97

Concentrated Extract Volume: 2000(uL) Date Analyzed: 09/30/97

Injection Volume: 1 (uL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) Y Extraction: (SepF/Cont) SEPF

M1S

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U
8001-35-2	Toxaphene	1.0	U

1LCD

LOW CONC. WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EAZN6

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: SDG No.: EAEA1

Lab Sample ID: 41782 Date Received: 09/25/97

Sample Volume: 1000.00 (mL) Date Extracted: 09/26/97 M4D

Concentrated Extract Volume: 2000 (uL) Date Analyzed: 09/30/97

Injection Volume: 1 (uL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) Y Extraction: (SepF/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U
8001-35-2	Toxaphene	1.0	U

1LCD

LOW CONC. WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EAZN7

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: SDG No.: EAEA1

Lab Sample ID: 41783 Date Received: 09/25/97 M4D

Sample Volume: 1000.00 (mL) Date Extracted: 09/26/97 duplicate

Concentrated Extract Volume: 2000(uL) Date Analyzed: 09/30/97

Injection Volume: 1 (uL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) Y Extraction: (SepF/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U
8001-35-2	Toxaphene	1.0	U

1LCD

LOW CONC. WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EAZN8

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: SDG No.: EAEA1

Lab Sample ID: 41781 Date Received: 09/25/97

Sample Volume: 1000.00 (mL) Date Extracted: 09/26/97

Concentrated Extract Volume: 2000(uL) Date Analyzed: 09/30/97

Injection Volume: 1 (uL) Dilution Factor: 1.0 M4S

Sulfur Cleanup: (Y/N) Y Extraction: (SepF/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.0094	J
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U
8001-35-2	Toxaphene	1.0	U

1LCD

LOW CONC. WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EAZN8RE

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: SDG No.: EAEA1

Lab Sample ID: 41781RE Date Received: 09/25/97

Sample Volume: 1000.00 (mL) Date Extracted: 09/26/97

Concentrated Extract Volume: 2000(uL) Date Analyzed: 10/01/97 M4S

Injection Volume: 1 (uL) Dilution Factor: 1.0 re-run

Sulfur Cleanup: (Y/N) Y Extraction: (SepF/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.011	JP
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U
8001-35-2	Toxaphene	1.0	U

1LCD

LOW CONC. WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EWW01

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: SDG No.: EAEA1

Lab Sample ID: 41786 Date Received: 09/25/97

Sample Volume: 1000.00 (mL) Date Extracted: 09/26/97 EB01

Concentrated Extract Volume: 2000(uL) Date Analyzed: 09/30/97

Injection Volume: 1 (uL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) Y Extraction: (SepF/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U
8001-35-2	Toxaphene	1.0	U

1LCD

LOW CONC. WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EWW02

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: SDG No.: EAEA1

Lab Sample ID: 41787 Date Received: 09/25/97

Sample Volume: 1000.00 (mL) Date Extracted: 09/26/97

Concentrated Extract Volume: 2000(uL) Date Analyzed: 09/30/97 MW8

Injection Volume: 1 (uL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) Y Extraction: (SepF/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U
8001-35-2	Toxaphene	1.0	U

1LCD

LOW CONC. WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EWW03

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: SDG No.: EAEA1

Lab Sample ID: 41788 Date Received: 09/25/97

Sample Volume: 1000.00 (mL) Date Extracted: 09/26/97

Concentrated Extract Volume: 2000(uL) Date Analyzed: 09/30/97 MW10C

Injection Volume: 1 (uL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) Y Extraction: (SepF/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U
8001-35-2	Toxaphene	1.0	U

1LCD

LOW CONC. WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EWW03RE

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: SDG No.: EAEA1

Lab Sample ID: 41788RE Date Received: 09/25/97

Sample Volume: 1000.00 (mL) Date Extracted: 09/26/97 MW10C

Concentrated Extract Volume: 2000(uL) Date Analyzed: 10/02/97 rerun

Injection Volume: 1 (uL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) Y Extraction: (SepF/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U
8001-35-2	Toxaphene	1.0	U

1LCD

LOW CONC. WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EYB98

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: SDG No.: EAEA1

Lab Sample ID: 41543 Date Received: 09/24/97

Sample Volume: 1000.00 (mL) Date Extracted: 09/26/97

Concentrated Extract Volume: 2000(uL) Date Analyzed: 10/01/97

Injection Volume: 1 (uL) Dilution Factor: 1.0

MW15

Sulfur Cleanup: (Y/N) Y Extraction: (SepF/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U
8001-35-2	Toxaphene	1.0	U

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

ESD Central Regional Laboratory
Data Tracking Form for Contract Samples

Data Set No: _____ CERCLIS No: IN

Case No: 25704 Site Name Location: American Chem SVCS

Contractor or EPA Lab: Encotec Data User: BH

No. of Samples: 15 Date Sampled or Data Received: 10-20-97

Have Chain-of-Custody records been received? Yes ✓ No ___
Have traffic reports or packing lists been received? Yes ✓ No ___
If no, are traffic report or packing list numbers written on the chain-of-custody record? Yes ✓ No ___
If no, which traffic report or packing list numbers are missing?

_____ _____ _____ _____

_____ _____ _____ _____

Are basic data forms in? Yes ✓ No ___
No of samples claimed: 15 No. of samples received: 15

Received by: Lynette Burnett Date: 10-20-97

Received by LSSS: Lynette Burnett Date: 10-20-97

Review started: 10-27-97 Reviewer Signature: M Kennedy

Total time spent on review: 13 Date review completed: 10-29-97

Copied by: Lynette Burnett Date: 11-6-97

Mailed to user by: Lynette Burnett Date: 11-6-97

DATA USER:
Please fill in the blanks below and return this form to:
Sylvia Griffen, Data mgmt. Coordinator, Region V, 5SCRL

Data received by: _____ Date: _____

Data review received by: _____ Date: _____

Inorganic Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK
Organic Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK
Dioxin Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK
SAS Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK

PROBLEMS: Please indicate reasons why data are not suitable for your uses.

_____

_____

Received by Data Mgmt. Coordinator for Files. Data: _____

Region 5 Transmittal Form

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE:

SUBJECT: Review of Region V CLP Data
Received for Review on Oct 29, 1997

FROM: Stephen L. Ostrodka, Chief (HSRL-5J) for Steve Ostrodka Richard L Byrne 11/17/97
Superfund Technical Support Section

TO: Data User: BTV

We have reviewed the data for the following case:

SITE NAME: American Chem SVCS (IN)

CASE NUMBER: 25704 SDG NUMBER: EADP9

Number and Type of Samples: 14 (Water)

Sample Numbers: EADP9 EADQ0-7 EADS3-5 EADZ2-3

Laboratory: Encotec Hrs. for Review: 11+1.5 wh

Following are our findings:

the data is usable and acceptable with the qualifications described in the attached narrative.
Richard L Byrne

cc: Regional TPO
Cecilia ~~Luckett~~ MOORE
SM-5J

NARRATIVE

Contractor: ENCOTEC Case: 25704
Site: American Chemical Services (IN) SDG: EADP9

This data case consists of 14 low concentration water samples numbered EADP9, EADQ0, EADQ1, EADQ2, EADQ3, EADQ4, EADQ5, EADQ6, EADQ7, EADS3, EADS4, EADS5, EADZ2 and EADZ3. The samples were collected on September 29, October 1 and 2, 1997 and received by the laboratory on October 2 and 3, 1997. The samples were analyzed for the volatiles, semi-volatiles and pesticide/PCB organic analytes. The samples were analyzed according to CLP Low Concentration Water (OLCO2.1).

The VOA analysis were performed within the technical holding time of 14 days after the samples were received, for preserved water samples; therefore, the results are acceptable. All semivolatile and pesticide samples were extracted within the 7 day holding time for water samples, with the exception of SVOA samples EADQ2RE, EADQ3RE, EADQ4RE, EADQ5RE. EADQ6RE and EADQ7RE, which were extracted on the eighth day after sample collection. Positive semi-volatile results for samples EADQ2RE, EADQ3RE, EADQ4RE, EADQ5RE. EADQ6RE and EADQ7RE should be flagged estimated "J", and non-detects are flagged "UJ" estimated. The extracts were analyzed within the 40 day hold time; therefore, the results are acceptable.

The reviewer's narrative and data qualifiers are noted in the following pages.

Reviewed by: T. Sedlacek Lockheed-Martin ESAT
Date: November 4, 1997

Contractor: ENCOTEC Case: 25704
Site: American Chemical Services (IN) SDG: EADP9

1. HOLDING TIMES

This data case consists of 14 low concentration water samples numbered EADP9, EADQ0, EADQ1, EADQ2, EADQ3, EADQ4, EADQ5, EADQ6, EADQ7, EADS3, EADS4, EADS5, EADZ2 and EADZ3. The samples were collected on September 29, October 1 and 2, 1997 and received by the laboratory on October 2 and 3, 1997. The samples were analyzed for the volatiles, semi-volatiles and pesticide/PCB organic analytes. The samples were analyzed according to CLP Low Concentration Water (OLCO2.1).

The VOA analysis were performed within the technical holding time of 14 days after the samples were received, for preserved water samples; therefore, the results are acceptable. All semivolatile and pesticide samples were extracted within the 7 day holding time for water samples, with the exception of SVOA samples EADQ2RE, EADQ3RE, EADQ4RE, EADQ5RE. EADQ6RE and EADQ7RE, which were extracted on the eighth day after sample collection. Positive semi-volatile results for samples EADQ2RE, EADQ3RE, EADQ4RE, EADQ5RE. EADQ6RE and EADQ7RE should be flagged estimated "J", and non-detects are flagged "UJ" estimated. The extracts were analyzed within the 40 day hold time; therefore, the results are acceptable.

2. GC/MS TUNING

All GC/MS tuning complied with the mass list and ion abundance criteria for BFB, and all samples were analyzed within the 12 hour periods for instrument performance checks.

All GC/MS tuning complied with the mass list and ion abundance criteria for DFTPP, and all samples were analyzed within the 12 hour periods for instrument performance checks.

GC resolution Check Mixtures met the 60% resolution criteria. Endrin and DDT degradation checks using the PEM Mix on DB17 and DB1701 columns were <20% and the combined total <30%; Therefore, the results are acceptable.

The Florisil Cartridge Check met the QC criteria; therefore, the results are acceptable.

3. CALIBRATION

Initial and continuing calibrations of the volatile, semivolatile and pesticide/PCBs were evaluated for the target compound list and outliers are recorded on the forms included as part of the narrative.

4. BLANKS

VOA:

The blanks VBLK12, VBLK13, and VBLK14 are the method blanks associated with this data set. The blank VBLK12 was found to contain Methylene Chloride at 0.8 μg/L and 1,2,4-Trichlorobenzene at 0.9 μg/L and no TICs. The presence of the

common laboratory contaminant Methylene Chloride in the samples associated with the blank VBLK12, is flagged as undetected (U) if the concentration in the sample is less than ten times the blank concentration. The presence of 1,2,4-Trichloro-benzene in the samples associated with VBLK12 is flagged non-detected (U) when the concentration is less than (<) five (5) times the blank result. The blank VBLK13 was found to contain the common laboratory contaminant Methylene Chloride at 0.8 μg/L. The presence of the common laboratory contaminant in the samples associated with the blank VBLK13, is flagged as undetected (U) if the concentration in the sample is less than ten times the blank concentration. There were no TICs found in this blank. The blank VBLK14 was found to contain the common laboratory contaminant Methylene Chloride at 0.8 μg/L. The presence of the common laboratory contaminant in the samples associated with the blank VBLK14, is flagged as undetected (U) if the concentration in the sample is less than ten times the blank concentration. There were no TICs found in this blank. The volatile holding blank VHBLK13 was found to contain Methylene Chloride at 1.0 μg/L, and no TICs. The volatile method blank summaries (Form IV VOA) lists the samples associated with each of these blanks.

SVOA:

The blanks SBLKJ8, SBLKK0 and SBLKK2 were the method blanks associated with this data case. The blanks were found to contain no TCLs and no TICs. The semivolatile method blank summary (Form IV SVOA) lists the samples associated with these blanks.

Pest/PCB:

The blanks PBLKJ9 and PBLKJ1 were the method blanks associated with this data case. The blanks were found to contain no TCLs and no TICs. There were six instrument blanks associated with this data set. No TCLs were detected in the instrument blanks and no samples are associated with the instrument blanks. The pesticide method blank summary (Form IV PEST) lists the samples associated with these blanks.

5. SYSTEM MONITORING COMPOUND AND SURROGATE RECOVERY

VOA:

The volatile water system monitoring compounds were within the QC limits for all samples; therefore the results are acceptable.

SVOA:

The semivolatile water surrogate compounds were within the QC limits for all samples, except for the S4 (Nitrophenol$_{d5}$.) recovery which was low in samples SLCSG7 and EADQ7 (1%) . Since only one surrogate from either the acid or the base fraction is outside the QC limits, no further action need be taken.

PEST:

The Pesticide/PCB water surrogate compounds were within the QC limits for all samples, therefore all results are acceptable.

6. LABORATORY CONTROL SAMPLE

VOA:

Laboratory Control Sample VLCS13 was run with this data set. The recoveries for all spiked compounds were within the QC limits.

SVOA:

Laboratory Control Samples SLCSG7, and SLCSG8 were run with this sample set. The recoveries for all spiked compounds were within the QC limits, with the exception of Benzo(a)pyrene which was low in sample SLCSG7.

PEST:

Laboratory Control Sample PLCSG6 was run with this sample data set. The recoveries for all spiked compounds were within the QC limits.

7. FIELD BLANKS AND FIELD DUPLICATES

None were part of this case.

8. INTERNAL STANDARDS

VOA:

No problems were reported.

SVOA:

No problems were reported.

9. COMPOUND IDENTIFICATION

After reviewing the mass spectra and chromatograms it appears that all VOA, and SVOA compounds were properly identified.

10. COMPOUND QUANTITATION AND REPORTED DETECTION LIMITS

Contractor: ENCOTEC Case: 25704
Site: American Chemical Services (IN) SDG: EADP9

All CRQLs were properly reported and properly adjusted in each of the dilution preformed in this case. All target compounds were properly reported. The lab did not perform rounding in accordance with the SOW.

11. SYSTEM PERFORMANCE

GC/MS and pesticide baselines indicated acceptable performance.

12. ADDITIONAL INFORMATION

The lab did not correctly round the results in SVOA samples EADP9, and EADP9DL.

In the SVOA fraction the results for 2,2-oxybis(1-Chloropropane) in sample EADP9 exceeded the calibration range, therefore, the results for 2,2-oxybis(1-Chloropropane) in sample EADP9DL should be used.

In the SVOA fraction the reviewer corrected the results for 2,2-oxybis(1-Chloropropane) sample EADP9DL to 120 μg/L.

The reviewer added sample EADQ7 to the FORM IV LCS page 15 for blank VBLK13, the lab failed to properly include it on the list.

Reviewed by: T. Sedlacek Lockheed-Martin ESAT
Date: November 4, 1997

CALIBRATION OUTLIERS
LOW CONCENTRATION WATER VOLATILE TCL COMPOUNDS
(Page 1 of 1)

CASE\SAS#: 25704
COLUMN: DB624
HEATED PURGE (Y/N): _____

LABORATORY: ENCOTEC
SITENAME: American Chemical Svcs

Instrument# 5971-007		Initial Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.		
Date/Time:		10/13/97 11:32														
	#	rf	%rsd	*	rf	%d	*	rf	%d	*	rf	%d	*	rf	%d	*
Chloromethane	0.01															
Bromomethane	0.10															
Vinyl chloride	0.10															
Chloroethane	0.01															
Methylene chloride	0.01	0.063	50.0													
Acetone	0.01	0.016	32.9	J												
Carbon disulfide	0.01															
1,1-Dichloroethene	0.10															
1,1-Dichloroethane	0.20															
cis-1,2-Dichloroethene	0.10															
trans-1,2-Dichloroethene	0.10															
Chloroform	0.20															
1,2-Dichloroethane	0.10															
2-Butanone	0.01															
Bromochloromethane	0.10															
1,1,1-Trichloroethane	0.10															
Carbon tetrachloride	0.10															
Bromodichloromethane	0.20															
1,2-Dichloropropane	0.01															
cis-1,3-Dichloropropene	0.20															
Trichloroethene	0.30															
Dibromochloromethane	0.10															
1,1,2-Trichloroethane	0.10															
Benzene	0.50															
tran-1,3-Dichloropropene	0.10															
Bromoform	0.10															
4-Methyl-2-pentanone	0.01															
2-Hexanone	0.01															
Tetrachloroethene	0.20															
1,1,2,2-Tetrachloroethane	0.50															
1,2-Dibromoethane	0.10															
Toluene	0.40															
Chlorobenzene	0.50															
Ethylbenzene	0.10															
Styrene	0.30															
Xylene (total)	0.30															
1,2-Dibromo-3-chloropropane	0.10															
1,3-Dichlorobenzene	0.60															
1,4-Dichlorobenzene	0.50															
1,2-Dichlorobenzene	0.40															
Bromofluorobenzene	0.40															

Samples affected: EADQIRE
EADSYRE
WHALK13

Reviewer's Init/Date: 7/13 11/6/97

J/R = All positive results are estimated "J" and non-detected results are unusable "R"

* = These flags should be applied to the analytes on the sample data sheets.
\# = Minimum Relative Response Factor

CALIBRATION OUTLIERS
LOW CONCENTRATION WATER VOLATILE TCL COMPOUNDS
(Page 1 of 1)

CASE\SAS#: 25704
COLUMN: DB624
HEATED PURGE (Y/N): _____

LABORATORY: ENCOTEC
SITENAME: American Chem Svcs

Instrument# 5971-007		Initial Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.		
Date/Time:		10/11/97 1005			10/11/97 23:47											
	#	rf	%rsd	*	rf	%d	*	rf	%d	*	rf	%d	*	rf	%d	*
Chloromethane	0.01															
Bromomethane	0.10															
Vinyl chloride	0.10															
Chloroethane	0.01															
Methylene chloride	0.01	0.027	36.6													
Acetone	0.01	0.026	30.1													
Carbon disulfide	0.01															
1,1-Dichloroethene	0.10															
1,1-Dichloroethane	0.20															
cis-1,2-Dichloroethene	0.10															
trans-1,2-Dichloroethene	0.10															
Chloroform	0.20															
1,2-Dichloroethane	0.10															
2-Butanone	0.01															
Bromochloromethane	0.10	0.277	25.5	J												
1,1,1-Trichloroethane	0.10															
Carbon tetrachloride	0.10	1.012			1.320	-30.3	J									
Bromodichloromethane	0.20															
1,2-Dichloropropane	0.01															
cis-1,3-Dichloropropene	0.20															
Trichloroethene	0.30															
Dibromochloromethane	0.10															
1,1,2-Trichloroethane	0.10															
Benzene	0.50															
tran-1,3-Dichloropropene	0.10															
Bromoform	0.10															
4-Methyl-2-pentanone	0.01															
2-Hexanone	0.01															
Tetrachloroethene	0.20															
1,1,2,2-Tetrachloroethane	0.50															
1,2-Dibromoethane	0.10															
Toluene	0.40															
Chlorobenzene	0.50															
Ethylbenzene	0.10															
Styrene	0.30															
Xylene (total)	0.30															
1,2-Dibromo-3-chloropropane	0.10															
1,3-Dichlorobenzene	0.60															
1,4-Dichlorobenzene	0.50															
1,2-Dichlorobenzene	0.40															
Bromofluorobenzene	0.40															

Samples affected:		
	EAD02	VBLK13 VLCS13
	EAE03	EAD02
	EAD09	EAD06
	EAD53	EAD05
	EAD80	EAD07
	EAD91	EAD03
	EAD54	EAD55
	VBLK12	EAD04

Reviewer's Init/Date: DB 11/6/97

J/R = All positive results are estimated "J" and non-detected results are unusable "R"

* = These flags should be applied to the analytes on the sample data sheets.

= Minimum Relative Response Factor

CALIBRATION OUTLIER
LOW CONCENTRATION WATER SEMIVOLATILE TCL COMPOUNDS
(Page 1 of 2)

CASE\SAS#: 25704
COLUMN:

LABORATORY: ENCOTEC
SITE NAME: American Chem Svcs

Instrument# 5971-024		Initial Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.		
Date/Time:		10/7/97 16:20			10/6/97 16:41											
	#	rf	%rsd	*	rf	%d	*	rf	%d	*	rf	%d	*	rf	%d	*
Phenol	0.80															
bis(2-chloroethyl) Ether	0.70															
2-Chlorophenol	0.70															
2-Methylphenol	0.70															
2,2'-Oxybis(1-chl-propane)	0.01															
4-Methylphenol	0.60															
N-nitroso-di-n-propylamine	0.50															
Hexachloroethane	0.30															
Nitrobenzene	0.20															
Isophorone	0.40															
2-Nitrophenol	0.10															
2,4-Dimethylphenol	0.20															
bis-(2-chloroethoxyl)methane	0.30															
2,4-Dichlorophenol	0.20															
1,2,4-Trichlorobenzene	0.20															
Naphthalene	0.70															
4-Chloroaniline	0.01															
Hexachlorobutadiene	0.01															
4-Chloro-3-methylphenol	0.20															
2-Methylnaphthalene	0.40															
Hexachlorocyclopentadiene	0.01															
2,4,6-Trichlorophenol	0.20															
2,4,5-Trichlorophenol	0.20															
2-Chloronaphthalene	0.80															
2-Nitroaniline	0.01															
Dimethyl phthlate	0.01															
Acenaphthylene	1.30															
2,6-Dinitrotoluene	0.20															
3-Nitroaniline	0.01															
Acenaphthene	0.30															
2,4-Dinitrophenol	0.01															
4-Nitrophenol	0.01															
Dibenzofuran	0.80															
2,4-Dinitrotoluene	0.20															

Affected samples:		
	SBLK58	SBLK80
	EAD22	SLCS97
	EAD23	EADQ2
	EADP9	EADQ6
	EADQ10	EADQ5
	EADQ1	EADQ7
		EADQ3
		EADQ4

Reviewer's Init/Date: JRS 11/6/97

J/R = All positive results are estimated "J" and non-detected results are unusable "R"

* = These flags should be applied to the analytes on the sample data sheets.
# = Minimum Relative Response Factor

CALIBRATION OUTLIER
LOW CONCENTRATION WATER SEMIVOLATILE TCL COMPOUNDS
(Page 2 of 2)

CASE\SAS#: 25704
COLUMN:

LABORATORY: ~~America~~ ENVIOTEC
SITE NAME: America Chem Svcs (TX)

Instrument# 5971-024		Initial Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.		
Date/Time:		10/7/97 1624			10/9/97 1641											
	#	rf	%rsd	*	rf	%d	*	rf	%d	*	rf	%d	*	rf	%d	*
Diethylphthalate	0.01															
4-Chlorophenyl-phenylether	0.40															
Fluorene	0.90															
4-Nitroaniline	0.01															
4,6-Dinitro-2-methylphenol	0.01															
N-nitrosodiphenylamine	0.01															
4-Bromophenyl-phenylether	0.10															
Hexachlorobenzene	0.10															
Pentachlorophenol	0.05															
Phenanthrene	0.70															
Anthracene	0.70															
Di-n-butylphthalate	0.01															
Fluoranthene	0.60															
Pyrene	0.60															
Butylbenzylphthalate	0.01															
3,3'-Dichlorobenzidine	0.01	0.195	29.0													
Benzo(a)anthracene	0.80															
Chrysene	0.70															
bis(2-Ethylhexyl)phthalate	0.01															
Di-n-octyl phthalate	0.01															
Benzo(b)fluoranthene	0.70															
Benzo(k)fluoranthene	0.70															
Benzo(a)pyrene	0.70															
Indeno(1,2,3-cd)pyrene	0.50															
Dibenz(a,h)anthrancene	0.40															
Benzo(g,h,i)perylene	0.50															
Nitrobenzene-d5	0.01															
2-Fluorobiphenyl	0.70															
Terphenyl-d14	0.50															
Phenol-d5	0.80															
2-Fluorophenol	0.60															
2,4,6-Tribromophenol	0.01															

Reviewer's Init/Date: JS 11/6/97

J/R = All positive results are estimated "J" and non-detected results are unusable "R"

* = These flags should be applied to the analytes on the sample data sheets.
# = Minimum Relative Response Factor

CALIBRATION OUTLIER
LOW CONCENTRATION WATER SEMIVOLATILE TCL COMPOUNDS
(Page 1 of 2)

CASE\SAS#: 25704
COLUMN:

LABORATORY: EWCOTEC
SITE NAME: American Chem Svcs (IN)

Instrument# 5971-009		Initial Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.		
Date/Time:		10/11/97 1325			10/17/97 11:19											
	#	rf	%rsd	*	rf	%d	*	rf	%d	*	rf	%d	*	rf	%d	*
Phenol	0.80															
bis(2-chloroethyl) Ether	0.70															
2-Chlorophenol	0.70															
2-Methylphenol	0.70															
2,2'-Oxybis(1-chl-propane)	0.01															
4-Methylphenol	0.60															
N-nitroso-di-n-propylamine	0.50															
Hexachloroethane	0.30															
Nitrobenzene	0.20															
Isophorone	0.40															
2-Nitrophenol	0.10															
2,4-Dimethylphenol	0.20															
bis-(2-chloroethoxyl)methane	0.30															
2,4-Dichlorophenol	0.20															
1,2,4-Trichlorobenzene	0.20															
Naphthalene	0.70															
4-Chloroaniline	0.01															
Hexachlorobutadiene	0.01															
4-Chloro-3-methylphenol	0.20															
2-Methylnaphthalene	0.40															
Hexachlorocyclopentadiene	0.01															
2,4,6-Trichlorophenol	0.20															
2,4,5-Trichlorophenol	0.20															
2-Chloronaphthalene	0.80															
2-Nitroaniline	0.01															
Dimethyl phthlate	0.01															
Acenaphthylene	1.30															
2,6-Dinitrotoluene	0.20															
3-Nitroaniline	0.01															
Acenaphthene	0.30															
2,4-Dinitrophenol	0.01															
4-Nitrophenol	0.01															
Dibenzofuran	0.80															
2,4-Dinitrotoluene	0.20															

Affected samples:

SBLKK2	EADP9DL			
SLCSG8				
EADQ2RE				
EADQ6RE				
EADQ5RE				
EADQ7RE				
EADQ3RE				
EADQ4RE				

Reviewer's Init/Date: JAS 11/6/97

J/R = All positive results are estimated "J" and non-detected results are unusable "R"

* = These flags should be applied to the analytes on the sample data sheets.
\# = Minimum Relative Response Factor

CALIBRATION OUTLIER
LOW CONCENTRATION WATER SEMIVOLATILE TCL COMPOUNDS
(Page 2 of 2)

CASE\SAS#: 25704
COLUMN:

LABORATORY: ENCOTEC
SITE NAME: American Chem Svcs

Instrument# 5971-004		Initial Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.		
Date/Time:		10/11/97 1325			10/17/97 1114											
	#	rf	%rsd	*	rf	%d	*	rf	%d	*	rf	%d	*	rf	%d	*
Diethylphthalate	0.01															
4-Chlorophenyl-phenylether	0.40															
Fluorene	0.90															
4-Nitroaniline	0.01															
4,6-Dinitro-2-methylphenol	0.01															
N-nitrosodiphenylamine	0.01															
4-Bromophenyl-phenylether	0.10															
Hexachlorobenzene	0.10															
Pentachlorophenol	0.05															
Phenanthrene	0.70															
Anthracene	0.70															
Di-n-butylphthalate	0.01															
Fluoranthene	0.60															
Pyrene	0.60															
Butylbenzylphthalate	0.01															
3,3'-Dichlorobenzidine	0.01	0.353			0.117	66.4										
Benzo(a)anthracene	0.80															
Chrysene	0.70															
bis(2-Ethylhexyl)phthalate	0.01															
Di-n-octyl phthalate	0.01															
Benzo(b)fluoranthene	0.70															
Benzo(k)fluoranthene	0.70															
Benzo(a)pyrene	0.70															
Indeno(1,2,3-cd)pyrene	0.50															
Dibenz(a,h)anthrancene	0.40															
Benzo(g,h,i)perylene	0.50															
Nitrobenzene-d5	0.01															
2-Fluorobiphenyl	0.70															
Terphenyl-d14	0.50															
Phenol-d5	0.80															
2-Fluorophenol	0.60															
2,4,6-Tribromophenol	0.01	0.302	27.3													

Reviewer's Init/Date: RS 11/6/97

J/R = All positive results are estimated "J" and non-detected results are unusable "R"

* = These flags should be applied to the analytes on the sample data sheets.
\# = Minimum Relative Response Factor

CALIBRATION OUTLIER
Pesticide/PCB TCL
(Page 1 of 1)

SE/SAS #: 25704
COLUMN: DB-17

LABORATORY: ENCOTEC
SITE NAME: American Chem Svcs

Instrument Number Date 3400D	Initial Cal. 10/4/97 OH7		Cont. Cal.		Cont. Cal.		Cont. Cal.		Cont. Cal.	
Time										
	%RSD	*	%D	*	%D	*	%D	*	%D	*
alpha-BHC										
beta-BHC										
delta-BHC										
gamma-BHC										
Hepachlor										
Aldrin										
Heptachlor Epoxide										
Endosulfan I										
Dieldrin										
4,4'-DDE										
Endrin										
Endosulfan II										
4,4'-DDD										
Endosulfan Sulfate										
4,4'-DDT										
Methoxychlor										
Endrin Ketone										
Endrin Aldehyde										
alpha-Chlordane										
gamma-Chlordane										
Aroicor 1016										
Aroclor 1221										
Aroclor 1232										
Aroicor 1242										
Aroclor 1248										
Aroclor 1254										
Aroclor 1260										

Affected Samples:

PBLKK1, PBLKJ9				
PLCSB6 EADQ5				
EADZ2 EADQ7				
EADZ3 EADQ3				
EADP9 EADQ4				
EADQ0				
EADQ1				
EADQ2				
EADQ6				

* These flags should be applied to the analytes on the sample data sheets.
J/R = All positive results are estimated "J" and non-detected results are unusable "R".

Reviewer's Init/Date: JRS 11/6/97

CALIBRATION OUTLIER
Pesticide/PCB TCL
(Page 1 of 1)

CASE/SAS #: 25704
COLUMN: DB-1701

LABORATORY: ENCOTEC
SITE NAME: American Chem SVES

Instrument Number	Initial Cal.		Cont. Cal.		Cont. Cal.		Cont. Cal.		Cont. Cal.	
Date 34002	10/04/97 0117									
Time										
	%RSD	*	%D	*	%D	*	%D	*	%D	*
alpha-BHC										
beta-BHC										
delta-BHC										
gamma-BHC										
Heptachlor										
Aldrin										
Heptachlor Epoxide										
Endosulfan I										
Dieldrin										
4,4'-DDE										
Endrin										
Endosulfan II										
4,4'-DDD										
Endosulfan Sulfate										
4,4'-DDT										
Methoxychlor										
Endrin Ketone										
Endrin Aldehyde										
alpha-Chlordane										
gamma-Chlordane										
Aroicor 1016										
Aroclor 1221										
Aroclor 1232										
Aroicor 1242										
Aroclor 1248										
Aroclor 1254										
Aroclor 1260										

Affected Samples:

PALK4 PALK5				
PLES5,6 EADQ5				
EADZ2 EADQ7				
EADZ3 EADQ3				
EADP9 EADQ4				
EADQ0				
EADQ1				
EADQ2				
EADQ6				

* These flags should be applied to the analytes on the sample data sheets.
J/R = All positive results are estimated "J" and non-detected results are unusable "R".

Reviewer's Init/Date: DKS 11/6/97

ORGANIC DATA QUALIFIER DEFINITIONS

For the purpose of defining the flagging nomenclature used in this document, the following code letters and associated definitions are provided:

VALUE - when/if the result of a value is greater than or equal to the Contract Required Quantitation Limit (CRQL).

U Indicates that the compound was analyzed for, but not detected. The sample quantitation limit corrected for dilution and percent moisture is reported.

J Indicates an estimated value. This flag is used either when estimating a concentration for a tentatively identified compound or when the data indicates the presence of a compound where the result is less than the sample quantitation limit, but greater than zero. The flag is also used to indicate a reported result having an associated QC problem.

R Indicates the data are unusable. (NOTE: The analyte may or may not be present.)

N Indicates presumptive evidence of a compound. This flag is only used for a tentatively identified compound, where the identification is based on a mass spectral library search.

P Indicates a pesticide/Aroclor target analyte when there is greater than 25% difference for the detected concentrations between the two GC columns. The lower of the two results is reported.

C Indicates pesticide results that have been confirmed by GC/MS.

B Indicates the analyte is detected in the associated blank as well as in the sample.

E Indicates compounds whose concentrations exceed the calibration range of the instrument.

D Indicates an identified compound in an analysis has been diluted. This flag alerts the data user to any differences between the concentrations reported in the two analysis.

A Indicates tentatively identified compounds that are suspected to be aldol condensation products.

G Indicates the TCLP Matrix Spike Recovery was greater than the upper limit of the analytical method.

L Indicates the TCLP Matrix Spike Recovery was less than the lower limit of the analytical method.

T Indicates the analyte is found in the associated TCLP extraction blank as well as in the sample.

X,Y,Z are reserved for laboratory defined flags.

EPA United States Environmental Protection Agency
Contract Laboratory Program

Organic Traffic Report & Chain of Custody Record
(For Organic CLP Analysis)

SAS No. (if applicable):
Case No.: [illegible]

1. Matrix (Enter in Column A)
1. Surface Water
2. Ground Water
3. Leachate
4. Field QC
5. Soil/Sediment
6. Oil (High only)
7. Waste (High only)
8. Other (Specify in Column A)

2. Preservative (Enter in Column D)
1. HCl
2. HNO3
3. NaHSO4
4. H2SO4
5. Ice only
6. Other (Specify in Column D)
N. Not preserved

2. Region No.: 5
Sampling Co.: BVSPC
Sampler (Name): Steve Mikyrcka
Sampler Signature: [signature]

3. Purpose*
Lead: [ ] SF [X] PRP [ ] ST [ ] FED
Early Action: [ ] CLEM [ ] PA [ ] REM [ ] RI [ ] SI [ ] ESI
Long-Term Action: [ ] FS [X] RD [X] RA [ ] O&M [ ] NPLD

4. Date Shipped: 10-2-97
Carrier: Federal Express
Airbill Number: 5654191104

5. Ship To: Rollins Environmental Inc. - ENCC
3785 Research Park Drive
Ann Arbor, MI 48108
ATTN: Tom Marshall

6. Date Received: [signature] 10/3/97
Received by:
Laboratory Contract Number: 68-D6-0061
Unit Price: 459.50
7. Transfer to:
Date Received:
Received by:
Contract Number:
Price:

CLP Sample Numbers (from labels)	A Matrix (from Box 1) Other:	B Conc.: Low Med High	C Sample Type: Comp./Grab	D Preservative (from Box 2) Other:	E RAS Analysis: VOA	BNA	Pest/PCB	High only ARO/TOX	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Corresponding CLP Inorganic Sample No.	J Sampler Initials	K High Phases: Solids	Water-Miscible Liq.	Water-Immis. Liq.
EADQ2	2	L	G	5		X	X		5-129515,6	ACS-RW01-001	10-2-97 1220	-	SRI			
EADQ6	2	L	G	5		X	X		5-129540,1	ACS-RW05-001	10-2-97 1135	-	SRI			
EADQ4	2	L	G	5		X	X		5-129528,9	ACS-RW03-001	10-2-97 1355	-	SRI			
EADQ5	2	L	G	5		X	X		5-129534,5	ACS-RW04-001	10-2-97 1330	-	SRI			
~~EADQ7~~	~~2~~	~~L~~	~~G~~	~~5~~		X	X		~~5-129546,7~~	~~ACS-RW06-001~~	~~10-2-97 1445~~	-	SRI			
EADQ7	2	L	G	5		X	X		5-129546,7	ACS-RW06-001	10-2-97 1445	-	SRI			
EADQ3	2	L	G	5		X	X		5-129521,3	ACS-RW02-001	10-2-97 1515	-	SRI			

First Sample: EADQ2
Last Sample: EADQ5

RM 10-2-97

Shipment for Case Complete? (Y/N): Y
Page: 1 of 2
Sample(s) to be Used for Laboratory QC:
Additional Sampler Signatures: SDG: EADP9
Chain of Custody Seal Number(s): [illegible]

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[signature]	10-2-97 1630			10/4/97	
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks Is custody seal intact? Y/N/none	
	10/3/97 09:00	[signature]			

DISTRIBUTION: Blue - Region Copy; White - Lab Copy for Return to Region; Pink - SMO Copy; Yellow - Lab Copy for Return to SMO

EPA Form 9110-2

SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS
*SEE REVERSE FOR PURPOSE CODE DEFINITIONS

A21-012-4 REV. 3/93

359200

EPA United States Environmental Protection Agency
Contract Laboratory Program

Organic Traffic Report & Chain of Custody Record
(For Organic CLP Analysis)

SAS No. (if applicable)

Case No.

1. Matrix (Enter in Column A)
1. Surface Water
2. Ground Water
3. Leachate
4. Field QC
5. Soil/Sediment
6. Oil (High only)
7. Waste (High only)
8. Other (Specify in Column A)

2. Preservative (Enter in Column D)
1. HCl
2. HNO3
3. NaHSO4
4. H2SO4
5. Ice only
6. Other (Specify in Column D)
N. Not preserved

2. Region No.: 5
Sampling Co.: BVSPC
Sampler (Name): Steve Mikvicka
Sampler Signature: [signature]

3. Purpose*
Lead: [ ] SF [X] PRP [ ] ST [ ] FED
Early Action: [ ] CLEM [ ] PA [ ] REM [ ] RI [ ] SI [ ] ESI
Long-Term Action: [ ] FS [X] RD [X] RA [ ] O&M [ ] NPLD

4. Date Shipped: 10-2-97
Carrier: Federal Express
Airbill Number: 5654111104

5. Ship To
Rollins Environmental Inc. ENCO
3985 Research Park Drive
Ann Arbor, MI 48108
ATTN: Tom Marshall

6. Date Received -- Received by: [signature] 10/3/97
Laboratory Contract Number: 68-D6-0061
Unit Price: 459.50
7. Transfer to:
Date Received
Received by
Contract Number
Price

CLP Sample Numbers (from labels)	A Matrix (from Box 1) Other:	B Conc.: Low Med High	C Sample Type: Comp./Grab	D Preservative (from Box 2) Other:	E RAS Analysis VOA	BNA	Pest/PCB	High only ARO/TOX	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Corresponding CLP Inorganic Sample No.	J Sampler Initials	K High Phases Solids	Water-Miscible Liq.	Water-Immis. Liq.
EADQ2	2	L	G	1	X				5-129513,4	ACS-RW01-001	10-2-97 1220	–	SRM			
EADQ6	2	L	G	1	X				5-129538,9	ACS-RW05-001	10-2-97 1135	–	SRM			
EADQ4	2	L	G	1	X				5-129526,7	ACS-RW03-001	10-2-97 1355	–	SRM			
EADQ5	2	L	G	1	X				5-129532,3	ACS-RW04-001	10-2-97 1330	–	SRM			
EADS5	2	L	G	1	X				5-129572,3	ACS-TB07-201	10-2-97 1500	–	SRM			
EADQ7	2	L	G	1	X				5-129544,5	ACS-RW06-001	10-2-97 1445	–	SRM			
EADQ3	2	L	G	1	X				5-129519,20	ACS-RW02-001	10-2-97 1515		SRM			

First Sample: EADQ2
Last Sample: EADQ7

Shipment for Case Complete? (Y/N): Y
Page: 2 of 2
Sample(s) to be Used for Laboratory QC:
Additional Sampler Signatures: SDG: EADP9
Chain of Custody Seal Number(s): [illegible]

CHAIN OF CUSTODY RECORD

TNW 10/4/97

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[signature]	10-2-97 1130				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks Is custody seal intact? Y/N/none	
	10/3/97 9:00	[signature]			

DISTRIBUTION: Blue - Region Copy; White - Lab Copy for Return to Region; Pink - SMO Copy; Yellow - Lab Copy for Return to SMO

EPA Form 9110-2

SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS
*SEE REVERSE FOR PURPOSE CODE DEFINITIONS

A21-012-4 REV. 3/93

353289

6

EPA United States Environmental Protection Agency
Contract Laboratory Program

Organic Traffic Report & Chain of Custody Record
(For Organic CLP Analysis)

SAS No. (if applicable)

Case No.

1. Matrix (Enter in Column A)
1. Surface Water
2. Ground Water
3. Leachate
4. Field QC
5. Soil/Sediment
6. Oil (High only)
7. Waste (High only)
8. Other (Specify in Column A)

2. Preservative (Enter in Column D)
1. HCl
2. HNO3
3. NaHSO4
4. H2SO4
5. Ice only
6. Other (Specify in Column D)
N. Not preserved

2. Region No.: 5
Sampling Co.: BVSPC
4. Date Shipped: 10-1-97
Carrier: Federal Express
6. Date Received -- Received by: [signature] 10/2/97
Sampler (Name): Steve Mikvicka
Airbill Number: 5654191043
Laboratory Contract Number: 68-D6-0061
Unit Price: 459.50
Sampler Signature: [signature]
5. Ship To: Rollins Environmental Inc. - ENG
3985 Research Park Drive
Ann Arbor, MI 48108
ATTN: Tom Marshall
7. Transfer to:
Date Received
Received by
Contract Number
Price

3. Purpose*
Lead: [ ] SF [X] PRP [ ] ST [ ] FED
Early Action: [ ] CLEM [ ] PA [ ] REM [ ] RI [ ] SI [ ] ESI
Long-Term Action: [ ] FS [X] RD [X] RA [ ] O&M [ ] NPLD

CLP Sample Numbers (from labels)	A Matrix (from Box 1) Other:	B Conc.: Low Med High	C Sample Type: Comp./Grab	D Preservative (from Box 2) Other:	E RAS Analysis: VOA	BNA	Pest/PCB	High only ARO/TOX	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Corresponding CLP Inorganic Sample No.	J Sampler Initials	K High Phases: Solids	Water-Miscible Liq.	Water-Immis. Liq.
EADQ0	2	L	G	1	X				5-129556,7	ACS-GWL-001	10-1-97 1115	-	SRA			
EADQ0	2	L	G	5		X	X		5-129553,9	↓	↓	-	SRA			
EADQ1	2	L	G	1	X				5-129562,3	ACS-EB02-201	10-1-97 1200	-	SRA			
EADQ1	2	L	G	5		X	X		5-129564,5	↓	↓	-	SRA			
EADS4	2	L	G	1	X				5-129570,1	ACS-TB06-201	10-1-97 1410	-	SRA			

First Sample: EADQ0
Last Sample: EADS4
SDG: EADP9

Shipment for Case Complete? (Y/N) Y
Page 1 of 1
Sample(s) to be Used for Laboratory QC
Additional Sampler Signatures: [signature]
Chain of Custody Seal Number(s): 153277, 153278

CHAIN OF CUSTODY RECORD

10/2/97

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[signature]	10-1-97 1500				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks Is custody seal intact? Y/N/none	
	10/2/97 9:15	[signature]			

A21-012-4 REV. 3/93

DISTRIBUTION: Blue - Region Copy; White - Lab Copy for Return to Region; Pink - SMO Copy; Yellow - Lab Copy for Return to SMO

EPA Form 9110-2

SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS
*SEE REVERSE FOR PURPOSE CODE DEFINITIONS

359280

SDG NARRATIVE
Client Name: US EPA
Project Number: 75102
CASE Number: 25704
Sample Delivery Group: EADP9
Contract Number: 68-D6-0061
Batch Number(s): 100006703, 100006669
Narrative Date: October 18, 1997
Samples: EADQ2, EADQ6, EADQ5, EADQ7, EADQ3, EADS5, EADQ4, EADZ2, EADZ3, EADP9, EADS3, EADQ0, EADQ1, EADS4

A total of fourteen samples were received by LES (ENCOTEC) on October 02, 1997 through October 03, 1997, and was scheduled for Organics Analysis. Please refer to the following table for vital information that pertains to this case.

Table 1.0

SDG #: EADP9

	SAMPLE ANALYZED			
	Actual Samples	QC Samples	Re-Run Samples	Total Billable Analyses
Volatile Analyses	14	0	2	16
Semivolatile Analyses	11	0	1	12
Pesticide/PCB Analyses	11	0	0	11

Total Analyses: 11 Full + 5 VOA + 1 BNA

This Deliverables Package is assembled in accordance with instructions in Section B, OLC02.1 revision of the Contract Laboratory Program - Statement of Work. A copy of this deliverable has been distributed to SMO and to Region V.

The following is a detailed description of quality control, shipment, and/or analytical problems that were encountered in the processing of these samples.

Sample Login

ENCOTEC received fourteen samples from Federal Express on October 02, 1997 through October 26, 1997. Standard Chain of Custody procedures were followed. The sample was stored at 4°C and/or chemically preserved as required by EPA protocol. The sample was scheduled for Full Organic Analysis.

Sample Analysis - Volatile

Sample analysis was performed without incident and within holding times. Chain of custody was maintained, and samples were analyzed according to EPA SOW OLC02.1. Quality control results are summarized as follows:

- Analyses of surrogates were performed on all samples; please see FORM II LCV for results.
- The method blanks contained the following target analytes: Methylene Chloride and 1,2,4-Trichlorobenzene near or below the CRQL. No Tentatively Identified Compounds (TICs) were detected. Please see method blank Forms I LCV-TIC for results.
- A Laboratory control sample was performed with this SDG. Please see Form III LCV for results.
- All EICP areas and retention times were within QA/QC. Please see FORM VIII LCV for results.

Summary

The sample revealed multiple positively detected Target Compounds. Several Tentatively Identified Compounds were detected in the sample. Samples EADQ1 and EADS4 required reanalysis since these samples were analyzed immediately after previous samples containing high TIC detections. Please see FORM's I LCV for results.

Sample Extraction

The samples were continuous liquid-liquid extracted for Semivolatile analysis on October 06, 1997 through October 10, 1997. The samples were separatory funnel extracted for Pesticide/PCB analysis on October 06, 1997 and October 07, 1997. All extracts

were processed according to CLP protocol with one incident. The LCS originally extracted on October 07, 1997 exhibited a surrogate recovery outlier for d5-Phenol. This QC sample along with all samples under the extraction event were subsequently reextracted on October 10, 1997. Final extracts were given to the GC/MS and GC groups on October 06, 1997 through October 11, 1997.

Sample Analysis - Semivolatile

Sample analysis was performed without incident and within holding times. Sample Chain of custody was maintained, and samples were analyzed according to EPA SOW OLC02.1. Quality control results are summarized as follows:

- Analyses of surrogates were performed on all samples. Please see FORM II LCSV for results.

- The method blanks did not reveal any target analytes. No Tentatively Identified Compounds (TICs) were detected. Please see method blank FORM's I LCSV-1, LCSV-2 and LCSV-TIC for results.

- A Laboratory Control Sample (LCS) was analyzed with this SDG. Please see Form III LCSV for results.

- EICP areas and retention times were within QA/QC windows. Please see FORM's VIII LCSV-1 and LCSV-2 for results.

Summary

Not part of SDG

The sample revealed multiple positively detected Target compounds. Sample EAZN8 required reanalysis at a secondary dilution due to concentrations of detected analytes exceeding the linear range established by the calibration standards. Several TICs were detected in the samples. Please see FORM's I LCSV-1, LCSV-2, and LCSV-TIC for results.

Sample Analysis - Pesticide/PCB

Sample analysis was performed within holding times without incident. Chain of custody was maintained, and samples were analyzed according to EPA SOW OLC02.1. Quality control results are summarized as follows:

- Analyses of surrogates were performed on all samples; please see FORM II LCP for results.

- The method blanks did not contain any target analytes at or above the CRQL.

- A Laboratory Control Sample was analyzed with this SDG. Please see FORM III LCP for results.

Summary

No target analytes were found in the sample above the CRQL. Please see all FORM I LCP for results.

Any technical questions regarding the data present in this deliverable should be addressed to the individual whose name appears at the end of this case narrative. Any manual integrations/compound identifications were done so on account the automatic software either failing to properly identify/quantitate the analyte of interest. The location of the Ph values for the volatile fraction are contained within the analytical run logs located within the Miscellaneous Data Section of the Complete Sample File (CSF).

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

Thomas H. Marshall

10/18/97

Thomas H. Marshall
Project Manager
THM
75102

DATE

2LCA

LOW CONC. WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EADP9

	EPA SAMPLE NO.	BFB %REC#	OTHER	TOT OUT
01	VBLK12	105		0
02	EADZ2	102		0
03	EADZ3	109		0
04	EADP9	103		0
05	EADS3	88		0
06	EADQ0	91		0
07	EADQ1	99		0
08	EADS4	89		0

			QC LIMITS % REC
BFB	=	Bromofluorobenzene	(80-120)

Column to be used to flag recovery values

* Values outside of contract required QC limits

2LCA

LOW CONC. WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EADP9

	EPA SAMPLE NO.	BFB %REC#	OTHER	TOT OUT
01	VBLK13	91		0
02	EADQ2	93		0
03	EADQ6	93		0
04	EADQ5	89		0
05	EADQ7	86		0
06	EADQ3	92		0
07	EADS5	88		0
08	EADQ4	90		0
09	VLCS13	91		0

			QC LIMITS % REC
BFB	=	Bromofluorobenzene	(80-120)

Column to be used to flag recovery values

* Values outside of contract required QC limits

2LCA
LOW CONC. WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EADP9

	EPA SAMPLE NO.	BFB %REC#	OTHER	TOT OUT
01	VBLK14	91		0
02	EADQ1RE	97		0
03	EADS4RE	96		0
04	VHBLK13	91		0

			QC LIMITS % REC
BFB	=	Bromofluorobenzene	(80-120)

Column to be used to flag recovery values

* Values outside of contract required QC limits

3LCA

LOW CONC. WATER VOLATILE LAB CONTROL SAMPLE RECOVERY

EPA SAMPLE NO..

VLCS13

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EADP9

Lab Sample ID: VLCS13 LCS Lot No.: LA62539

Lab File ID: LCSG1011.D Date Analyzed: 10/12/97

Purge volume: 10.0 (ml) Dilution Factor: 1

LCS Aliquot: 10.0 (ul)

COMPOUND	AMOUNT ADDED (ng)	AMOUNT RECOVERED (ng)	% REC #	QC LIMITS
Vinyl Chloride	50	42.20	84	60 - 140
1,2-Dichloroethane	50	59.90	120	60 - 140
Carbon Tetrachloride	50	53.50	107	60 - 140
1,2-Dichloropropane	50	57.90	116	60 - 140
cis 1,3-Dichloropropene	50	48.20	96	60 - 140
Trichloroethene	50	54.90	110	60 - 140
1,1,2-Trichloroethane	50	60.50	121	60 - 140
Benzene	50	54.10	108	60 - 140
Bromoform	50	68.30	137	60 - 140
Tetrachloroethene	50	53.40	107	60 - 140
1,2-Dibromoethane	50	53.20	106	60 - 140
1,4-Dichlorobenzene	50	58.50	117	60 - 140

Column to be used to flag LCS recovery with an asterisk

* Values outside of QC limits

LCS Recovery: 0 outside of limits out of 12 total

COMMENTS: _____

1LCA

EPA SAMPLE NO.

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

VLCS13

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: SDG No.: EADP9

Lab Sample ID: VLCS13 Date Received:

Lab File ID: LCSG1011.D Date Analyzed: 10/12/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl Chloride	4	
75-00-3	Chloroethane	1	U
75-09-2	Methylene Chloride	2	U
67-64-1	Acetone	5	U
75-15-0	Carbon Disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis 1,2-Dichloroethene	1	U
156-60-5	trans 1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	6	
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	5	
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	6	
10061-01-5	cis 1,3-Dichloropropene	5	
79-01-6	Trichloroethene	5	
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	6	
71-43-2	Benzene	5	
10061-02-6	trans 1,3-Dichloropropene	1	U
75-25-2	Bromoform	7	
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	5	
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	5	
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylene (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	6	
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VLCS13

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EADP9

Lab Sample ID: VLCS13 Date Received: _____

Lab File ID: LCSG1011.D Date Analyzed: 10/12/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST.CONC. (ug/L)	Q

4LCA

LOW CONC. WATER VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK12

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EADP9

Lab Sample ID: VBLK12 Date Analyzed: 10/11/97

Lab File ID: VWBJ111G.D Time Analyzed: 13:18

Instrument ID: 5971-007

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND LCS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	EADZ2	EADZ2	43501V.D	14:37
02	EADZ3	EADZ3	43502V.D	15:16
03	EADP9	EADP9	43503V.D	15:54
04	EADS3	EADS3	43504V.D	16:33
05	EADQ0	EADQ0	43505V.D	17:12
06	EADQ1	EADQ1	43506V.D	17:51
07	EADS4	EADS4	43507V.D	18:29

COMMENTS:

4LCA

LOW CONC. WATER VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK13

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EADP9

Lab Sample ID: VBLK13 Date Analyzed: 10/12/97

Lab File ID: VWBJ112G.D Time Analyzed: 00:27

Instrument ID: 5971-007

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND LCS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	EADQ2	EADQ2	43628V.D	01:46
02	EADQ6	EADQ6	43629V.D	02:25
03	EADQ5	EADQ5	43630V.D	03:04
04	EADQ3	EADQ3	43632V.D	04:22
05	EADS5	EADS5	43633V.D	05:01
06	EADQ4	EADQ4	43638V.D	05:40
07	VLCS13	VLCS13	LCSG1011.D	06:20

EADQ7

COMMENTS:

4LCA

LOW CONC. WATER VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK14

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EADP9

Lab Sample ID: VBLK14 Date Analyzed: 10/13/97

Lab File ID: VWBJ13G1.D Time Analyzed: 16:42

Instrument ID: 5971-007

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND LCS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	EADQ1RE	EADQ1RE	43506VR1.D	17:21
02	EADS4RE	EADS4RE	43507VR.D	17:59
03	VHBLK13	VHBLK13	VHBLK13R.D	18:40

COMMENTS:

1LCA

EPA SAMPLE NO.

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

VBLK12

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EADP9

Lab Sample ID: VBLK12 Date Received: _____

Lab File ID: VWBJ111G.D Date Analyzed: 10/11/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl Chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene Chloride	0.8	J
67-64-1	Acetone	5	U
75-15-0	Carbon Disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis 1,2-Dichloroethene	1	U
156-60-5	trans 1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis 1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans 1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylene (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	0.9	J

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK12

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EADP9

Lab Sample ID: VBLK12 Date Received: _____

Lab File ID: VWBJ111G.D Date Analyzed: 10/11/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST.CONC. (ug/L)	Q

1LCA

EPA SAMPLE NO.

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

VBLK13

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EADP9

Lab Sample ID: VBLK13 Date Received: _____

Lab File ID: VWBJ112G.D Date Analyzed: 10/12/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl Chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene Chloride	0.8	J
67-64-1	Acetone	5	U
75-15-0	Carbon Disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis 1,2-Dichloroethene	1	U
156-60-5	trans 1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis 1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans 1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylene (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK13

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EADP9

Lab Sample ID: VBLK13 Date Received: _____

Lab File ID: VWBJ112G.D Date Analyzed: 10/12/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST.CONC. (ug/L)	Q

1LCA

EPA SAMPLE NO.

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

VBLK14

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EADP9

Lab Sample ID: VBLK14 Date Received: _____

Lab File ID: VWBJ13G1.D Date Analyzed: 10/13/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl Chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene Chloride	0.8	J
67-64-1	Acetone	5	U
75-15-0	Carbon Disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis 1,2-Dichloroethene	1	U
156-60-5	trans 1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis 1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans 1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylene (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK14

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EADP9

Lab Sample ID: VBLK14 Date Received: _____

Lab File ID: VWBJ13G1.D Date Analyzed: 10/13/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST.CONC. (ug/L)	Q

1LCA

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VHBLK13

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: SDG No.: EADP9

Lab Sample ID: VHBLK13 Date Received: 10/02/97

Lab File ID: VHBLK13R.D Date Analyzed: 10/13/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl Chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene Chloride	1	~~JB~~ U
67-64-1	Acetone	5	U
75-15-0	Carbon Disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis 1,2-Dichloroethene	1	U
156-60-5	trans 1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis 1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans 1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylene (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U

OJ 11/4/97

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VHBLK13

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EADP9

Lab Sample ID: VHBLK13 Date Received: 10/02/97

Lab File ID: VHBLK13R.D Date Analyzed: 10/13/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST.CONC. (ug/L)	Q

1LCA

EPA SAMPLE NO.

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EADP9

MW12

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: SDG No.: EADP9

Lab Sample ID: EADP9 Date Received: 10/02/97

Lab File ID: 43503V.D Date Analyzed: 10/11/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl Chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene Chloride	~~2.0~~	~~UB~~
67-64-1	Acetone	5	U
75-15-0	Carbon Disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis 1,2-Dichloroethene	1	U
156-60-5	trans 1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis 1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	~~1.0~~	~~J~~
10061-02-6	trans 1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	0.2	J
108-90-7	Chlorobenzene	6	
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylene (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U

DRS 11/5/97

SRM
IU 1-8-98
Found in EB02

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EADP9

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EADP9

Lab Sample ID: EADP9 Date Received: 10/02/97

Lab File ID: 43503V.D Date Analyzed: 10/11/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

Number TICs found: 1

CAS NO.	COMPOUND NAME	RT	EST.CONC. (ug/L)	Q
1. 039638-32-9	Bis(2-chloroisopropyl) ether	27.02	10	JN

1LCA

EPA SAMPLE NO.

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EADQ0

MW51

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: SDG No.: EADP9

Lab Sample ID: EADQ0 Date Received: 10/02/97

Lab File ID: 43505V.D Date Analyzed: 10/11/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl Chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene Chloride	~~0.4~~	~~B~~ U
67-64-1	Acetone	5	U
75-15-0	Carbon Disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis 1,2-Dichloroethene	1	U
156-60-5	trans 1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis 1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans 1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	7	
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	0.5	J
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylene (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U

DRS 11/5/97

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EADQ0

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: SDG No.: EADP9

Lab Sample ID: EADQ0 Date Received: 10/02/97

Lab File ID: 43505V.D Date Analyzed: 10/11/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

Number TICs found: 6

CAS NO.	COMPOUND NAME	RT	EST.CONC. (ug/L)	Q
1. 000060-29-7	Ether	7.36	158	JN
2. 000060-29-7	Ether	7.56	640	JN
3. 000075-05-8	Acetonitrile	8.55	3	JN
4.	Unknown	9.11	4	J
5. 000109-99-9	Furan, tetrahydro-	12.02	19	JN
6. 000123-91-1	1,4-Dioxane	15.22	3	JN

1LCA

EPA SAMPLE NO.

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EADQ1

Equip blank EB02

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EADP9

Lab Sample ID: EADQ1 Date Received: 10/02/97

Lab File ID: 43506V.D Date Analyzed: 10/11/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl Chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene Chloride	~~2.04~~	~~JB~~ U DJB 11/5/97
67-64-1	Acetone	5	U
75-15-0	Carbon Disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis 1,2-Dichloroethene	1	U
156-60-5	trans 1,2-Dichloroethene	1	U
67-66-3	Chloroform	0.9	J
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
75-27-4	Bromodichloromethane	0.2	J
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis 1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	0.5	J
10061-02-6	trans 1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylene (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EADQ1

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EADP9

Lab Sample ID: EADQ1 Date Received: 10/02/97

Lab File ID: 43506V.D Date Analyzed: 10/11/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

Number TICs found: 1

CAS NO.	COMPOUND NAME	RT	EST.CONC. (ug/L)	Q
1. 000060-29-7	Ether	7.49	93	JN

1LCA

EPA SAMPLE NO.

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EADQ1RE

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: SDG No.: EADP9

Lab Sample ID: EADQ1RE Date Received: 10/02/97

Lab File ID: 43506VR1.D Date Analyzed: 10/13/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

Equipment blank EB02 serum

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl Chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene Chloride	2	U
67-64-1	Acetone	23	
75-15-0	Carbon Disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis 1,2-Dichloroethene	1	U
156-60-5	trans 1,2-Dichloroethene	1	U
67-66-3	Chloroform	0.9	J
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis 1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	0.5	J
10061-02-6	trans 1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylene (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EADQ1RE

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EADP9

Lab Sample ID: EADQ1RE Date Received: 10/02/97

Lab File ID: 43506VR1.D Date Analyzed: 10/13/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST.CONC. (ug/L)	Q

1LCA

EPA SAMPLE NO.

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EADQ2

RW 01

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EADP9

Lab Sample ID: EADQ2 Date Received: 10/03/97

Lab File ID: 43628V.D Date Analyzed: 10/12/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl Chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene Chloride	~~2 0.5~~	~~JB~~ U
67-64-1	Acetone	5	U
75-15-0	Carbon Disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis 1,2-Dichloroethene	1	U
156-60-5	trans 1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis 1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans 1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylene (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U

DJS 11/5/97

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EADQ2

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EADP9

Lab Sample ID: EADQ2 Date Received: 10/03/97

Lab File ID: 43628V.D Date Analyzed: 10/12/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST.CONC. (ug/L)	Q

1LCA

EPA SAMPLE NO.

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EADQ3

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EADP9

RWQ2

Lab Sample ID: EADQ3 Date Received: 10/03/97

Lab File ID: 43632V.D Date Analyzed: 10/12/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl Chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene Chloride	~~2 B~~	~~JB~~ U
67-64-1	Acetone	5	U
75-15-0	Carbon Disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis 1,2-Dichloroethene	1	U
156-60-5	trans 1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis 1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans 1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylene (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U

0/25 11/5/97

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EADQ3

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EADP9

Lab Sample ID: EADQ3 Date Received: 10/03/97

Lab File ID: 43632V.D Date Analyzed: 10/12/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST.CONC. (ug/L)	Q

1LCA

EPA SAMPLE NO.

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EADQ4

RW03

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: SDG No.: EADP9

Lab Sample ID: EADQ4 Date Received: 10/03/97

Lab File ID: 43638V.D Date Analyzed: 10/12/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl Chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene Chloride	~~2 03~~	~~JB~~ U
67-64-1	Acetone	5	U
75-15-0	Carbon Disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis 1,2-Dichloroethene	1	U
156-60-5	trans 1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis 1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans 1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylene (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U

SAS 11/5/97

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EADQ4

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EADP9

Lab Sample ID: EADQ4 Date Received: 10/03/97

Lab File ID: 43638V.D Date Analyzed: 10/12/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST.CONC. (ug/L)	Q

1LCA

EPA SAMPLE NO.

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EADQ5

RW04

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: SDG No.: EADP9

Lab Sample ID: EADQ5 Date Received: 10/03/97

Lab File ID: 43630V.D Date Analyzed: 10/12/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl Chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene Chloride	2	U
67-64-1	Acetone	5	U
75-15-0	Carbon Disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis 1,2-Dichloroethene	1	U
156-60-5	trans 1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis 1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans 1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylene (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EADQ5

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EADP9

Lab Sample ID: EADQ5 Date Received: 10/03/97

Lab File ID: 43630V.D Date Analyzed: 10/12/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST.CONC. (ug/L)	Q

1LCA

EPA SAMPLE NO.

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EADQ6

Rw05

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EADP9

Lab Sample ID: EADQ6 Date Received: 10/03/97

Lab File ID: 43629V.D Date Analyzed: 10/12/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl Chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene Chloride	2	U
67-64-1	Acetone	5	U
75-15-0	Carbon Disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis 1,2-Dichloroethene	1	U
156-60-5	trans 1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis 1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans 1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylene (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EADQ6

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EADP9

Lab Sample ID: EADQ6 Date Received: 10/03/97

Lab File ID: 43629V.D Date Analyzed: 10/12/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST.CONC. (ug/L)	Q

1LCA

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EADQ7

RW06

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: SDG No.: EADP9

Lab Sample ID: EADQ7 Date Received: 10/03/97

Lab File ID: 43631V.D Date Analyzed: 10/12/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl Chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene Chloride	2 ~~03~~	~~J~~ U
67-64-1	Acetone	5	U
75-15-0	Carbon Disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis 1,2-Dichloroethene	1	U
156-60-5	trans 1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis 1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans 1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylene (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U

JAS 11/5/97

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EADQ7

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EADP9

Lab Sample ID: EADQ7 Date Received: 10/03/97

Lab File ID: 43631V.D Date Analyzed: 10/12/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST.CONC. (ug/L)	Q

1LCA

EPA SAMPLE NO.

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EADS3

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: SDG No.: EADP9

TB05

Lab Sample ID: EADS3 Date Received: 10/02/97

Lab File ID: 43504V.D Date Analyzed: 10/11/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl Chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene Chloride	~~2.07~~	~~B~~ U DAS 11/5/97
67-64-1	Acetone	5	U
75-15-0	Carbon Disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis 1,2-Dichloroethene	1	U
156-60-5	trans 1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis 1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans 1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylene (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EADS3

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EADP9

Lab Sample ID: EADS3 Date Received: 10/02/97

Lab File ID: 43504V.D Date Analyzed: 10/11/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

Number TICs found: 1

CAS NO.	COMPOUND NAME	RT	EST.CONC. (ug/L)	Q
1. 000060-29-7	Ether	7.48	5	JN

1LCA

EPA SAMPLE NO.

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EADS4

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EADP9

TB06

Lab Sample ID: EADS4 Date Received: 10/02/97

Lab File ID: 43507V.D Date Analyzed: 10/11/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl Chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene Chloride	2 ~~0.5~~	~~JB~~ U
67-64-1	Acetone	5	U
75-15-0	Carbon Disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis 1,2-Dichloroethene	1	U
156-60-5	trans 1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis 1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans 1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylene (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U

JB 11/5/97

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EADS4

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EADP9

Lab Sample ID: EADS4 Date Received: 10/02/97

Lab File ID: 43507V.D Date Analyzed: 10/11/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

Number TICs found: 1

CAS NO.	COMPOUND NAME	RT	EST.CONC. (ug/L)	Q
1. 000060-29-7	Ether	7.48	2	JN

1LCA

EPA SAMPLE NO.

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EADS4RE

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: SDG No.: EADP9

Lab Sample ID: EADS4RE Date Received: 10/02/97

Lab File ID: 43507VR.D Date Analyzed: 10/13/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

TB06RE
rerun

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl Chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene Chloride	~~2 04~~	~~JB~~ U
67-64-1	Acetone	5	U
75-15-0	Carbon Disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis 1,2-Dichloroethene	1	U
156-60-5	trans 1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis 1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans 1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylene (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U

DJS 11/5/97

1LCA

EPA SAMPLE NO.

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EADS5

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EADP9

TB07

Lab Sample ID: EADS5 Date Received: 10/03/97

Lab File ID: 43633V.D Date Analyzed: 10/12/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl Chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene Chloride	2 ~~0.5~~	~~JB~~ U JBS 11/5/97
67-64-1	Acetone	5	U
75-15-0	Carbon Disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis 1,2-Dichloroethene	1	U
156-60-5	trans 1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis 1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans 1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylene (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EADS4RE

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: SDG No.: EADP9

Lab Sample ID: EADS4RE Date Received: 10/02/97

Lab File ID: 43507VR.D Date Analyzed: 10/13/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST.CONC. (ug/L)	Q

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EADS5

TB07

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: SDG No.: EADP9

Lab Sample ID: EADS5 Date Received: 10/03/97

Lab File ID: 43633V.D Date Analyzed: 10/12/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

Number TICs found: 1

CAS NO.	COMPOUND NAME	RT	EST.CONC. (ug/L)	Q
1.	Unknown	23.72	2	J

1LCA

EPA SAMPLE NO.

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EADZ2

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: SDG No.: EADP9

Lab Sample ID: EADZ2 Date Received: 10/02/97

Lab File ID: 43501V.D Date Analyzed: 10/11/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

MW29

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl Chloride	1	U
75-00-3	Chloroethane	1	
75-09-2	Methylene Chloride	2 ~~0.7~~	~~JBU~~
67-64-1	Acetone	5	U
75-15-0	Carbon Disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis 1,2-Dichloroethene	1	U
156-60-5	trans 1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis 1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	~~0.7~~	~~J~~
10061-02-6	trans 1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	0.5	J
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylene (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U

SAS 11/5/97

SRM 1-8-98
1U Found in EB02

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EADZ2

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EADP9

Lab Sample ID: EADZ2 Date Received: 10/02/97

Lab File ID: 43501V.D Date Analyzed: 10/11/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

MW 29

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST.CONC. (ug/L)	Q

1LCA

EPA SAMPLE NO.

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EADZ3

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EADP9

Lab Sample ID: EADZ3 Date Received: 10/02/97

Lab File ID: 43502V.D Date Analyzed: 10/11/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

MW29 duplicate

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl Chloride	1	U
75-00-3	Chloroethane	1	
75-09-2	Methylene Chloride	2 ~~JB~~	~~JB~~ U DRS 11/5/97
67-64-1	Acetone	5	U
75-15-0	Carbon Disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis 1,2-Dichloroethene	1	U
156-60-5	trans 1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis 1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	0.7	J
10061-02-6	trans 1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	0.6	J
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylene (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EADZ3

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EADP9

Lab Sample ID: EADZ3 Date Received: 10/02/97

Lab File ID: 43502V.D Date Analyzed: 10/11/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

MW29
[illegible]

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST.CONC. (ug/L)	Q

2LCB

LOW CONC. WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EADP9

	EPA SAMPLE NO.	S1 NBZ #	S2 FBP #	S3 TPH #	S4 PHL #	S5 2-FP #	S6 TBP #	TOT OUT
01	SBLKJ8	87	93	86	94	83	63	0
02	EADZ2	91	86	87	91	90	71	0
03	EADZ3	88	88	81	96	92	70	0
04	EADP9	97	89	75	96	91	70	0
05	EADQ0	90	83	79	98	94	70	0
06	EADQ1	96	97	94	94	90	64	0

			QC LIMITS
NBZ	=	d5-Nitrobenzene	(23-120)
FBP	=	2-Fluorobiphenyl	(30-115)
TPH	=	d14-Terphenyl	(18-140)
PHL	=	d5-Phenol	(15-115)
2-FP	=	2-Fluorophenol	(15-121)
TBP	=	2,4,6-Tribromophenol	(15-130)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogate diluted out

2LCB

LOW CONC. WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: SDG No.: EADP9

	EPA SAMPLE NO.	S1 NBZ #	S2 FBP #	S3 TPH #	S4 PHL #	S5 2-FP #	S6 TBP #	TOT OUT
01	SBLKK0	74	72	79	79	71	51	0
02	SLCSG7	67	62	75	13 *	65	54	1
03	EADQ2	80	77	76	78	72	56	0
04	EADQ6	81	74	78	81	71	58	0
05	EADQ5	77	76	80	79	71	58	0
06	EADQ7	69	64	51	1 *	56	53	1
07	EADQ3	86	83	80	82	77	60	0
08	EADQ4	80	78	82	76	77	59	0

			QC LIMITS
NBZ	=	d5-Nitrobenzene	(23-120)
FBP	=	2-Fluorobiphenyl	(30-115)
TPH	=	d14-Terphenyl	(18-140)
PHL	=	d5-Phenol	(15-115)
2-FP	=	2-Fluorophenol	(15-121)
TBP	=	2,4,6-Tribromophenol	(15-130)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogate diluted out

2LCB

LOW CONC. WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EADP9

	EPA SAMPLE NO.	S1 NBZ #	S2 FBP #	S3 TPH #	S4 PHL #	S5 2-FP #	S6 TBP #	TOT OUT
01	SBLKK2	66	51	83	65	66	40	0
02	SLCSG8	78	69	85	84	79	51	0
03	EADQ2RE	84	71	89	91	90	62	0
04	EADQ6RE	85	68	84	98	97	63	0
05	EADQ5RE	81	75	78	86	83	58	0
06	EADQ7RE	79	79	89	86	83	59	0
07	EADQ3RE	68	52	93	82	77	60	0
08	EADQ4RE	75	65	89	86	85	65	0

			QC LIMITS
NBZ	=	d5-Nitrobenzene	(23-120)
FBP	=	2-Fluorobiphenyl	(30-115)
TPH	=	d14-Terphenyl	(18-140)
PHL	=	d5-Phenol	(15-115)
2-FP	=	2-Fluorophenol	(15-121)
TBP	=	2,4,6-Tribromophenol	(15-130)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogate diluted out

2LCB

LOW CONC. WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EADP9

	EPA SAMPLE NO.	S1 NBZ #	S2 FBP #	S3 TPH #	S4 PHL #	S5 2-FP #	S6 TBP #	TOT OUT
01	EADP9DL	37	38	36	41	39	27	0

			QC LIMITS
NBZ	=	d5-Nitrobenzene	(23-120)
FBP	=	2-Fluorobiphenyl	(30-115)
TPH	=	d14-Terphenyl	(18-140)
PHL	=	d5-Phenol	(15-115)
2-FP	=	2-Fluorophenol	(15-121)
TBP	=	2,4,6-Tribromophenol	(15-130)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogate diluted out

3LCB

LOW CONC. WATER SEMIVOLATILE LAB CONTROL SAMPLE RECOVERY

EPA SAMPLE NO.

SLCSG7

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EADP9

Lab Sample ID: SLCSG7 LCS Lot No.: _____

Lab File ID: SLCSG7.D Date Extracted 10/07/97

LCS Aliquot: 10.0 (ul) Date Analyzed: 10/8/97

Concentrated Extract Volume: 1000 (ul) Dilution Factor: 1

Injection Volume: 1 (ul)

COMPOUND	AMOUNT ADDED (ng)	AMOUNT RECOVERED (ng)	% REC #	QC LIMITS
Phenol	40	20.50	51	40 - 120
bis(2-Chloroethyl) ether	20	13.30	67	50 - 110
2-Chlorophenol	40	27.20	68	50 - 110
n-Nitroso-di-n-propylamine	20	13.90	70	30 - 110
Hexachloroethane	20	11.90	60	20 - 110
Isophorone	20	12.20	61	50 - 110
Naphthalene	20	12.70	64	30 - 110
4-Chloroaniline	40	21.10	53	10 - 120
2,4,6-Trichlorophenol	40	26.90	67	40 - 120
2,4-Dinitrotoluene	20	12.70	64	30 - 120
Diethylphthalate	20	14.80	74	50 - 120
n-Nitrosodiphenylamine	20	11.30	56	30 - 110
Hexachlorobenzene	20	15.00	75	40 - 120
Benzo(a) pyrene	20	5.30	27 *	50 - 120

Column to be used to flag LCS recovery with an asterisk

* Values outside of QC limits

LCS Recovery: 1 outside limits out of 14 total

COMMENTS: _____

3LCB

LOW CONC. WATER SEMIVOLATILE LAB CONTROL SAMPLE RECOVERY

EPA SAMPLE NO.

SLCSG8

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EADP9

Lab Sample ID: SLCSG8 LCS Lot No.: _____

Lab File ID: SLCSG8.D Date Extracted 10/10/97

LCS Aliquot: 10.0 (ul) Date Analyzed: 0/11/97

Concentrated Extract Volume: 1000 (ul) Dilution Factor: 1

Injection Volume: 1 (ul)

COMPOUND	AMOUNT ADDED (ng)	AMOUNT RECOVERED (ng)	% REC #	QC LIMITS
Phenol	40	33.70	84	40 - 120
bis(2-Chloroethyl) ether	20	15.80	79	50 - 110
2-Chlorophenol	40	32.50	81	50 - 110
n-Nitroso-di-n-propylamine	20	14.80	74	30 - 110
Hexachloroethane	20	11.00	55	20 - 110
Isophorone	20	14.50	73	50 - 110
Naphthalene	20	13.40	67	30 - 110
4-Chloroaniline	40	26.40	66	10 - 120
2,4,6-Trichlorophenol	40	29.80	75	40 - 120
2,4-Dinitrotoluene	20	11.10	56	30 - 120
Diethylphthalate	20	14.90	75	50 - 120
n-Nitrosodiphenylamine	20	14.20	71	30 - 110
Hexachlorobenzene	20	15.40	77	40 - 120
Benzo(a) pyrene	20	15.20	76	50 - 120

Column to be used to flag LCS recovery with an asterisk

* Values outside of QC limits

LCS Recovery: 0 outside limits out of 14 total

COMMENTS: _____

4LCB

LOW CONC. WATER SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLKJ8

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EADP9

Lab Sample ID: SBLKJ8 Date Extracted: 10/6/97

Lab File ID: SBLKJ8.D Date Analyzed: 10/07/97

Instrument ID: 5971-024 Time Analyzed: 20:34

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND LCS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	EADZ2	EADZ2	43501B.D	10/07/97
02	EADZ3	EADZ3	43502B.D	10/07/97
03	EADP9	EADP9	43503B.D	10/07/97
04	EADQ0	EADQ0	43505B.D	10/07/97
05	EADQ1	EADQ1	43506B.D	10/08/97

COMMENTS:

4LCB

LOW CONC. WATER SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLKK0

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: SDG No.: EADP9

Lab Sample ID: SBLKK0 Date Extracted: 10/7/97

Lab File ID: SBLKK0.D Date Analyzed: 10/08/97

Instrument ID: 5971-024 Time Analyzed: 17:03

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND LCS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	SLCSG7	SLCSG7	SLCSG7.D	10/08/97
02	EADQ2	EADQ2	43628B.D	10/08/97
03	EADQ6	EADQ6	43629B.D	10/08/97
04	EADQ5	EADQ5	43630B.D	10/08/97
05	EADQ7	EADQ7	43631B.D	10/08/97
06	EADQ3	EADQ3	43632B.D	10/08/97
07	EADQ4	EADQ4	43638B.D	10/08/97

COMMENTS:

4LCB

LOW CONC. WATER SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLKK2

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: SDG No.: EADP9

Lab Sample ID: SBLKK2 Date Extracted: 10/10/97

Lab File ID: SBLKK2.D Date Analyzed: 10/11/97

Instrument ID: 5971-009 Time Analyzed: 17:46

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND LCS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	SLCSG8	SLCSG8	SLCSG8.D	10/11/97
02	EADQ2RE	EADQ2RE	43628RE.D	10/11/97
03	EADQ6RE	EADQ6RE	43629RE.D	10/11/97
04	EADQ5RE	EADQ5RE	43630RE.D	10/11/97
05	EADQ7RE	EADQ7RE	43631RE.D	10/11/97
06	EADQ3RE	EADQ3RE	43632RE.D	10/11/97
07	EADQ4RE	EADQ4RE	43638RE.D	10/11/97

COMMENTS:

4LCB

LOW CONC. WATER SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLKK2

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EADP9

Lab Sample ID: SBLKK2 Date Extracted: 10/10/97

Lab File ID: SBLKK2.D Date Analyzed: 10/11/97

Instrument ID: 5971-009 Time Analyzed: 17:46

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND LCS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	EADP9DL	EADP9DL	43503DL.D	10/17/97

COMMENTS:

1LCB

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SBLKJ8

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EADP9

Lab Sample ID: SBLKJ8 Date Received: _____

Lab File ID: SBLKJ8.D Date Extracted: 10/06/97

Sample Volume: 1000 (ML) Date Analyzed: 10/07/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
108-95-2	Phenol	5	U
111-44-4	bis(2-Chloroethyl) ether	5	U
95-57-8	2-Chlorophenol	5	U
95-48-7	2-Methylphenol	5	U
108-60-1	2,2'-oxybis-(1-Chloropropane)	5	U
106-44-5	4-Methylphenol	5	U
621-64-7	n-Nitroso-di-n-propylamine	5	U
67-72-1	Hexachloroethane	5	U
98-95-3	Nitrobenzene	5	U
78-59-1	Isophorone	5	U
88-75-5	2-Nitrophenol	5	U
105-67-9	2,4-Dimethylphenol	5	U
111-91-1	bis(2-chloroethoxy) methane	5	U
120-83-2	2,4-Dichlorophenol	5	U
91-20-3	Naphthalene	5	U
106-47-8	4-Chloroaniline	5	U
87-68-3	Hexachlorobutadiene	5	U
59-50-7	4-Chloro-3-methylphenol	5	U
91-57-6	2-Methylnaphthalene	5	U
77-47-4	Hexachlorocyclopentadiene	5	U
88-06-2	2,4,6-Trichlorophenol	5	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronapthalene	5	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5	U
208-96-8	Acenapththylene	5	U
606-20-2	2,6-Dinitrotoluene	5	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5	U
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5	U

1LCC

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SBLKJ8

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: SDG No.: EADP9

Lab Sample ID: SBLKJ8 Date Received:

Lab File ID: SBLKJ8.D Date Extracted: 10/06/97

Sample Volume: 1000 (ML) Date Analyzed: 10/07/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
121-14-2	2,4-Dinitrotoluene	5	U
84-66-2	Diethylphthalate	5	U
7005-72-3	4-Chlorophenyl phenyl ether	5	U
86-73-7	Fluorene	5	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	n-Nitrosodiphenylamine(1)	5	U
101-55-3	4-Bromophenyl phenyl ether	5	U
118-74-1	Hexachlorobenzene	5	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	5	U
120-12-7	Anthracene	5	U
84-74-2	Di-n-butylphthalate	5	U
206-44-0	Fluoranthene	5	U
129-00-0	Pyrene	5	U
85-68-7	Butyl benzyl phthalate	5	U
91-94-1	3,3'-Dichlorobenzidine	5	U
56-55-3	Benzo(a) anthracene	5	U
218-01-9	Chrysene	5	U
117-81-7	bis(2-Ethylhexyl) phthalate	5	U
117-84-0	Di-n-octylphthalate	5	U
205-99-2	Benzo(b) fluoranthene	5	U
207-08-9	Benzo(k) fluoranthene	5	U
50-32-8	Benzo(a) pyrene	5	U
193-39-5	Indeno (1,2,3-cd) pyrene	5	U
53-70-3	Dibenz (ah) anthracene	5	U
191-24-2	Benzo (ghi) perylene	5	U

(1) - Cannot be separated from Diphenylamine

1LCF

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SBLKJ8

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EADP9

Lab Sample ID: SBLKJ8 Date Received: _____

Lab File ID: SBLKJ8.D Date Extracted: 10/06/97

Sample Volume: 1000 (ML) Date Analyzed: 10/07/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. ug/L	Q

1LCB

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SBLKK0

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: SDG No.: EADP9

Lab Sample ID: SBLKK0 Date Received:

Lab File ID: SBLKK0.D Date Extracted: 10/07/97

Sample Volume: 1000 (ML) Date Analyzed: 10/08/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
108-95-2	Phenol	5	U
111-44-4	bis(2-Chloroethyl) ether	5	U
95-57-8	2-Chlorophenol	5	U
95-48-7	2-Methylphenol	5	U
108-60-1	2,2'-oxybis-(1-Chloropropane)	5	U
106-44-5	4-Methylphenol	5	U
621-64-7	n-Nitroso-di-n-propylamine	5	U
67-72-1	Hexachloroethane	5	U
98-95-3	Nitrobenzene	5	U
78-59-1	Isophorone	5	U
88-75-5	2-Nitrophenol	5	U
105-67-9	2,4-Dimethylphenol	5	U
111-91-1	bis(2-chloroethoxy) methane	5	U
120-83-2	2,4-Dichlorophenol	5	U
91-20-3	Naphthalene	5	U
106-47-8	4-Chloroaniline	5	U
87-68-3	Hexachlorobutadiene	5	U
59-50-7	4-Chloro-3-methylphenol	5	U
91-57-6	2-Methylnaphthalene	5	U
77-47-4	Hexachlorocyclopentadiene	5	U
88-06-2	2,4,6-Trichlorophenol	5	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronapthalene	5	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5	U
208-96-8	Acenapththylene	5	U
606-20-2	2,6-Dinitrotoluene	5	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5	U
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5	U

1LCC

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SBLKK0

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EADP9

Lab Sample ID: SBLKK0 Date Received: _____

Lab File ID: SBLKK0.D Date Extracted: 10/07/97

Sample Volume: 1000 (ML) Date Analyzed: 10/08/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
121-14-2	2,4-Dinitrotoluene	5	U
84-66-2	Diethylphthalate	5	U
7005-72-3	4-Chlorophenyl phenyl ether	5	U
86-73-7	Fluorene	5	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	n-Nitrosodiphenylamine(1)	5	U
101-55-3	4-Bromophenyl phenyl ether	5	U
118-74-1	Hexachlorobenzene	5	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	5	U
120-12-7	Anthracene	5	U
84-74-2	Di-n-butylphthalate	5	U
206-44-0	Fluoranthene	5	U
129-00-0	Pyrene	5	U
85-68-7	Butyl benzyl phthalate	5	U
91-94-1	3,3'-Dichlorobenzidine	5	U
56-55-3	Benzo(a) anthracene	5	U
218-01-9	Chrysene	5	U
117-81-7	bis(2-Ethylhexyl) phthalate	5	U
117-84-0	Di-n-octylphthalate	5	U
205-99-2	Benzo(b) fluoranthene	5	U
207-08-9	Benzo(k) fluoranthene	5	U
50-32-8	Benzo(a) pyrene	5	U
193-39-5	Indeno (1,2,3-cd) pyrene	5	U
53-70-3	Dibenz (ah) anthracene	5	U
191-24-2	Benzo (ghi) perylene	5	U

(1) - Cannot be separated from Diphenylamine

1LCF

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SBLKK0

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EADP9

Lab Sample ID: SBLKK0 Date Received: _____

Lab File ID: SBLKK0.D Date Extracted: 10/07/97

Sample Volume: 1000 (ML) Date Analyzed: 10/08/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. ug/L	Q

1LCB

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SBLKK2

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EADP9

Lab Sample ID: SBLKK2 Date Received: _____

Lab File ID: SBLKK2.D Date Extracted: 10/10/97

Sample Volume: 1000 (ML) Date Analyzed: 10/11/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
108-95-2	Phenol	5	U
111-44-4	bis(2-Chloroethyl) ether	5	U
95-57-8	2-Chlorophenol	5	U
95-48-7	2-Methylphenol	5	U
108-60-1	2,2'-oxybis-(1-Chloropropane)	5	U
106-44-5	4-Methylphenol	5	U
621-64-7	n-Nitroso-di-n-propylamine	5	U
67-72-1	Hexachloroethane	5	U
98-95-3	Nitrobenzene	5	U
78-59-1	Isophorone	5	U
88-75-5	2-Nitrophenol	5	U
105-67-9	2,4-Dimethylphenol	5	U
111-91-1	bis(2-chloroethoxy) methane	5	U
120-83-2	2,4-Dichlorophenol	5	U
91-20-3	Naphthalene	5	U
106-47-8	4-Chloroaniline	5	U
87-68-3	Hexachlorobutadiene	5	U
59-50-7	4-Chloro-3-methylphenol	5	U
91-57-6	2-Methylnaphthalene	5	U
77-47-4	Hexachlorocyclopentadiene	5	U
88-06-2	2,4,6-Trichlorophenol	5	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronapthalene	5	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5	U
208-96-8	Acenapththylene	5	U
606-20-2	2,6-Dinitrotoluene	5	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5	U
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5	U

1LCC

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SBLKK2

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EADP9

Lab Sample ID: SBLKK2 Date Received: _____

Lab File ID: SBLKK2.D Date Extracted: 10/10/97

Sample Volume: 1000 (ML) Date Analyzed: 10/11/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
121-14-2	2,4-Dinitrotoluene	5	U
84-66-2	Diethylphthalate	5	U
7005-72-3	4-Chlorophenyl phenyl ether	5	U
86-73-7	Fluorene	5	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	n-Nitrosodiphenylamine(1)	5	U
101-55-3	4-Bromophenyl phenyl ether	5	U
118-74-1	Hexachlorobenzene	5	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	5	U
120-12-7	Anthracene	5	U
84-74-2	Di-n-butylphthalate	5	U
206-44-0	Fluoranthene	5	U
129-00-0	Pyrene	5	U
85-68-7	Butyl benzyl phthalate	5	U
91-94-1	3,3'-Dichlorobenzidine	5	U
56-55-3	Benzo(a) anthracene	5	U
218-01-9	Chrysene	5	U
117-81-7	bis(2-Ethylhexyl) phthalate	5	U
117-84-0	Di-n-octylphthalate	5	U
205-99-2	Benzo(b) fluoranthene	5	U
207-08-9	Benzo(k) fluoranthene	5	U
50-32-8	Benzo(a) pyrene	5	U
193-39-5	Indeno (1,2,3-cd) pyrene	5	U
53-70-3	Dibenz (ah) anthracene	5	U
191-24-2	Benzo (ghi) perylene	5	U

(1) - Cannot be separated from Diphenylamine

1LCF

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SBLKK2

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EADP9

Lab Sample ID: SBLKK2 Date Received: _____

Lab File ID: SBLKK2.D Date Extracted: 10/10/97

Sample Volume: 1000 (ML) Date Analyzed: 10/11/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. ug/L	Q

1LCB

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SLCSG7

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: SDG No.: EADP9

Lab Sample ID: SLCSG7 Date Received:

Lab File ID: SLCSG7.D Date Extracted: 10/07/97

Sample Volume: 1000 (ML) Date Analyzed: 10/08/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
108-95-2	Phenol	20	
111-44-4	bis(2-Chloroethyl) ether	13	
95-57-8	2-Chlorophenol	27	
95-48-7	2-Methylphenol	5	U
108-60-1	2,2'-oxybis-(1-Chloropropane)	5	U
106-44-5	4-Methylphenol	5	U
621-64-7	n-Nitroso-di-n-propylamine	14	
67-72-1	Hexachloroethane	12	
98-95-3	Nitrobenzene	5	U
78-59-1	Isophorone	12	
88-75-5	2-Nitrophenol	5	U
105-67-9	2,4-Dimethylphenol	5	U
111-91-1	bis(2-chloroethoxy) methane	5	U
120-83-2	2,4-Dichlorophenol	5	U
91-20-3	Naphthalene	13	
106-47-8	4-Chloroaniline	21	
87-68-3	Hexachlorobutadiene	5	U
59-50-7	4-Chloro-3-methylphenol	5	U
91-57-6	2-Methylnaphthalene	5	U
77-47-4	Hexachlorocyclopentadiene	5	U
88-06-2	2,4,6-Trichlorophenol	27	
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronapthalene	5	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5	U
208-96-8	Acenapththylene	5	U
606-20-2	2,6-Dinitrotoluene	5	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5	U
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5	U

1LCC

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SLCSG7

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: SDG No.: EADP9

Lab Sample ID: SLCSG7 Date Received:

Lab File ID: SLCSG7.D Date Extracted: 10/07/97

Sample Volume: 1000 (ML) Date Analyzed: 10/08/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
121-14-2	2,4-Dinitrotoluene	13	
84-66-2	Diethylphthalate	15	
7005-72-3	4-Chlorophenyl phenyl ether	5	U
86-73-7	Fluorene	5	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	n-Nitrosodiphenylamine(1)	11	
101-55-3	4-Bromophenyl phenyl ether	5	U
118-74-1	Hexachlorobenzene	15	
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	5	U
120-12-7	Anthracene	5	U
84-74-2	Di-n-butylphthalate	5	U
206-44-0	Fluoranthene	5	U
129-00-0	Pyrene	5	U
85-68-7	Butyl benzyl phthalate	5	U
91-94-1	3,3'-Dichlorobenzidine	5	U
56-55-3	Benzo(a) anthracene	5	U
218-01-9	Chrysene	5	U
117-81-7	bis(2-Ethylhexyl) phthalate	5	U
117-84-0	Di-n-octylphthalate	5	U
205-99-2	Benzo(b) fluoranthene	5	U
207-08-9	Benzo(k) fluoranthene	5	U
50-32-8	Benzo(a) pyrene	5	
193-39-5	Indeno (1,2,3-cd) pyrene	5	U
53-70-3	Dibenz (ah) anthracene	5	U
191-24-2	Benzo (ghi) perylene	5	U

(1) - Cannot be separated from Diphenylamine

1LCF

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SLCSG7

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EADP9

Lab Sample ID: SLCSG7 Date Received: _____

Lab File ID: SLCSG7.D Date Extracted: 10/07/97

Sample Volume: 1000 (ML) Date Analyzed: 10/08/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. ug/L	Q

1LCB

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SLCSG8

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EADP9

Lab Sample ID: SLCSG8 Date Received: _____

Lab File ID: SLCSG8.D Date Extracted: 10/10/97

Sample Volume: 1000 (ML) Date Analyzed: 10/11/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
108-95-2	Phenol	34	
111-44-4	bis(2-Chloroethyl) ether	16	
95-57-8	2-Chlorophenol	33	
95-48-7	2-Methylphenol	5	U
108-60-1	2,2'-oxybis-(1-Chloropropane)	5	U
106-44-5	4-Methylphenol	5	U
621-64-7	n-Nitroso-di-n-propylamine	15	
67-72-1	Hexachloroethane	11	
98-95-3	Nitrobenzene	5	U
78-59-1	Isophorone	15	
88-75-5	2-Nitrophenol	5	U
105-67-9	2,4-Dimethylphenol	5	U
111-91-1	bis(2-chloroethoxy) methane	5	U
120-83-2	2,4-Dichlorophenol	5	U
91-20-3	Naphthalene	13	
106-47-8	4-Chloroaniline	26	
87-68-3	Hexachlorobutadiene	5	U
59-50-7	4-Chloro-3-methylphenol	5	U
91-57-6	2-Methylnaphthalene	5	U
77-47-4	Hexachlorocyclopentadiene	5	U
88-06-2	2,4,6-Trichlorophenol	30	
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronapthalene	5	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5	U
208-96-8	Acenapththylene	5	U
606-20-2	2,6-Dinitrotoluene	5	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5	U
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5	U

1LCC

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SLCSG8

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EADP9

Lab Sample ID: SLCSG8 Date Received: _____

Lab File ID: SLCSG8.D Date Extracted: 10/10/97

Sample Volume: 1000 (ML) Date Analyzed: 10/11/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
121-14-2	2,4-Dinitrotoluene	11	
84-66-2	Diethylphthalate	15	
7005-72-3	4-Chlorophenyl phenyl ether	5	U
86-73-7	Fluorene	5	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	n-Nitrosodiphenylamine(1)	14	
101-55-3	4-Bromophenyl phenyl ether	5	U
118-74-1	Hexachlorobenzene	15	
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	5	U
120-12-7	Anthracene	5	U
84-74-2	Di-n-butylphthalate	5	U
206-44-0	Fluoranthene	5	U
129-00-0	Pyrene	5	U
85-68-7	Butyl benzyl phthalate	5	U
91-94-1	3,3'-Dichlorobenzidine	5	U
56-55-3	Benzo(a) anthracene	5	U
218-01-9	Chrysene	5	U
117-81-7	bis(2-Ethylhexyl) phthalate	5	U
117-84-0	Di-n-octylphthalate	5	U
205-99-2	Benzo(b) fluoranthene	5	U
207-08-9	Benzo(k) fluoranthene	5	U
50-32-8	Benzo(a) pyrene	15	
193-39-5	Indeno (1,2,3-cd) pyrene	5	U
53-70-3	Dibenz (ah) anthracene	5	U
191-24-2	Benzo (ghi) perylene	5	U

(1) - Cannot be separated from Diphenylamine

1LCF

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SLCSG8

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EADP9

Lab Sample ID: SLCSG8 Date Received: _____

Lab File ID: SLCSG8.D Date Extracted: 10/10/97

Sample Volume: 1000 (ML) Date Analyzed: 10/11/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. ug/L	Q

1LCB

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EADP9

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: SDG No.: EADP9

Lab Sample ID: EADP9 Date Received: 10/02/97

Lab File ID: 43503B.D Date Extracted: 10/06/97

Sample Volume: 1000 (ML) Date Analyzed: 10/07/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

MW12

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
108-95-2	Phenol	23	
111-44-4	bis(2-Chloroethyl) ether	5	U
95-57-8	2-Chlorophenol	5	U
95-48-7	2-Methylphenol	5	U
108-60-1	2,2'-oxybis-(1-Chloropropane)	136	E
106-44-5	4-Methylphenol	5	U
621-64-7	n-Nitroso-di-n-propylamine	5	U
67-72-1	Hexachloroethane	5	U
98-95-3	Nitrobenzene	5	U
78-59-1	Isophorone	5	U
88-75-5	2-Nitrophenol	5	U
105-67-9	2,4-Dimethylphenol	5	U
111-91-1	bis(2-chloroethoxy) methane	5	U
120-83-2	2,4-Dichlorophenol	5	U
91-20-3	Naphthalene	5	U
106-47-8	4-Chloroaniline	5	U
87-68-3	Hexachlorobutadiene	5	U
59-50-7	4-Chloro-3-methylphenol	5	U
91-57-6	2-Methylnaphthalene	5	U
77-47-4	Hexachlorocyclopentadiene	5	U
88-06-2	2,4,6-Trichlorophenol	5	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronapthalene	5	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5	U
208-96-8	Acenapththylene	5	U
606-20-2	2,6-Dinitrotoluene	5	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5	U
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5	U

1LCC

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EADP9

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EADP9

Lab Sample ID: EADP9 Date Received: 10/02/97

Lab File ID: 43503B.D Date Extracted: 10/06/97

Sample Volume: 1000 (ML) Date Analyzed: 10/07/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
121-14-2	2,4-Dinitrotoluene	5	U
84-66-2	Diethylphthalate	5	U
7005-72-3	4-Chlorophenyl phenyl ether	5	U
86-73-7	Fluorene	5	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	n-Nitrosodiphenylamine(1)	5	U
101-55-3	4-Bromophenyl phenyl ether	5	U
118-74-1	Hexachlorobenzene	5	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	5	U
120-12-7	Anthracene	5	U
84-74-2	Di-n-butylphthalate	5	U
206-44-0	Fluoranthene	5	U
129-00-0	Pyrene	5	U
85-68-7	Butyl benzyl phthalate	5	U
91-94-1	3,3'-Dichlorobenzidine	5	U
56-55-3	Benzo(a) anthracene	5	U
218-01-9	Chrysene	5	U
117-81-7	bis(2-Ethylhexyl) phthalate	5	U
117-84-0	Di-n-octylphthalate	5	U
205-99-2	Benzo(b) fluoranthene	5	U
207-08-9	Benzo(k) fluoranthene	5	U
50-32-8	Benzo(a) pyrene	5	U
193-39-5	Indeno (1,2,3-cd) pyrene	5	U
53-70-3	Dibenz (ah) anthracene	5	U
191-24-2	Benzo (ghi) perylene	5	U

(1) - Cannot be separated from Diphenylamine

1LCF

LOW CONC: WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EADP9

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EADP9

Lab Sample ID: EADP9 Date Received: 10/02/97

Lab File ID: 43503B.D Date Extracted: 10/06/97

Sample Volume: 1000 (ML) Date Analyzed: 10/07/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

Number TICs found: 2

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. ug/L	Q
1. 054446-78-5	Ethanol, 1-(2-butoxyethoxy)-	9.73	14	JN
2.	Unknown	15.30	31	J

1LCB

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EADP9DL

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EADP9

Lab Sample ID: EADP9DL Date Received: 10/03/97

Lab File ID: 43503DL.D Date Extracted: 10/06/97

Sample Volume: 1000 (ML) Date Analyzed: 10/17/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 2.0

Injection Volume: 1.0 (uL)

MW 12

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
108-95-2	Phenol	19	D
111-44-4	bis(2-Chloroethyl) ether	10	U
95-57-8	2-Chlorophenol	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis-(1-Chloropropane)	120 ~~122~~	D
106-44-5	4-Methylphenol	10	U
621-64-7	n-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-chloroethoxy) methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	40	U
91-58-7	2-Chloronapthalene	10	U
88-74-4	2-Nitroaniline	40	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenapththylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	40	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	40	U
100-02-7	4-Nitrophenol	40	U
132-64-9	Dibenzofuran	10	U

DJS 11/5/97

1LCC

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EADP9DL

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EADP9

Lab Sample ID: EADP9DL Date Received: 10/03/97

Lab File ID: 43503DL.D Date Extracted: 10/06/97

Sample Volume: 1000 (ML) Date Analyzed: 10/17/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 2.0

Injection Volume: 1.0 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl phenyl ether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	40	U
534-52-1	4,6-Dinitro-2-methylphenol	40	U
86-30-6	n-Nitrosodiphenylamine(1)	10	U
101-55-3	4-Bromophenyl phenyl ether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	40	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butyl benzyl phthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a) anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl) phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b) fluoranthene	10	U
207-08-9	Benzo(k) fluoranthene	10	U
50-32-8	Benzo(a) pyrene	10	U
193-39-5	Indeno (1,2,3-cd) pyrene	10	U
53-70-3	Dibenz (ah) anthracene	10	U
191-24-2	Benzo (ghi) perylene	10	U

(1) - Cannot be separated from Diphenylamine

1LCF

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EADP9DL

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EADP9

Lab Sample ID: EADP9DL Date Received: 10/03/97

Lab File ID: 43503DL.D Date Extracted: 10/06/97

Sample Volume: 1000 (ML) Date Analyzed: 10/17/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 2.0

Injection Volume: 1.0 (uL)

MW12

Number TICs found: 1

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. ug/L	Q
1.	unknown	17.54	25	JD

1LCB

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EADQ0

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EADP9

Lab Sample ID: EADQ0 Date Received: 10/02/97

Lab File ID: 43505B.D Date Extracted: 10/06/97

Sample Volume: 1000 (ML) Date Analyzed: 10/07/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

MW51

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
108-95-2	Phenol	27	
111-44-4	bis(2-Chloroethyl) ether	5	U
95-57-8	2-Chlorophenol	5	U
95-48-7	2-Methylphenol	5	U
108-60-1	2,2'-oxybis-(1-Chloropropane)	5	U
106-44-5	4-Methylphenol	5	U
621-64-7	n-Nitroso-di-n-propylamine	5	U
67-72-1	Hexachloroethane	5	U
98-95-3	Nitrobenzene	5	U
78-59-1	Isophorone	5	U
88-75-5	2-Nitrophenol	5	U
105-67-9	2,4-Dimethylphenol	5	U
111-91-1	bis(2-chloroethoxy) methane	5	U
120-83-2	2,4-Dichlorophenol	5	U
91-20-3	Naphthalene	5	U
106-47-8	4-Chloroaniline	5	U
87-68-3	Hexachlorobutadiene	5	U
59-50-7	4-Chloro-3-methylphenol	5	U
91-57-6	2-Methylnaphthalene	5	U
77-47-4	Hexachlorocyclopentadiene	5	U
88-06-2	2,4,6-Trichlorophenol	5	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronapthalene	5	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5	U
208-96-8	Acenapththylene	5	U
606-20-2	2,6-Dinitrotoluene	5	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5	U
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5	U

1LCC

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EADQ0

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EADP9

Lab Sample ID: EADQ0 Date Received: 10/02/97

Lab File ID: 43505B.D Date Extracted: 10/06/97

Sample Volume: 1000 (ML) Date Analyzed: 10/07/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
121-14-2	2,4-Dinitrotoluene	5	U
84-66-2	Diethylphthalate	5	U
7005-72-3	4-Chlorophenyl phenyl ether	5	U
86-73-7	Fluorene	5	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	n-Nitrosodiphenylamine(1)	5	U
101-55-3	4-Bromophenyl phenyl ether	5	U
118-74-1	Hexachlorobenzene	5	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	5	U
120-12-7	Anthracene	5	U
84-74-2	Di-n-butylphthalate	2	J
206-44-0	Fluoranthene	5	U
129-00-0	Pyrene	5	U
85-68-7	Butyl benzyl phthalate	5	U
91-94-1	3,3'-Dichlorobenzidine	5	U
56-55-3	Benzo(a) anthracene	5	U
218-01-9	Chrysene	5	U
117-81-7	bis(2-Ethylhexyl) phthalate	~~1~~	~~J~~
117-84-0	Di-n-octylphthalate	5	U
205-99-2	Benzo(b) fluoranthene	5	U
207-08-9	Benzo(k) fluoranthene	5	U
50-32-8	Benzo(a) pyrene	5	U
193-39-5	Indeno (1,2,3-cd) pyrene	5	U
53-70-3	Dibenz (ah) anthracene	5	U
191-24-2	Benzo (ghi) perylene	5	U

(1) - Cannot be separated from Diphenylamine

1-8-98
SRM
5U
Found in
EB02

1LCF

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EADQ0

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EADP9

Lab Sample ID: EADQ0 Date Received: 10/02/97

Lab File ID: 43505B.D Date Extracted: 10/06/97

Sample Volume: 1000 (ML) Date Analyzed: 10/07/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

Number TICs found: 6

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. ug/L	Q
1.	unknown	4.84	11	J
2. 020324-32-7	2-Propanol, 1-(2-methoxy-1-methylethoxy	6.08	12	JN
3.	unknown	8.43	39	J
4. 000144-19-4	1,3-Pentanediol, 2,2,4-trimethyl-	9.27	38	JN
5.	unknown	9.84	20	J
6. 016844-98-7	Silanol, trimethyl-, propanoate	11.07	10	JN

1LCB

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EADQ1

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EADP9

Lab Sample ID: EADQ1 Date Received: 10/02/97

Lab File ID: 43506B.D Date Extracted: 10/06/97

Sample Volume: 1000 (ML) Date Analyzed: 10/08/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

EB02

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
108-95-2	Phenol	5	U
111-44-4	bis(2-Chloroethyl) ether	5	U
95-57-8	2-Chlorophenol	5	U
95-48-7	2-Methylphenol	5	U
108-60-1	2,2'-oxybis-(1-Chloropropane)	5	U
106-44-5	4-Methylphenol	5	U
621-64-7	n-Nitroso-di-n-propylamine	5	U
67-72-1	Hexachloroethane	5	U
98-95-3	Nitrobenzene	5	U
78-59-1	Isophorone	5	U
88-75-5	2-Nitrophenol	5	U
105-67-9	2,4-Dimethylphenol	5	U
111-91-1	bis(2-chloroethoxy) methane	5	U
120-83-2	2,4-Dichlorophenol	5	U
91-20-3	Naphthalene	5	U
106-47-8	4-Chloroaniline	5	U
87-68-3	Hexachlorobutadiene	5	U
59-50-7	4-Chloro-3-methylphenol	5	U
91-57-6	2-Methylnaphthalene	5	U
77-47-4	Hexachlorocyclopentadiene	5	U
88-06-2	2,4,6-Trichlorophenol	5	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronapthalene	5	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5	U
208-96-8	Acenapththylene	5	U
606-20-2	2,6-Dinitrotoluene	5	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5	U
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5	U

1LCC

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EADQ1

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EADP9

Lab Sample ID: EADQ1 Date Received: 10/02/97

Lab File ID: 43506B.D Date Extracted: 10/06/97

Sample Volume: 1000 (ML) Date Analyzed: 10/08/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
121-14-2	2,4-Dinitrotoluene	5	U
84-66-2	Diethylphthalate	5	U
7005-72-3	4-Chlorophenyl phenyl ether	5	U
86-73-7	Fluorene	5	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	n-Nitrosodiphenylamine(1)	5	U
101-55-3	4-Bromophenyl phenyl ether	5	U
118-74-1	Hexachlorobenzene	5	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	5	U
120-12-7	Anthracene	5	U
84-74-2	Di-n-butylphthalate	5	U
206-44-0	Fluoranthene	5	U
129-00-0	Pyrene	5	U
85-68-7	Butyl benzyl phthalate	5	U
91-94-1	3,3'-Dichlorobenzidine	5	U
56-55-3	Benzo(a) anthracene	5	U
218-01-9	Chrysene	5	U
117-81-7	bis(2-Ethylhexyl) phthalate	2	J
117-84-0	Di-n-octylphthalate	5	U
205-99-2	Benzo(b) fluoranthene	5	U
207-08-9	Benzo(k) fluoranthene	5	U
50-32-8	Benzo(a) pyrene	5	U
193-39-5	Indeno (1,2,3-cd) pyrene	5	U
53-70-3	Dibenz (ah) anthracene	5	U
191-24-2	Benzo (ghi) perylene	5	U

(1) - Cannot be separated from Diphenylamine

1LCF

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EADQ1

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: SDG No.: EADP9

Lab Sample ID: EADQ1 Date Received: 10/02/97

Lab File ID: 43506B.D Date Extracted: 10/06/97

Sample Volume: 1000 (ML) Date Analyzed: 10/08/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. ug/L	Q

1LCB

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EADQ2

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: SDG No.: EADP9

Lab Sample ID: EADQ2 Date Received: 10/03/97

Lab File ID: 43628B.D Date Extracted: 10/07/97

Sample Volume: 1000 (ML) Date Analyzed: 10/08/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

RW01

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
108-95-2	Phenol	5	U
111-44-4	bis(2-Chloroethyl) ether	5	U
95-57-8	2-Chlorophenol	5	U
95-48-7	2-Methylphenol	5	U
108-60-1	2,2'-oxybis-(1-Chloropropane)	5	U
106-44-5	4-Methylphenol	5	U
621-64-7	n-Nitroso-di-n-propylamine	5	U
67-72-1	Hexachloroethane	5	U
98-95-3	Nitrobenzene	5	U
78-59-1	Isophorone	5	U
88-75-5	2-Nitrophenol	5	U
105-67-9	2,4-Dimethylphenol	5	U
111-91-1	bis(2-chloroethoxy) methane	5	U
120-83-2	2,4-Dichlorophenol	5	U
91-20-3	Naphthalene	5	U
106-47-8	4-Chloroaniline	5	U
87-68-3	Hexachlorobutadiene	5	U
59-50-7	4-Chloro-3-methylphenol	5	U
91-57-6	2-Methylnaphthalene	5	U
77-47-4	Hexachlorocyclopentadiene	5	U
88-06-2	2,4,6-Trichlorophenol	5	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronapthalene	5	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5	U
208-96-8	Acenapththylene	5	U
606-20-2	2,6-Dinitrotoluene	5	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5	U
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5	U

1LCC

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EADQ2

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EADP9

Lab Sample ID: EADQ2 Date Received: 10/03/97

Lab File ID: 43628B.D Date Extracted: 10/07/97

Sample Volume: 1000 (ML) Date Analyzed: 10/08/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
121-14-2	2,4-Dinitrotoluene	5	U
84-66-2	Diethylphthalate	5	U
7005-72-3	4-Chlorophenyl phenyl ether	5	U
86-73-7	Fluorene	5	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	n-Nitrosodiphenylamine(1)	5	U
101-55-3	4-Bromophenyl phenyl ether	5	U
118-74-1	Hexachlorobenzene	5	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	5	U
120-12-7	Anthracene	5	U
84-74-2	Di-n-butylphthalate	5	U
206-44-0	Fluoranthene	5	U
129-00-0	Pyrene	5	U
85-68-7	Butyl benzyl phthalate	5	U
91-94-1	3,3'-Dichlorobenzidine	5	U
56-55-3	Benzo(a) anthracene	5	U
218-01-9	Chrysene	5	U
117-81-7	bis(2-Ethylhexyl) phthalate	5	U
117-84-0	Di-n-octylphthalate	5	U
205-99-2	Benzo(b) fluoranthene	5	U
207-08-9	Benzo(k) fluoranthene	5	U
50-32-8	Benzo(a) pyrene	5	U
193-39-5	Indeno (1,2,3-cd) pyrene	5	U
53-70-3	Dibenz (ah) anthracene	5	U
191-24-2	Benzo (ghi) perylene	5	U

(1) - Cannot be separated from Diphenylamine

1LCF

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EADQ2

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EADP9

Lab Sample ID: EADQ2 Date Received: 10/03/97

Lab File ID: 43628B.D Date Extracted: 10/07/97

Sample Volume: 1000 (ML) Date Analyzed: 10/08/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. ug/L	Q

1LCB

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EADQ2RE

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EADP9

Lab Sample ID: EADQ2RE Date Received: 10/03/97

Lab File ID: 43628RE.D Date Extracted: 10/10/97

Sample Volume: 1000 (ML) Date Analyzed: 10/11/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

RW 01

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
108-95-2	Phenol	5	U
111-44-4	bis(2-Chloroethyl) ether	5	U
95-57-8	2-Chlorophenol	5	U
95-48-7	2-Methylphenol	5	U
108-60-1	2,2'-oxybis-(1-Chloropropane)	5	U
106-44-5	4-Methylphenol	5	U
621-64-7	n-Nitroso-di-n-propylamine	5	U
67-72-1	Hexachloroethane	5	U
98-95-3	Nitrobenzene	5	U
78-59-1	Isophorone	5	U
88-75-5	2-Nitrophenol	5	U
105-67-9	2,4-Dimethylphenol	5	U
111-91-1	bis(2-chloroethoxy) methane	5	U
120-83-2	2,4-Dichlorophenol	5	U
91-20-3	Naphthalene	5	U
106-47-8	4-Chloroaniline	5	U
87-68-3	Hexachlorobutadiene	5	U
59-50-7	4-Chloro-3-methylphenol	5	U
91-57-6	2-Methylnaphthalene	5	U
77-47-4	Hexachlorocyclopentadiene	5	U
88-06-2	2,4,6-Trichlorophenol	5	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronapthalene	5	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5	U
208-96-8	Acenapththylene	5	U
606-20-2	2,6-Dinitrotoluene	5	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5	U
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5	U

J SAM 1-7-98

1LCC

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EADQ2RE

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EADP9

Lab Sample ID: EADQ2RE Date Received: 10/03/97

Lab File ID: 43628RE.D Date Extracted: 10/10/97

Sample Volume: 1000 (ML) Date Analyzed: 10/11/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
121-14-2	2,4-Dinitrotoluene	5	U
84-66-2	Diethylphthalate	5	U
7005-72-3	4-Chlorophenyl phenyl ether	5	U
86-73-7	Fluorene	5	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	n-Nitrosodiphenylamine(1)	5	U
101-55-3	4-Bromophenyl phenyl ether	5	U
118-74-1	Hexachlorobenzene	5	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	5	U
120-12-7	Anthracene	5	U
84-74-2	Di-n-butylphthalate	5	U
206-44-0	Fluoranthene	5	U
129-00-0	Pyrene	5	U
85-68-7	Butyl benzyl phthalate	5	U
91-94-1	3,3'-Dichlorobenzidine	5	U
56-55-3	Benzo(a) anthracene	5	U
218-01-9	Chrysene	5	U
117-81-7	bis(2-Ethylhexyl) phthalate	5	U
117-84-0	Di-n-octylphthalate	5	U
205-99-2	Benzo(b) fluoranthene	5	U
207-08-9	Benzo(k) fluoranthene	5	U
50-32-8	Benzo(a) pyrene	5	U
193-39-5	Indeno (1,2,3-cd) pyrene	5	U
53-70-3	Dibenz (ah) anthracene	5	U
191-24-2	Benzo (ghi) perylene	5	U

J SRM 1-7-98

(1) - Cannot be separated from Diphenylamine

1LCF

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EADQ2RE

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EADP9

Lab Sample ID: EADQ2RE Date Received: 10/03/97

Lab File ID: 43628RE.D Date Extracted: 10/10/97

Sample Volume: 1000 (ML) Date Analyzed: 10/11/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. ug/L	Q

1LCB

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EADQ3

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EADP9

Lab Sample ID: EADQ3 Date Received: 10/03/97

Lab File ID: 43632B.D Date Extracted: 10/07/97

Sample Volume: 1000 (ML) Date Analyzed: 10/08/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

RW02

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
108-95-2	Phenol	5	U
111-44-4	bis(2-Chloroethyl) ether	5	U
95-57-8	2-Chlorophenol	5	U
95-48-7	2-Methylphenol	5	U
108-60-1	2,2'-oxybis-(1-Chloropropane)	5	U
106-44-5	4-Methylphenol	5	U
621-64-7	n-Nitroso-di-n-propylamine	5	U
67-72-1	Hexachloroethane	5	U
98-95-3	Nitrobenzene	5	U
78-59-1	Isophorone	5	U
88-75-5	2-Nitrophenol	5	U
105-67-9	2,4-Dimethylphenol	5	U
111-91-1	bis(2-chloroethoxy) methane	5	U
120-83-2	2,4-Dichlorophenol	5	U
91-20-3	Naphthalene	5	U
106-47-8	4-Chloroaniline	5	U
87-68-3	Hexachlorobutadiene	5	U
59-50-7	4-Chloro-3-methylphenol	5	U
91-57-6	2-Methylnaphthalene	5	U
77-47-4	Hexachlorocyclopentadiene	5	U
88-06-2	2,4,6-Trichlorophenol	5	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronapthalene	5	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5	U
208-96-8	Acenapththylene	5	U
606-20-2	2,6-Dinitrotoluene	5	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5	U
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5	U

1LCC

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EADQ3

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: SDG No.: EADP9

Lab Sample ID: EADQ3 Date Received: 10/03/97

Lab File ID: 43632B.D Date Extracted: 10/07/97

Sample Volume: 1000 (ML) Date Analyzed: 10/08/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
121-14-2	2,4-Dinitrotoluene	5	U
84-66-2	Diethylphthalate	5	U
7005-72-3	4-Chlorophenyl phenyl ether	5	U
86-73-7	Fluorene	5	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	n-Nitrosodiphenylamine(1)	5	U
101-55-3	4-Bromophenyl phenyl ether	5	U
118-74-1	Hexachlorobenzene	5	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	5	U
120-12-7	Anthracene	5	U
84-74-2	Di-n-butylphthalate	5	U
206-44-0	Fluoranthene	5	U
129-00-0	Pyrene	5	U
85-68-7	Butyl benzyl phthalate	5	U
91-94-1	3,3'-Dichlorobenzidine	5	U
56-55-3	Benzo(a) anthracene	5	U
218-01-9	Chrysene	5	U
117-81-7	bis(2-Ethylhexyl) phthalate	5	U
117-84-0	Di-n-octylphthalate	5	U
205-99-2	Benzo(b) fluoranthene	5	U
207-08-9	Benzo(k) fluoranthene	5	U
50-32-8	Benzo(a) pyrene	5	U
193-39-5	Indeno (1,2,3-cd) pyrene	5	U
53-70-3	Dibenz (ah) anthracene	5	U
191-24-2	Benzo (ghi) perylene	5	U

(1) - Cannot be separated from Diphenylamine

1LCF

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EADQ3

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EADP9

Lab Sample ID: EADQ3 Date Received: 10/03/97

Lab File ID: 43632B.D Date Extracted: 10/07/97

Sample Volume: 1000 (ML) Date Analyzed: 10/08/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. ug/L	Q

1LCB

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EADQ3RE

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EADP9

Lab Sample ID: EADQ3RE Date Received: 10/03/97

Lab File ID: 43632RE.D Date Extracted: 10/10/97

Sample Volume: 1000 (ML) Date Analyzed: 10/11/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

RW02

rerun

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
108-95-2	Phenol	5	U
111-44-4	bis(2-Chloroethyl) ether	5	U
95-57-8	2-Chlorophenol	5	U
95-48-7	2-Methylphenol	5	U
108-60-1	2,2'-oxybis-(1-Chloropropane)	5	U
106-44-5	4-Methylphenol	5	U
621-64-7	n-Nitroso-di-n-propylamine	5	U
67-72-1	Hexachloroethane	5	U
98-95-3	Nitrobenzene	5	U
78-59-1	Isophorone	5	U
88-75-5	2-Nitrophenol	5	U
105-67-9	2,4-Dimethylphenol	5	U
111-91-1	bis(2-chloroethoxy) methane	5	U
120-83-2	2,4-Dichlorophenol	5	U
91-20-3	Naphthalene	5	U
106-47-8	4-Chloroaniline	5	U
87-68-3	Hexachlorobutadiene	5	U
59-50-7	4-Chloro-3-methylphenol	5	U
91-57-6	2-Methylnaphthalene	5	U
77-47-4	Hexachlorocyclopentadiene	5	U
88-06-2	2,4,6-Trichlorophenol	5	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronapthalene	5	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5	U
208-96-8	Acenapththylene	5	U
606-20-2	2,6-Dinitrotoluene	5	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5	U
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5	U

J SAM 1-7-98

1LCC

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EADQ3RE

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EADP9

Lab Sample ID: EADQ3RE Date Received: 10/03/97

Lab File ID: 43632RE.D Date Extracted: 10/10/97

Sample Volume: 1000 (ML) Date Analyzed: 10/11/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
121-14-2	2,4-Dinitrotoluene	5	U
84-66-2	Diethylphthalate	5	U
7005-72-3	4-Chlorophenyl phenyl ether	5	U
86-73-7	Fluorene	5	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	n-Nitrosodiphenylamine(1)	5	U
101-55-3	4-Bromophenyl phenyl ether	5	U
118-74-1	Hexachlorobenzene	5	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	5	U
120-12-7	Anthracene	5	U
84-74-2	Di-n-butylphthalate	5	U
206-44-0	Fluoranthene	5	U
129-00-0	Pyrene	5	U
85-68-7	Butyl benzyl phthalate	5	U
91-94-1	3,3'-Dichlorobenzidine	5	U
56-55-3	Benzo(a) anthracene	5	U
218-01-9	Chrysene	5	U
117-81-7	bis(2-Ethylhexyl) phthalate	5	U
117-84-0	Di-n-octylphthalate	5	U
205-99-2	Benzo(b) fluoranthene	5	U
207-08-9	Benzo(k) fluoranthene	5	U
50-32-8	Benzo(a) pyrene	5	U
193-39-5	Indeno (1,2,3-cd) pyrene	5	U
53-70-3	Dibenz (ah) anthracene	5	U
191-24-2	Benzo (ghi) perylene	5	U

J 1-7-98

(1) - Cannot be separated from Diphenylamine

1LCF

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EADQ3RE

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: ___ SDG No.: EADP9

Lab Sample ID: EADQ3RE Date Received: 10/03/97

Lab File ID: 43632RE.D Date Extracted: 10/10/97

Sample Volume: 1000 (ML) Date Analyzed: 10/11/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. ug/L	Q

1LCB

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EADQ4

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: SDG No.: EADP9

Lab Sample ID: EADQ4 Date Received: 10/03/97

Lab File ID: 43638B.D Date Extracted: 10/07/97

Sample Volume: 1000 (ML) Date Analyzed: 10/08/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

RWD3

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
108-95-2	Phenol	5	U
111-44-4	bis(2-Chloroethyl) ether	5	U
95-57-8	2-Chlorophenol	5	U
95-48-7	2-Methylphenol	5	U
108-60-1	2,2'-oxybis-(1-Chloropropane)	5	U
106-44-5	4-Methylphenol	5	U
621-64-7	n-Nitroso-di-n-propylamine	5	U
67-72-1	Hexachloroethane	5	U
98-95-3	Nitrobenzene	5	U
78-59-1	Isophorone	5	U
88-75-5	2-Nitrophenol	5	U
105-67-9	2,4-Dimethylphenol	5	U
111-91-1	bis(2-chloroethoxy) methane	5	U
120-83-2	2,4-Dichlorophenol	5	U
91-20-3	Naphthalene	5	U
106-47-8	4-Chloroaniline	5	U
87-68-3	Hexachlorobutadiene	5	U
59-50-7	4-Chloro-3-methylphenol	5	U
91-57-6	2-Methylnaphthalene	5	U
77-47-4	Hexachlorocyclopentadiene	5	U
88-06-2	2,4,6-Trichlorophenol	5	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronapthalene	5	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5	U
208-96-8	Acenapththylene	5	U
606-20-2	2,6-Dinitrotoluene	5	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5	U
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5	U

1LCC

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EADQ4

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: SDG No.: EADP9

Lab Sample ID: EADQ4 Date Received: 10/03/97

Lab File ID: 43638B.D Date Extracted: 10/07/97

Sample Volume: 1000 (ML) Date Analyzed: 10/08/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
121-14-2	2,4-Dinitrotoluene	5	U
84-66-2	Diethylphthalate	5	U
7005-72-3	4-Chlorophenyl phenyl ether	5	U
86-73-7	Fluorene	5	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	n-Nitrosodiphenylamine(1)	5	U
101-55-3	4-Bromophenyl phenyl ether	5	U
118-74-1	Hexachlorobenzene	5	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	5	U
120-12-7	Anthracene	5	U
84-74-2	Di-n-butylphthalate	5	U
206-44-0	Fluoranthene	5	U
129-00-0	Pyrene	5	U
85-68-7	Butyl benzyl phthalate	5	U
91-94-1	3,3'-Dichlorobenzidine	5	U
56-55-3	Benzo(a) anthracene	5	U
218-01-9	Chrysene	5	U
117-81-7	bis(2-Ethylhexyl) phthalate	5	U
117-84-0	Di-n-octylphthalate	5	U
205-99-2	Benzo(b) fluoranthene	5	U
207-08-9	Benzo(k) fluoranthene	5	U
50-32-8	Benzo(a) pyrene	5	U
193-39-5	Indeno (1,2,3-cd) pyrene	5	U
53-70-3	Dibenz (ah) anthracene	5	U
191-24-2	Benzo (ghi) perylene	5	U

(1) - Cannot be separated from Diphenylamine

1LCF

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EADQ4

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: ____ SDG No.: EADP9

Lab Sample ID: EADQ4 Date Received: 10/03/97

Lab File ID: 43638B.D Date Extracted: 10/07/97

Sample Volume: 1000 (ML) Date Analyzed: 10/08/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. ug/L	Q

1LCB

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EADQ4RE

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: SDG No.: EADP9

Lab Sample ID: EADQ4RE Date Received: 10/03/97

Lab File ID: 43638RE.D Date Extracted: 10/10/97

Sample Volume: 1000 (ML) Date Analyzed: 10/11/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

RW03 [illegible]

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
108-95-2	Phenol	5	U
111-44-4	bis(2-Chloroethyl) ether	5	U
95-57-8	2-Chlorophenol	5	U
95-48-7	2-Methylphenol	5	U
108-60-1	2,2'-oxybis-(1-Chloropropane)	5	U
106-44-5	4-Methylphenol	5	U
621-64-7	n-Nitroso-di-n-propylamine	5	U
67-72-1	Hexachloroethane	5	U
98-95-3	Nitrobenzene	5	U
78-59-1	Isophorone	5	U
88-75-5	2-Nitrophenol	5	U
105-67-9	2,4-Dimethylphenol	5	U
111-91-1	bis(2-chloroethoxy) methane	5	U
120-83-2	2,4-Dichlorophenol	5	U
91-20-3	Naphthalene	5	U
106-47-8	4-Chloroaniline	5	U
87-68-3	Hexachlorobutadiene	5	U
59-50-7	4-Chloro-3-methylphenol	5	U
91-57-6	2-Methylnaphthalene	5	U
77-47-4	Hexachlorocyclopentadiene	5	U
88-06-2	2,4,6-Trichlorophenol	5	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronapthalene	5	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5	U
208-96-8	Acenapththylene	5	U
606-20-2	2,6-Dinitrotoluene	5	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5	U
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5	U

J SRM 1-7-98

1LCC

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EADQ4RE

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EADP9

Lab Sample ID: EADQ4RE Date Received: 10/03/97

Lab File ID: 43638RE.D Date Extracted: 10/10/97

Sample Volume: 1000 (ML) Date Analyzed: 10/11/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
121-14-2	2,4-Dinitrotoluene	5	U
84-66-2	Diethylphthalate	5	U
7005-72-3	4-Chlorophenyl phenyl ether	5	U
86-73-7	Fluorene	5	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	n-Nitrosodiphenylamine(1)	5	U
101-55-3	4-Bromophenyl phenyl ether	5	U
118-74-1	Hexachlorobenzene	5	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	5	U
120-12-7	Anthracene	5	U
84-74-2	Di-n-butylphthalate	5	U
206-44-0	Fluoranthene	5	U
129-00-0	Pyrene	5	U
85-68-7	Butyl benzyl phthalate	5	U
91-94-1	3,3'-Dichlorobenzidine	5	U
56-55-3	Benzo(a) anthracene	5	U
218-01-9	Chrysene	5	U
117-81-7	bis(2-Ethylhexyl) phthalate	5	U
117-84-0	Di-n-octylphthalate	5	U
205-99-2	Benzo(b) fluoranthene	5	U
207-08-9	Benzo(k) fluoranthene	5	U
50-32-8	Benzo(a) pyrene	5	U
193-39-5	Indeno (1,2,3-cd) pyrene	5	U
53-70-3	Dibenz (ah) anthracene	5	U
191-24-2	Benzo (ghi) perylene	5	U

J

SPM 1-7-98

(1) - Cannot be separated from Diphenylamine

1LCF

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EADQ4RE

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EADP9

Lab Sample ID: EADQ4RE Date Received: 10/03/97

Lab File ID: 43638RE.D Date Extracted: 10/10/97

Sample Volume: 1000 (ML) Date Analyzed: 10/11/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. ug/L	Q

1LCB

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EADQ5

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: SDG No.: EADP9

Lab Sample ID: EADQ5 Date Received: 10/03/97

Lab File ID: 43630B.D Date Extracted: 10/07/97

Sample Volume: 1000 (ML) Date Analyzed: 10/08/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

RW 04

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
108-95-2	Phenol	5	U
111-44-4	bis(2-Chloroethyl) ether	5	U
95-57-8	2-Chlorophenol	5	U
95-48-7	2-Methylphenol	5	U
108-60-1	2,2'-oxybis-(1-Chloropropane)	5	U
106-44-5	4-Methylphenol	5	U
621-64-7	n-Nitroso-di-n-propylamine	5	U
67-72-1	Hexachloroethane	5	U
98-95-3	Nitrobenzene	5	U
78-59-1	Isophorone	5	U
88-75-5	2-Nitrophenol	5	U
105-67-9	2,4-Dimethylphenol	5	U
111-91-1	bis(2-chloroethoxy) methane	5	U
120-83-2	2,4-Dichlorophenol	5	U
91-20-3	Naphthalene	5	U
106-47-8	4-Chloroaniline	5	U
87-68-3	Hexachlorobutadiene	5	U
59-50-7	4-Chloro-3-methylphenol	5	U
91-57-6	2-Methylnaphthalene	5	U
77-47-4	Hexachlorocyclopentadiene	5	U
88-06-2	2,4,6-Trichlorophenol	5	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronapthalene	5	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5	U
208-96-8	Acenapththylene	5	U
606-20-2	2,6-Dinitrotoluene	5	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5	U
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5	U

301

1LCC

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EADQ5

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EADP9

Lab Sample ID: EADQ5 Date Received: 10/03/97

Lab File ID: 43630B.D Date Extracted: 10/07/97

Sample Volume: 1000 (ML) Date Analyzed: 10/08/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
121-14-2	2,4-Dinitrotoluene	5	U
84-66-2	Diethylphthalate	5	U
7005-72-3	4-Chlorophenyl phenyl ether	5	U
86-73-7	Fluorene	5	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	n-Nitrosodiphenylamine(1)	5	U
101-55-3	4-Bromophenyl phenyl ether	5	U
118-74-1	Hexachlorobenzene	5	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	5	U
120-12-7	Anthracene	5	U
84-74-2	Di-n-butylphthalate	5	U
206-44-0	Fluoranthene	5	U
129-00-0	Pyrene	5	U
85-68-7	Butyl benzyl phthalate	5	U
91-94-1	3,3'-Dichlorobenzidine	5	U
56-55-3	Benzo(a) anthracene	5	U
218-01-9	Chrysene	5	U
117-81-7	bis(2-Ethylhexyl) phthalate	5	U
117-84-0	Di-n-octylphthalate	5	U
205-99-2	Benzo(b) fluoranthene	5	U
207-08-9	Benzo(k) fluoranthene	5	U
50-32-8	Benzo(a) pyrene	5	U
193-39-5	Indeno (1,2,3-cd) pyrene	5	U
53-70-3	Dibenz (ah) anthracene	5	U
191-24-2	Benzo (ghi) perylene	5	U

(1) - Cannot be separated from Diphenylamine

1LCF

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EADQ5

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EADP9

Lab Sample ID: EADQ5 Date Received: 10/03/97

Lab File ID: 43630B.D Date Extracted: 10/07/97

Sample Volume: 1000 (ML) Date Analyzed: 10/08/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. ug/L	Q

1LCB

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EADQ5RE

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EADP9

Lab Sample ID: EADQ5RE Date Received: 10/03/97

Lab File ID: 43630RE.D Date Extracted: 10/10/97

Sample Volume: 1000 (ML) Date Analyzed: 10/11/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

RW 04
rerun

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
108-95-2	Phenol	5	U
111-44-4	bis(2-Chloroethyl) ether	5	U
95-57-8	2-Chlorophenol	5	U
95-48-7	2-Methylphenol	5	U
108-60-1	2,2'-oxybis-(1-Chloropropane)	5	U
106-44-5	4-Methylphenol	5	U
621-64-7	n-Nitroso-di-n-propylamine	5	U
67-72-1	Hexachloroethane	5	U
98-95-3	Nitrobenzene	5	U
78-59-1	Isophorone	5	U
88-75-5	2-Nitrophenol	5	U
105-67-9	2,4-Dimethylphenol	5	U
111-91-1	bis(2-chloroethoxy) methane	5	U
120-83-2	2,4-Dichlorophenol	5	U
91-20-3	Naphthalene	5	U
106-47-8	4-Chloroaniline	5	U
87-68-3	Hexachlorobutadiene	5	U
59-50-7	4-Chloro-3-methylphenol	5	U
91-57-6	2-Methylnaphthalene	5	U
77-47-4	Hexachlorocyclopentadiene	5	U
88-06-2	2,4,6-Trichlorophenol	5	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronapthalene	5	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5	U
208-96-8	Acenaphthylene	5	U
606-20-2	2,6-Dinitrotoluene	5	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5	U
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5	U

J

SPM
1-7-98

1LCC

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EADQ5RE

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EADP9

Lab Sample ID: EADQ5RE Date Received: 10/03/97

Lab File ID: 43630RE.D Date Extracted: 10/10/97

Sample Volume: 1000 (ML) Date Analyzed: 10/11/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
121-14-2	2,4-Dinitrotoluene	5	U
84-66-2	Diethylphthalate	5	U
7005-72-3	4-Chlorophenyl phenyl ether	5	U
86-73-7	Fluorene	5	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	n-Nitrosodiphenylamine(1)	5	U
101-55-3	4-Bromophenyl phenyl ether	5	U
118-74-1	Hexachlorobenzene	5	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	5	U
120-12-7	Anthracene	5	U
84-74-2	Di-n-butylphthalate	5	U
206-44-0	Fluoranthene	5	U
129-00-0	Pyrene	5	U
85-68-7	Butyl benzyl phthalate	5	U
91-94-1	3,3'-Dichlorobenzidine	5	U
56-55-3	Benzo(a) anthracene	5	U
218-01-9	Chrysene	5	U
117-81-7	bis(2-Ethylhexyl) phthalate	5	U
117-84-0	Di-n-octylphthalate	5	U
205-99-2	Benzo(b) fluoranthene	5	U
207-08-9	Benzo(k) fluoranthene	5	U
50-32-8	Benzo(a) pyrene	5	U
193-39-5	Indeno (1,2,3-cd) pyrene	5	U
53-70-3	Dibenz (ah) anthracene	5	U
191-24-2	Benzo (ghi) perylene	5	U

J SRM 1-7-98

(1) - Cannot be separated from Diphenylamine

1LCF

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EADQ5RE

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EADP9

Lab Sample ID: EADQ5RE Date Received: 10/03/97

Lab File ID: 43630RE.D Date Extracted: 10/10/97

Sample Volume: 1000 (ML) Date Analyzed: 10/11/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. ug/L	Q

1LCB

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EADQ6

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EADP9

Lab Sample ID: EADQ6 Date Received: 10/03/97

Lab File ID: 43629B.D Date Extracted: 10/07/97

Sample Volume: 1000 (ML) Date Analyzed: 10/08/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

RW05

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
108-95-2	Phenol	5	U
111-44-4	bis(2-Chloroethyl) ether	5	U
95-57-8	2-Chlorophenol	5	U
95-48-7	2-Methylphenol	5	U
108-60-1	2,2'-oxybis-(1-Chloropropane)	5	U
106-44-5	4-Methylphenol	5	U
621-64-7	n-Nitroso-di-n-propylamine	5	U
67-72-1	Hexachloroethane	5	U
98-95-3	Nitrobenzene	5	U
78-59-1	Isophorone	5	U
88-75-5	2-Nitrophenol	5	U
105-67-9	2,4-Dimethylphenol	5	U
111-91-1	bis(2-chloroethoxy) methane	5	U
120-83-2	2,4-Dichlorophenol	5	U
91-20-3	Naphthalene	5	U
106-47-8	4-Chloroaniline	5	U
87-68-3	Hexachlorobutadiene	5	U
59-50-7	4-Chloro-3-methylphenol	5	U
91-57-6	2-Methylnaphthalene	5	U
77-47-4	Hexachlorocyclopentadiene	5	U
88-06-2	2,4,6-Trichlorophenol	5	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronapthalene	5	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5	U
208-96-8	Acenapththylene	5	U
606-20-2	2,6-Dinitrotoluene	5	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5	U
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5	U

1LCC

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EADQ6

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EADP9

Lab Sample ID: EADQ6 Date Received: 10/03/97

Lab File ID: 43629B.D Date Extracted: 10/07/97

Sample Volume: 1000 (ML) Date Analyzed: 10/08/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
121-14-2	2,4-Dinitrotoluene	5	U
84-66-2	Diethylphthalate	5	U
7005-72-3	4-Chlorophenyl phenyl ether	5	U
86-73-7	Fluorene	5	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	n-Nitrosodiphenylamine(1)	5	U
101-55-3	4-Bromophenyl phenyl ether	5	U
118-74-1	Hexachlorobenzene	5	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	5	U
120-12-7	Anthracene	5	U
84-74-2	Di-n-butylphthalate	5	U
206-44-0	Fluoranthene	5	U
129-00-0	Pyrene	5	U
85-68-7	Butyl benzyl phthalate	5	U
91-94-1	3,3'-Dichlorobenzidine	5	U
56-55-3	Benzo(a) anthracene	5	U
218-01-9	Chrysene	5	U
117-81-7	bis(2-Ethylhexyl) phthalate	5	U
117-84-0	Di-n-octylphthalate	5	U
205-99-2	Benzo(b) fluoranthene	5	U
207-08-9	Benzo(k) fluoranthene	5	U
50-32-8	Benzo(a) pyrene	5	U
193-39-5	Indeno (1,2,3-cd) pyrene	5	U
53-70-3	Dibenz (ah) anthracene	5	U
191-24-2	Benzo (ghi) perylene	5	U

(1) - Cannot be separated from Diphenylamine

1LCF

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EADQ6

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EADP9

Lab Sample ID: EADQ6 Date Received: 10/03/97

Lab File ID: 43629B.D Date Extracted: 10/07/97

Sample Volume: 1000 (ML) Date Analyzed: 10/08/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. ug/L	Q

1LCB

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EADQ6RE

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EADP9

Lab Sample ID: EADQ6RE Date Received: 10/03/97

Lab File ID: 43629RE.D Date Extracted: 10/10/97

Sample Volume: 1000 (ML) Date Analyzed: 10/11/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

RW05 rerun

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
108-95-2	Phenol	5	U
111-44-4	bis(2-Chloroethyl) ether	5	U
95-57-8	2-Chlorophenol	5	U
95-48-7	2-Methylphenol	5	U
108-60-1	2,2'-oxybis-(1-Chloropropane)	5	U
106-44-5	4-Methylphenol	5	U
621-64-7	n-Nitroso-di-n-propylamine	5	U
67-72-1	Hexachloroethane	5	U
98-95-3	Nitrobenzene	5	U
78-59-1	Isophorone	5	U
88-75-5	2-Nitrophenol	5	U
105-67-9	2,4-Dimethylphenol	5	U
111-91-1	bis(2-chloroethoxy) methane	5	U
120-83-2	2,4-Dichlorophenol	5	U
91-20-3	Naphthalene	5	U
106-47-8	4-Chloroaniline	5	U
87-68-3	Hexachlorobutadiene	5	U
59-50-7	4-Chloro-3-methylphenol	5	U
91-57-6	2-Methylnaphthalene	5	U
77-47-4	Hexachlorocyclopentadiene	5	U
88-06-2	2,4,6-Trichlorophenol	5	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronapthalene	5	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5	U
208-96-8	Acenapththylene	5	U
606-20-2	2,6-Dinitrotoluene	5	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5	U
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5	U

J

GPM 1-7-98

1LCC

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EADQ6RE

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EADP9

Lab Sample ID: EADQ6RE Date Received: 10/03/97

Lab File ID: 43629RE.D Date Extracted: 10/10/97

Sample Volume: 1000 (ML) Date Analyzed: 10/11/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
121-14-2	2,4-Dinitrotoluene	5	U
84-66-2	Diethylphthalate	5	U
7005-72-3	4-Chlorophenyl phenyl ether	5	U
86-73-7	Fluorene	5	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	n-Nitrosodiphenylamine(1)	5	U
101-55-3	4-Bromophenyl phenyl ether	5	U
118-74-1	Hexachlorobenzene	5	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	5	U
120-12-7	Anthracene	5	U
84-74-2	Di-n-butylphthalate	5	U
206-44-0	Fluoranthene	5	U
129-00-0	Pyrene	5	U
85-68-7	Butyl benzyl phthalate	5	U
91-94-1	3,3'-Dichlorobenzidine	5	U
56-55-3	Benzo(a) anthracene	5	U
218-01-9	Chrysene	5	U
117-81-7	bis(2-Ethylhexyl) phthalate	5	U
117-84-0	Di-n-octylphthalate	5	U
205-99-2	Benzo(b) fluoranthene	5	U
207-08-9	Benzo(k) fluoranthene	5	U
50-32-8	Benzo(a) pyrene	5	U
193-39-5	Indeno (1,2,3-cd) pyrene	5	U
53-70-3	Dibenz (ah) anthracene	5	U
191-24-2	Benzo (ghi) perylene	5	U

(1) - Cannot be separated from Diphenylamine

1LCF

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EADQ6RE

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EADP9

Lab Sample ID: EADQ6RE Date Received: 10/03/97

Lab File ID: 43629RE.D Date Extracted: 10/10/97

Sample Volume: 1000 (ML) Date Analyzed: 10/11/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. ug/L	Q

1LCB

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EADQ7

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: SDG No.: EADP9

Lab Sample ID: EADQ7 Date Received: 10/03/97

Lab File ID: 43631B.D Date Extracted: 10/07/97

Sample Volume: 1000 (ML) Date Analyzed: 10/08/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

Rw 06

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
108-95-2	Phenol	5	U
111-44-4	bis(2-Chloroethyl) ether	5	U
95-57-8	2-Chlorophenol	5	U
95-48-7	2-Methylphenol	5	U
108-60-1	2,2'-oxybis-(1-Chloropropane)	5	U
106-44-5	4-Methylphenol	5	U
621-64-7	n-Nitroso-di-n-propylamine	5	U
67-72-1	Hexachloroethane	5	U
98-95-3	Nitrobenzene	5	U
78-59-1	Isophorone	5	U
88-75-5	2-Nitrophenol	5	U
105-67-9	2,4-Dimethylphenol	5	U
111-91-1	bis(2-chloroethoxy) methane	5	U
120-83-2	2,4-Dichlorophenol	5	U
91-20-3	Naphthalene	5	U
106-47-8	4-Chloroaniline	5	U
87-68-3	Hexachlorobutadiene	5	U
59-50-7	4-Chloro-3-methylphenol	5	U
91-57-6	2-Methylnaphthalene	5	U
77-47-4	Hexachlorocyclopentadiene	5	U
88-06-2	2,4,6-Trichlorophenol	5	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronapthalene	5	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5	U
208-96-8	Acenapththylene	5	U
606-20-2	2,6-Dinitrotoluene	5	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5	U
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5	U

1LCC

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EADQ7

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EADP9

Lab Sample ID: EADQ7 Date Received: 10/03/97

Lab File ID: 43631B.D Date Extracted: 10/07/97

Sample Volume: 1000 (ML) Date Analyzed: 10/08/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
121-14-2	2,4-Dinitrotoluene	5	U
84-66-2	Diethylphthalate	5	U
7005-72-3	4-Chlorophenyl phenyl ether	5	U
86-73-7	Fluorene	5	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	n-Nitrosodiphenylamine(1)	5	U
101-55-3	4-Bromophenyl phenyl ether	5	U
118-74-1	Hexachlorobenzene	5	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	5	U
120-12-7	Anthracene	5	U
84-74-2	Di-n-butylphthalate	5	U
206-44-0	Fluoranthene	5	U
129-00-0	Pyrene	5	U
85-68-7	Butyl benzyl phthalate	5	U
91-94-1	3,3'-Dichlorobenzidine	5	U
56-55-3	Benzo(a) anthracene	5	U
218-01-9	Chrysene	5	U
117-81-7	bis(2-Ethylhexyl) phthalate	5	U
117-84-0	Di-n-octylphthalate	5	U
205-99-2	Benzo(b) fluoranthene	5	U
207-08-9	Benzo(k) fluoranthene	5	U
50-32-8	Benzo(a) pyrene	5	U
193-39-5	Indeno (1,2,3-cd) pyrene	5	U
53-70-3	Dibenz (ah) anthracene	5	U
191-24-2	Benzo (ghi) perylene	5	U

(1) - Cannot be separated from Diphenylamine

1LCF

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EADQ7

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EADP9

Lab Sample ID: EADQ7 Date Received: 10/03/97

Lab File ID: 43631B.D Date Extracted: 10/07/97

Sample Volume: 1000 (ML) Date Analyzed: 10/08/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. ug/L	Q

1LCB

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EADQ7RE

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EADP9

Lab Sample ID: EADQ7RE Date Received: 10/03/97

Lab File ID: 43631RE.D Date Extracted: 10/10/97

Sample Volume: 1000 (ML) Date Analyzed: 10/11/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

RWD6 rerun

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
108-95-2	Phenol	5	U
111-44-4	bis(2-Chloroethyl) ether	5	U
95-57-8	2-Chlorophenol	5	U
95-48-7	2-Methylphenol	5	U
108-60-1	2,2'-oxybis-(1-Chloropropane)	5	U
106-44-5	4-Methylphenol	5	U
621-64-7	n-Nitroso-di-n-propylamine	5	U
67-72-1	Hexachloroethane	5	U
98-95-3	Nitrobenzene	5	U
78-59-1	Isophorone	5	U
88-75-5	2-Nitrophenol	5	U
105-67-9	2,4-Dimethylphenol	5	U
111-91-1	bis(2-chloroethoxy) methane	5	U
120-83-2	2,4-Dichlorophenol	5	U
91-20-3	Naphthalene	5	U
106-47-8	4-Chloroaniline	5	U
87-68-3	Hexachlorobutadiene	5	U
59-50-7	4-Chloro-3-methylphenol	5	U
91-57-6	2-Methylnaphthalene	5	U
77-47-4	Hexachlorocyclopentadiene	5	U
88-06-2	2,4,6-Trichlorophenol	5	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronapthalene	5	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5	U
208-96-8	Acenapththylene	5	U
606-20-2	2,6-Dinitrotoluene	5	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5	U
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5	U

J SPM 1-7-98

1LCC

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EADQ7RE

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EADP9

Lab Sample ID: EADQ7RE Date Received: 10/03/97

Lab File ID: 43631RE.D Date Extracted: 10/10/97

Sample Volume: 1000 (ML) Date Analyzed: 10/11/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
121-14-2	2,4-Dinitrotoluene	5	U
84-66-2	Diethylphthalate	5	U
7005-72-3	4-Chlorophenyl phenyl ether	5	U
86-73-7	Fluorene	5	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	n-Nitrosodiphenylamine(1)	5	U
101-55-3	4-Bromophenyl phenyl ether	5	U
118-74-1	Hexachlorobenzene	5	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	5	U
120-12-7	Anthracene	5	U
84-74-2	Di-n-butylphthalate	5	U
206-44-0	Fluoranthene	5	U
129-00-0	Pyrene	5	U
85-68-7	Butyl benzyl phthalate	5	U
91-94-1	3,3'-Dichlorobenzidine	5	U
56-55-3	Benzo(a) anthracene	5	U
218-01-9	Chrysene	5	U
117-81-7	bis(2-Ethylhexyl) phthalate	5	U
117-84-0	Di-n-octylphthalate	5	U
205-99-2	Benzo(b) fluoranthene	5	U
207-08-9	Benzo(k) fluoranthene	5	U
50-32-8	Benzo(a) pyrene	5	U
193-39-5	Indeno (1,2,3-cd) pyrene	5	U
53-70-3	Dibenz (ah) anthracene	5	U
191-24-2	Benzo (ghi) perylene	5	U

J SRM 1-7-98

(1) - Cannot be separated from Diphenylamine

1LCF

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EADQ7RE

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EADP9

Lab Sample ID: EADQ7RE Date Received: 10/03/97

Lab File ID: 43631RE.D Date Extracted: 10/10/97

Sample Volume: 1000 (ML) Date Analyzed: 10/11/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. ug/L	Q

1LCB

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EADZ2

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EADP9

Lab Sample ID: EADZ2 Date Received: 10/02/97

Lab File ID: 43501B.D Date Extracted: 10/06/97

Sample Volume: 1000 (ML) Date Analyzed: 10/07/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

MW29

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
108-95-2	Phenol	16	
111-44-4	bis(2-Chloroethyl) ether	5	U
95-57-8	2-Chlorophenol	5	U
95-48-7	2-Methylphenol	5	U
108-60-1	2,2'-oxybis-(1-Chloropropane)	5	U
106-44-5	4-Methylphenol	5	U
621-64-7	n-Nitroso-di-n-propylamine	5	U
67-72-1	Hexachloroethane	5	U
98-95-3	Nitrobenzene	5	U
78-59-1	Isophorone	5	U
88-75-5	2-Nitrophenol	5	U
105-67-9	2,4-Dimethylphenol	5	U
111-91-1	bis(2-chloroethoxy) methane	5	U
120-83-2	2,4-Dichlorophenol	5	U
91-20-3	Naphthalene	5	U
106-47-8	4-Chloroaniline	5	U
87-68-3	Hexachlorobutadiene	5	U
59-50-7	4-Chloro-3-methylphenol	5	U
91-57-6	2-Methylnaphthalene	5	U
77-47-4	Hexachlorocyclopentadiene	5	U
88-06-2	2,4,6-Trichlorophenol	5	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronapthalene	5	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5	U
208-96-8	Acenapththylene	5	U
606-20-2	2,6-Dinitrotoluene	5	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5	U
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5	U

1LCC

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EADZ2

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: SDG No.: EADP9

Lab Sample ID: EADZ2 Date Received: 10/02/97

Lab File ID: 43501B.D Date Extracted: 10/06/97

Sample Volume: 1000 (ML) Date Analyzed: 10/07/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
121-14-2	2,4-Dinitrotoluene	5	U
84-66-2	Diethylphthalate	5	U
7005-72-3	4-Chlorophenyl phenyl ether	5	U
86-73-7	Fluorene	5	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	n-Nitrosodiphenylamine(1)	5	U
101-55-3	4-Bromophenyl phenyl ether	5	U
118-74-1	Hexachlorobenzene	5	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	5	U
120-12-7	Anthracene	5	U
84-74-2	Di-n-butylphthalate	5	U
206-44-0	Fluoranthene	5	U
129-00-0	Pyrene	5	U
85-68-7	Butyl benzyl phthalate	5	U
91-94-1	3,3'-Dichlorobenzidine	5	U
56-55-3	Benzo(a) anthracene	5	U
218-01-9	Chrysene	5	U
117-81-7	bis(2-Ethylhexyl) phthalate	5	U
117-84-0	Di-n-octylphthalate	5	U
205-99-2	Benzo(b) fluoranthene	5	U
207-08-9	Benzo(k) fluoranthene	5	U
50-32-8	Benzo(a) pyrene	5	U
193-39-5	Indeno (1,2,3-cd) pyrene	5	U
53-70-3	Dibenz (ah) anthracene	5	U
191-24-2	Benzo (ghi) perylene	5	U

(1) - Cannot be separated from Diphenylamine

1LCF

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EADZ2

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: SDG No.: EADP9

Lab Sample ID: EADZ2 Date Received: 10/02/97

Lab File ID: 43501B.D Date Extracted: 10/06/97

Sample Volume: 1000 (ML) Date Analyzed: 10/07/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

Number TICs found: 3

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. ug/L	Q
1.	unknown	8.27	23	J
2. 000112-34-5	Ethanol, 2-(2-butoxyethoxy)-	9.78	11	JN
3.	unknown	11.70	12	J

1LCB

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EADZ3

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EADP9

Lab Sample ID: EADZ3 Date Received: 10/02/97

Lab File ID: 43502B.D Date Extracted: 10/06/97

Sample Volume: 1000 (ML) Date Analyzed: 10/07/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

MW29 duplicate

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
108-95-2	Phenol	17	
111-44-4	bis(2-Chloroethyl) ether	5	U
95-57-8	2-Chlorophenol	5	U
95-48-7	2-Methylphenol	5	U
108-60-1	2,2'-oxybis-(1-Chloropropane)	5	U
106-44-5	4-Methylphenol	5	U
621-64-7	n-Nitroso-di-n-propylamine	5	U
67-72-1	Hexachloroethane	5	U
98-95-3	Nitrobenzene	5	U
78-59-1	Isophorone	5	U
88-75-5	2-Nitrophenol	5	U
105-67-9	2,4-Dimethylphenol	5	U
111-91-1	bis(2-chloroethoxy) methane	5	U
120-83-2	2,4-Dichlorophenol	5	U
91-20-3	Naphthalene	5	U
106-47-8	4-Chloroaniline	5	U
87-68-3	Hexachlorobutadiene	5	U
59-50-7	4-Chloro-3-methylphenol	5	U
91-57-6	2-Methylnaphthalene	5	U
77-47-4	Hexachlorocyclopentadiene	5	U
88-06-2	2,4,6-Trichlorophenol	5	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronapthalene	5	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5	U
208-96-8	Acenapththylene	5	U
606-20-2	2,6-Dinitrotoluene	5	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5	U
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5	U

1LCC

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EADZ3

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EADP9

Lab Sample ID: EADZ3 Date Received: 10/02/97

Lab File ID: 43502B.D Date Extracted: 10/06/97

Sample Volume: 1000 (ML) Date Analyzed: 10/07/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
121-14-2	2,4-Dinitrotoluene	5	U
84-66-2	Diethylphthalate	5	U
7005-72-3	4-Chlorophenyl phenyl ether	5	U
86-73-7	Fluorene	5	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	n-Nitrosodiphenylamine(1)	5	U
101-55-3	4-Bromophenyl phenyl ether	5	U
118-74-1	Hexachlorobenzene	5	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	5	U
120-12-7	Anthracene	5	U
84-74-2	Di-n-butylphthalate	5	U
206-44-0	Fluoranthene	5	U
129-00-0	Pyrene	5	U
85-68-7	Butyl benzyl phthalate	5	U
91-94-1	3,3'-Dichlorobenzidine	5	U
56-55-3	Benzo(a) anthracene	5	U
218-01-9	Chrysene	5	U
117-81-7	bis(2-Ethylhexyl) phthalate	5	U
117-84-0	Di-n-octylphthalate	5	U
205-99-2	Benzo(b) fluoranthene	5	U
207-08-9	Benzo(k) fluoranthene	5	U
50-32-8	Benzo(a) pyrene	5	U
193-39-5	Indeno (1,2,3-cd) pyrene	5	U
53-70-3	Dibenz (ah) anthracene	5	U
191-24-2	Benzo (ghi) perylene	5	U

(1) - Cannot be separated from Diphenylamine

1LCF

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EADZ3

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: _____ SDG No.: EADP9

Lab Sample ID: EADZ3 Date Received: 10/02/97

Lab File ID: 43502B.D Date Extracted: 10/06/97

Sample Volume: 1000 (ML) Date Analyzed: 10/07/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

Number TICs found: 4

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. ug/L	Q
1.	Unknown	8.37	41	J
2. 000112-34-5	Ethanol, 2-(2-butoxyethoxy)-	9.78	12	JN
3.	Unknown	11.67	10	J
4.	Unknown	11.70	11	J

2LCC
LOW CONC. WATER PESTICIDE SURROGATE RECOVERY

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: SDG No.: EADP9

GC Column(1): DB-1701 ID: 0.32 (mm) GC Column(2): DB-17 ID: 0.32 (mm)

	EPA SAMPLE NO.	TCX(1) %REC #	TCX(2) %REC #	DCB(1) %REC #	DCB(2) %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	EADP9	105	100	80	80			0
02	EADQ0	100	85	90	90			0
03	EADQ1	100	95	90	90			0
04	EADQ2	80	80	75	70			0
05	EADQ3	85	85	85	85			0
06	EADQ4	85	80	85	85			0
07	EADQ5	85	85	75	75			0
08	EADQ6	90	85	49	46			0
09	EADQ7	75	75	85	80			0
10	EADZ2	100	95	70	70			0
11	EADZ3	90	90	70	70			0
12	PBLKJ9	100	100	75	70			0
13	PBLKK1	80	80	85	80			0
14	PLCSG6	105	100	80	80			0
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								

QC LIMITS

		%REC
S1 TCX	= Tetrachloro-m-xylene	(30-150)
S2 DCB	= Decachlorobiphenyl	(30-150)

Column to be used to flag recovery values.
* Values outside of QC limits.
D Surrogate diluted out.

3LCC

LOW CONC. WATER PESTICIDE LAB CONTROL SAMPLE RECOVERY

EPA SAMPLE NO.

PLCSG6

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: SDG No.: EADP9

Lab Sample ID: LCS100697 LCS Lot No.: A006181

LCS Aliquot: 1000 (uL) Date Extracted: 10/06/97

Concentrated Extract Volume: 2000(uL) Date Analyzed: 10/09/97

Injection Volume: 1 (uL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) Y

Instrument ID(1): 3400C GC Column(1):DB-1701 ID:0.32 (mm)

COMPOUND	AMOUNT ADDED (ng)	AMOUNT RECOVERED (ng)	%REC #	QC LIMITS
gamma-BHC (Lindane)	0.050	0.054	108	50-120
Heptachlor epoxide	0.050	0.043	86	50-150
Dieldrin	0.10	0.10	100	30-130
4,4'-DDE	0.10	0.12	120	50-150
Endrin	0.10	0.12	120	50-120
Endosulfan sulfate	0.10	0.091	91	50-120
gamma-Chlordane	0.050	0.056	112	30-130

Instrument ID(2): 3400D GC Column(2):DB-17 ID:0.32 (mm)

COMPOUND	AMOUNT ADDED (ng)	AMOUNT RECOVERED (ng)	%REC #	QC LIMITS
gamma-BHC (Lindane)	0.050	0.051	102	50-120
Heptachlor epoxide	0.050	0.046	92	50-150
Dieldrin	0.10	0.093	93	30-130
4,4'-DDE	0.10	0.089	89	50-150
Endrin	0.10	0.11	110	50-120
Endosulfan sulfate	0.10	0.090	90	50-120
gamma-Chlordane	0.050	0.053	106	30-130

Column to be used to flag LCS recovery with an asterisk.
* Values outside of QC limits.
LCS Recovery: 0 outside limits out of 14 total.

COMMENTS:

4LCC

LOW CONC. WATER PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PBLKJ9

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: SDG No.: EADP9

Date Extracted: 10/06/97 Lab Sample ID: MB100697

Date Analyzed (1): 10/09/97 Date Analyzed (2): 10/09/97

Time Analyzed (1): 1010 Time Analyzed (2): 1010

Instrument ID (1): 3400C Instrument ID (2): 3400D

GC Column (1): DB-1701 ID: 0.32(mm) GC Column (2): DB-17 ID: 0.32(mm)

Sulfur Cleanup (Y/N) Y Extraction:(SepF/Cont) SEPF

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND LCS:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	EADP9	43503	10/09/97	10/09/97
02	EADQ0	43505	10/09/97	10/09/97
03	EADQ1	43506	10/09/97	10/09/97
04	EADZ2	43501	10/09/97	10/09/97
05	EADZ3	43502	10/09/97	10/09/97
06	PLCSG6	LCS100697	10/09/97	10/09/97
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

COMMENTS:

4LCC

LOW CONC. WATER PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PBLKK1

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: SDG No.: EADP9

Date Extracted: 10/07/97 Lab Sample ID: MB100797

Date Analyzed (1): 10/09/97 Date Analyzed (2): 10/09/97

Time Analyzed (1): 0944 Time Analyzed (2): 0944

Instrument ID (1): 3400C Instrument ID (2): 3400D

GC Column (1): DB-1701 ID: 0.32(mm) GC Column (2): DB-17 ID: 0.32(mm)

Sulfur Cleanup (Y/N) Y Extraction:(SepF/Cont) SEPF

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND LCS:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	EADQ2	43628	10/09/97	10/09/97
02	EADQ3	43632	10/09/97	10/09/97
03	EADQ4	43638	10/09/97	10/09/97
04	EADQ5	43630	10/09/97	10/09/97
05	EADQ6	43629	10/09/97	10/09/97
06	EADQ7	43631	10/09/97	10/09/97
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

COMMENTS:

FORM IV LCP OLC02.0

1LCD

LOW CONC. WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLKJ9

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: SDG No.: EADP9

Lab Sample ID: MB100697 Date Received:

Sample Volume: 1000.00 (mL) Date Extracted: 10/06/97

Concentrated Extract Volume: 2000(uL) Date Analyzed: 10/09/97

Injection Volume: 1 (uL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) Y Extraction: (SepF/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U
8001-35-2	Toxaphene	1.0	U

1LCD

LOW CONC. WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLKK1

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: SDG No.: EADP9

Lab Sample ID: MB100797 Date Received:

Sample Volume: 1000.00 (mL) Date Extracted: 10/07/97

Concentrated Extract Volume: 2000(uL) Date Analyzed: 10/09/97

Injection Volume: 1 (uL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) Y Extraction: (SepF/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U
8001-35-2	Toxaphene	1.0	U

1LCD

LOW CONC. WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EADP9

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: SDG No.: EADP9

Lab Sample ID: 43503 Date Received: 10/02/97

Sample Volume: 1000.00 (mL) Date Extracted: 10/06/97

Concentrated Extract Volume: 2000(uL) Date Analyzed: 10/09/97 MW12

Injection Volume: 1 (uL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) Y Extraction: (SepF/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U
8001-35-2	Toxaphene	1.0	U

1LCD

LOW CONC. WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EADQ0

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: SDG No.: EADP9

Lab Sample ID: 43505 Date Received: 10/02/97 MW51

Sample Volume: 1000.00 (mL) Date Extracted: 10/06/97

Concentrated Extract Volume: 2000(uL) Date Analyzed: 10/09/97

Injection Volume: 1 (uL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) Y Extraction: (SepF/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.0054	JP
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.0073	JP
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U
8001-35-2	Toxaphene	1.0	U

1LCD

LOW CONC. WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EADQ1

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: SDG No.: EADP9

Lab Sample ID: 43506 Date Received: 10/02/97

Sample Volume: 1000.00 (mL) Date Extracted: 10/06/97

Concentrated Extract Volume: 2000(uL) Date Analyzed: 10/09/97

Injection Volume: 1 (uL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) Y Extraction: (SepF/Cont) SEPF

EB02

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U
8001-35-2	Toxaphene	1.0	U

1LCD

LOW CONC. WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EADQ2

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: SDG No.: EADP9

Lab Sample ID: 43628 Date Received: 10/03/97 RWD1

Sample Volume: 1000.00 (mL) Date Extracted: 10/07/97

Concentrated Extract Volume: 2000(uL) Date Analyzed: 10/09/97

Injection Volume: 1 (uL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) Y Extraction: (SepF/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U
8001-35-2	Toxaphene	1.0	U

1LCD

LOW CONC. WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EADQ3

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: SDG No.: EADP9

Lab Sample ID: 43632 Date Received: 10/03/97

Sample Volume: 1000.00 (mL) Date Extracted: 10/07/97

Concentrated Extract Volume: 2000 (uL) Date Analyzed: 10/09/97 RW 02

Injection Volume: 1 (uL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) Y Extraction: (SepF/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U
8001-35-2	Toxaphene	1.0	U

1LCD

LOW CONC. WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EADQ4

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: SDG No.: EADP9

Lab Sample ID: 43638 Date Received: 10/03/97

Sample Volume: 1000.00 (mL) Date Extracted: 10/07/97 RW03

Concentrated Extract Volume: 2000 (uL) Date Analyzed: 10/09/97

Injection Volume: 1 (uL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) Y Extraction: (SepF/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U
8001-35-2	Toxaphene	1.0	U

1LCD

LOW CONC. WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EADQ5

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: SDG No.: EADP9

Lab Sample ID: 43630 Date Received: 10/03/97 RW04

Sample Volume: 1000.00 (mL) Date Extracted: 10/07/97

Concentrated Extract Volume: 2000(uL) Date Analyzed: 10/09/97

Injection Volume: 1 (uL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) Y Extraction: (SepF/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U
8001-35-2	Toxaphene	1.0	U

1LCD

LOW CONC. WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EADQ6

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: SDG No.: EADP9

Lab Sample ID: 43629 Date Received: 10/03/97

RW05

Sample Volume: 1000.00 (mL) Date Extracted: 10/07/97

Concentrated Extract Volume: 2000(uL) Date Analyzed: 10/09/97

Injection Volume: 1 (uL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) Y Extraction: (SepF/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U
8001-35-2	Toxaphene	1.0	U

1LCD

LOW CONC. WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EADQ7

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: SDG No.: EADP9

Lab Sample ID: 43631 Date Received: 10/03/97

Sample Volume: 1000.00 (mL) Date Extracted: 10/07/97 RW 06

Concentrated Extract Volume: 2000(uL) Date Analyzed: 10/09/97

Injection Volume: 1 (uL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) Y Extraction: (SepF/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U
8001-35-2	Toxaphene	1.0	U

1LCD

LOW CONC. WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EADZ2

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: SDG No.: EADP9

Lab Sample ID: 43501 Date Received: 10/02/97 MW29

Sample Volume: 1000.00 (mL) Date Extracted: 10/06/97

Concentrated Extract Volume: 2000 (uL) Date Analyzed: 10/09/97

Injection Volume: 1 (uL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) Y Extraction: (SepF/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U
8001-35-2	Toxaphene	1.0	U

1LCD

LOW CONC. WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EADZ3

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25704 SAS No.: SDG No.: EADP9

Lab Sample ID: 43502 Date Received: 10/02/97

Sample Volume: 1000.00 (mL) Date Extracted: 10/06/97

Concentrated Extract Volume: 2000(uL) Date Analyzed: 10/09/97

Injection Volume: 1 (uL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) Y Extraction: (SepF/Cont) SEPF

MW 29 duplicate

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U
8001-35-2	Toxaphene	1.0	U

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

ESD Central Regional Laboratory
Data Tracking Form for Contract Samples

Data Set No: _____ CERCLIS No: IN

Case No: 25704 Site Name Location: American Chem SVCS

Contractor or EPA Lab: Encotec Data User: B&V

No. of Samples: 14 Date Sampled or Data Received: 10-29-97

Have Chain-of-Custody records been received? Yes ✓ No ___
Have traffic reports or packing lists been received? Yes ✓ No ___
If no, are traffic report or packing list numbers written on the chain-of-custody record? Yes ✓ No ___
If no, which traffic report or packing list numbers are missing?

_____ _____ _____ _____

_____ _____ _____ _____

Are basic data forms in? Yes ✓ No ___
No of samples claimed: 14 No. of samples received: 14

Received by: Lynette Burnett Date: 10-29-97

Received by LSSS: Lynette Burnett Date: 10-29-97

Review started: 11/5/97 Reviewer Signature: [illegible]

Total time spent on review: 11 Date review completed: 11/12/97

Copied by: Lynette Burnett Date: 11-18-97

Mailed to user by: Lynette Burnett Date: 11-18-97

DATA USER:
Please fill in the blanks below and return this form to:
Sylvia Griffen, Data mgmt. Coordinator, Region V, 5SCRL

Data received by: _____ Date: _____

Data review received by: _____ Date: _____

Inorganic Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK
Organic Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK
Dioxin Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK
SAS Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK

PROBLEMS: Please indicate reasons why data are not suitable for your uses.

_____

_____

Received by Data Mgmt. Coordinator for Files. Data: _____

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 5 CENTRAL REGIONAL LABORATORY

536 SOUTH CLARK STREET

CHICAGO, ILLINOIS 60605

Date: DEC 15 1997

Subject: Review of Region 5 Data for **AMERICAN CHEMICAL SERVICES**

From: Charles T. Elly, Director Chuck Elly
Region 5 Central Regional Laboratory

To: B&V

Attached are the results for **AMERICAN CHEMICAL SERVICES**
CRL request number **970649**
for analyses for **Cyanide**
Results are reported for sample designations: 97ZB15S01, 97ZB15D01, 97ZB15S02, 97ZB15S03, 97ZB15S04, 97ZB15S05, 97ZB15S06, 97ZB15S07, and 97ZB15R01.

Results Status:

(X) Acceptable for Use: **Cyanide**
( ) Data Qualified, but Acceptable for use:
( ) Data Unacceptable for Use:

( ) Sewer Disposal Criteria Met;

Comments on Data Quality by Reviewer:

All the water samples submitted for Cyanide analysis were assayed and the results are attached. Required quality control criteria for the laboratory, method, and system performance audits were evaluated and determined to be within the limits.

Comments on Sample Results:

All the cyanide results are acceptable for use.

Comments by Laboratory Director or Quality Control Coordinator:

Francis A. Awanya 12/12/97
Review and Date (X) Reviewed ( ) Unreviewed

12 Dec 97
Team Leader and Date (✓) Reviewed ( ) Unreviewed

Chuck Eldy 12/12/97
QC Coordinator and Date ( ) Reviewed (✓) Unreviewed

Sylvia Griffin DEC 15 1997
Data Management Coordinator and Date Received

Date Transmitted DEC 15 1997

Please sign and date this form below and return it with any comments to:

Sylvia Griffin
Data Management Coordinator
Region 5 Central Regional Laboratory
SL - 10C

Received by and Date

Comments:

CYANIDE RESULTS (UG/L) FOR DATA SET 970649

Sample #	Analysis Date	Concentration	Analyst	Date
97ZB15S01	10-7-97	8U	J. Gary	10-9-97
97ZB15D01	10-7-97	8U	J. Gary	10-9-97
97ZB15S02	10-7-97	8U	J. Gary	10-9-97
97ZB15S03	10-7-97	8U	J. Gary	10-9-97
97ZB15S04	10-7-97	8U	J. Gary	10-9-97
97ZB15S05	10-7-97	8U	J. Gary	10-9-97
97ZB15S06	10-7-97	8U	J. Gary	10-9-97
97ZB15S07	10-7-97	8U	J. Gary	10-9-97
97ZB15R01	10-7-97	8U	J. Gary	10-9-97

12/12/97

FAO

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 5 CENTRAL REGIONAL LABORATORY

536 SOUTH CLARK STREET

CHICAGO, ILLINOIS 60605

Date: DEC 15 1997

Subject: Review of Region 5 Data for **AMERICAN CHEMICAL SERVICES**

From: Charles T. Elly, Director Chuck Elly
Region 5 Central Regional Laboratory

To: B&V

Attached are the results for **AMERICAN CHEMICAL SERVICES**
CRL request number **970661**
for analyses for **Cyanide**
Results are reported for sample designations: 97ZB~~05~~15S08 and 97ZB~~05~~15S09.

Results Status:

(X) Acceptable for Use: **Cyanide**
( ) Data Qualified, but Acceptable for use:
( ) Data Unacceptable for Use:

( ) Sewer Disposal Criteria Met;

Comments on Data Quality by Reviewer:

All the water samples submitted for Cyanide analysis were assayed and the results are attached. Required quality control criteria for the laboratory, method, and system performance audits were evaluated and determined to be within the limits.

Comments on Sample Results:

All the cyanide results are acceptable for use.

Comments by Laboratory Director or Quality Control Coordinator:

Francis A. Awanga 12/12/97
Review and Date (X) Reviewed ( ) Unreviewed

[illegible] 12 Dec 97
Team Leader and Date (X) Reviewed ( ) Unreviewed

Chuck Eddy 12/12/97
QC Coordinator and Date ( ) Reviewed (X) Unreviewed

Sylvia Griffin DEC 15 1997
Data Management Coordinator and Date Received

Date Transmitted DEC 15 1997

Please sign and date this form below and return it with any comments to:

Sylvia Griffin
Data Management Coordinator
Region 5 Central Regional Laboratory
SL - 10C

Received by and Date

Comments:

CYANIDE RESULTS (UG/L) FOR DATA SET 970661

Sample #	Analysis Date	Concentration	Analyst	Date
97ZB15S08	10-7-97	8U	J. Gary	10-9-97
97ZB15S09	10-7-97	8U	J. Gary	10-9-97

FAA 12/11/97

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 5 CENTRAL REGIONAL LABORATORY

536 SOUTH CLARK STREET

CHICAGO, ILLINOIS 60605

Date: DEC 15 1997

Subject: Review of Region 5 Data for **AMERICAN CHEMICAL SERVICES**

From: Charles T. Elly, Director Chuck Elly
Region 5 Central Regional Laboratory

97ZB15

To: B&V

Attached are the results for **AMERICAN CHEMICAL SERVICES**
CRL request number **980001**
for analyses for **Cyanide** 97ZB15S10 97ZB15D02
Results are reported for sample designations: ~~97ZB02S10,~~ 98ZB02S11, ~~98ZB02D1~~1, 98ZB02S12, 98ZB02S13, 98ZB02S14, 98ZB02S15, 98ZB02S16, 98ZB02S17, 98ZB02S18, 98ZB02R02, and 98ZB02S02.

Results Status:

(X) Acceptable for Use: **Cyanide**
( ) Data Qualified, but Acceptable for use:
( ) Data Unacceptable for Use:

( ) Sewer Disposal Criteria Met;

Comments on Data Quality by Reviewer:

All the water samples submitted for Cyanide analysis were assayed and the results are attached. Required quality control criteria for the laboratory, method, and system performance audits were evaluated and determined to be within the limits.

Comments on Sample Results:

All the cyanide results are acceptable for use.

Comments by Laboratory Director or Quality Control Coordinator:

Francis A. Aranyos 12/12/97
Review and Date (X) Reviewed ( ) Unreviewed

Johnson 12 Dec 97
Team Leader and Date (X) Reviewed ( ) Unreviewed

Chuck Elly 12/12/97
QC Coordinator and Date ( ) Reviewed (X) Unreviewed

Sylvia Griffin DEC 15 1997
Data Management Coordinator and Date Received

Date Transmitted DEC 15 1997

Please sign and date this form below and return it with any comments to:

Sylvia Griffin
Data Management Coordinator
Region 5 Central Regional Laboratory
SL - 10C

Received by and Date

Comments:

CYANIDE RESULTS (UG/L) FOR DATA SET 980001

Sample #	Analysis Date	Concentration	Analyst	Date
97ZB02S10	10-7-97	8U	J Gary	12-12-97
98ZB02S11	10-7-97	8U	J Gary	12-12-97
98ZB02S12	10-7-97	8U	J. Gary	12-12-97
98ZB02S13	10-7-97	8U	J. Gary	12-12-97
98ZB02S14	10-7-97	8U	J. Gary	12-12-97
98ZB02S15	10-7-97	8U	J. Gary	12-12-97
98ZB02S16	10-7-97	8U	J. Gary	12-12-97
98ZB02S17	10-7-97	8U	J. Gary	12-12-97
98ZB02S18	10-7-97	8U	J. Gary	12-12-97
98ZB02R02	10-7-97	8U	J. Gary	12-12-97
97ZB02D02	10-7-97	8U	J. Gary	12-12-97

FOA 12/12/97

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 5 CENTRAL REGIONAL LABORATORY

536 SOUTH CLARK STREET

CHICAGO, ILLINOIS 60605

Date: NOV 06 1997

Subject: Review of Region 5 Data for American Chemical Services Code:J7

From: Charles T. Elly, Director Chuck Elly
Region 5 Central Regional Laboratory

To: B&V

Attached are the results for American Chemical Services Code:J7
CRL request number 970649
for analyses for Antimony, Arsenic, Cadmium, Lead, Mercury, Selenium and Thallium
Results are reported for sample designations: 97ZB15S01, 97ZB15D01, 97ZB15S02, 97ZB15S03, 97ZB15S04, 97ZB15S05, 97ZB15S06, 97ZB15S07 and 97ZB15R01

Results Status:
(x) Acceptable for Use
( ) Data Qualified, but Acceptable for use
( ) Data Unacceptable for Use

Comments on Data Quality by Reviewer

High concentrations of arsenic were found in some of the samples, which may pose a health risk. It appears from both the AA and ICP data that 97ZB15D01 is a field duplicate of 97ZB15S02, and not 97ZB15S01.

Comments by Laboratory Director or Quality Control Coordinator

Review Record for American Chemical Services Code:J7

6 Nov 97

Peer/Task Monitor Review and Date (✓) Reviewed ( ) Unreviewed

6 Nov 97

Team Leader and Date (✓) Reviewed ( ) Unreviewed

Chuck E Ellis 11/6/97

QC Coordinator and Date ( ) Reviewed (✓) Unreviewed
(position vacant)

Sylvia Griffin NOV 06 1997

Data Management Coordinator and Date Received

Date Transmitted NOV 06 1997

Please sign and date this form below and return it with any comments to:

Sylvia Griffin
Data Management Coordinator
Region 5 Central Regional Laboratory
ML - 10C

Received by and Date

Comments:

SAMPLE RESULTS (ug/L) FOR DATA SET 970649(WATER)

	Sample # 97ZB15	As	Sb	Cd	Pb	Se	Tl
M4S	S01	6.2	1 U	0.2U	2U	2U	2U
M4D duplicate	D01	0.9	1 U	0.2U	2U	1U	2U
M4D	S02	1.0	1 U	0.2U	2U	1U	2U
M3S	S03	16	1 U	0.2U	3	2U	2U
M1S	S04	1.6	1 U	0.2U	2U	1U	2U
MW15	S05	61	1 U	0.2U	3	2U	2U
MW8	S06	5.1	1 U	0.2U	4	1U	2U
MW10C	S07	8.7	1 U	0.3	14	2U	2U
EB01	R01	0.8U	1 U	0.2U	2U	1U	2U
	Date of Analysis	10-15-97	10-14-97	10-23-97	10-16-97	10-15-97	10-17-97
	Analyst	B. Green	L. Lee	B. Green	B. Green	B. Green	B. Green
	Date	11-5-97	11-5-97	11-5-97	11-5-97	11-5-97	11-5-97

6 nov 97

MERCURY RESULTS (UG/L) FOR DATA SET 970649

	Sample #	Analysis Date	Concentration	Analyst	Date
M4S	97ZB15S01	10-02-97	0.2 U	Z. Leonard	10.31.97
M4D duplicate	97ZB15D01	10-02-97	0.2 U	Z. Leon	10.31.97
M4D	97ZB15S02	10-02-97	0.3	Z. Leon	10.31.97
M3S	97ZB15S03	10-02-97	0.2 U	Z. Leon	10.31.97
M1S	97ZB15S04	10-02-97	0.2	Z. Leon	10.31.97
MW15	97ZB15S05	10-02-97	0.2 U	Z. Leon	10.31.97
MW8	97ZB15S06	10-02-97	0.2	Z. Leon	10.31.97
MW10C	97ZB15S07	10-02-97	0.2 U	Z. Leon	10.31.97
EB01	97ZB15R01	10-02-97	0.2 U	Z. Leon	10.31.97

Jim Garratt

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 5 CENTRAL REGIONAL LABORATORY

536 SOUTH CLARK STREET

CHICAGO, ILLINOIS 60605

Date: NOV 21 1997

Subject: Review of Region 5 Data for American Chemical Services Code:J7

From: Charles T. Elly, Director
Region 5 Central Regional Laboratory

To: B&V

Attached are the results for American Chemical Services Code:J7
CRL request number 980001
for analyses for ICP
Results are reported for sample designations: 97ZB15S10, 97ZB15D02, 98ZB02S11, 98ZB02S12, 98ZB02S13, 98ZB02S14, 98ZB02S15, 98ZB02S16, 98ZB02S17, 98ZB02S18 and 98ZB02R02

Results Status:
(x) Acceptable for Use
( ) Data Qualified, but Acceptable for use
( ) Data Unacceptable for Use

Comments on Data Quality by Reviewer

Some sample numbers were altered at CRL upon consultation with the field personnel because collection took place after the turn of the fiscal year. Aluminum was reported at an elevated detection limit due to problems with the analytical channel for that element. If reanalysis is required, it may be requested.

Comments by Laboratory Director or Quality Control Coordinator

Review Record for American Chemical Services Code:J7

[signature] 18 Nov 97

Peer/Task Monitor Review and Date (✓) Reviewed ( ) Unreviewed

[signature] 18 Nov 97

Team Leader and Date (✓) Reviewed ( ) Unreviewed

[signature] for CTE

QC Coordinator and Date ( ) Reviewed (✓) Unreviewed
(position vacant)

Sylvia Griffin NOV 21 1997

Data Management Coordinator and Date Received

Date Transmitted NOV 21 1997

Please sign and date this form below and return it with any comments to:

Sylvia Griffin
Data Management Coordinator
Region 5 Central Regional Laboratory
ML - 10C

Received by and Date

Comments:

MW29
duplicate

EPA CRL - REGION V
FINAL RESULTS REPORT
REPORT PRODUCED ON: 18 NOVEMBER 97

SAMPLE OGANIZATION:B & V
SAMPLE BATCH ID: 980001
SAMPLE REQUESTOR: STEVE MRKVICKA
ACCOUNT NO: TFA301
LABORATORY: ESAT
SAMPLE FACILITY: AMERICAN CHEMICAL SERVICES

SAMPLE: 97ZB15S10
FIELD: 97ZB15S10

COLLECTED:
RECEIVED: 1 OCTOBER 97
ANALYZED: 14 OCTOBER 97

COMPOUND	AMOUNT	(Units)
Aluminum	100 U	(ug/L)
Barium	115	(ug/L)
Beryllium	1 U	(ug/L)
Calcium	91800	(ug/L)
Chromium	10 U	(ug/L)
Cobalt	6 U	(ug/L)
Copper	6 U	(ug/L)
Iron	5820	(ug/L)
Magnesium	40300	(ug/L)
Manganese	94.7	(ug/L)
Nickel	20 U	(ug/L)
Potassium	1590	(ug/L)
Silver	6 U	(ug/L)
Sodium	70000	(ug/L)
Vanadium	5 U	(ug/L)
Zinc	40 U	(ug/L)

ANALYZED BY: [signature] 11-13-97

[signature] 18 Nov 97

MW12

EPA CRL - REGION V
FINAL RESULTS REPORT
REPORT PRODUCED ON: 18 NOVEMBER 97

SAMPLE OGANIZATION:B & V SAMPLE BATCH ID: 980001
SAMPLE REQUESTOR: STEVE MRKVICKA ACCOUNT NO: TFA301
LABORATORY: ESAT SAMPLE FACILITY: AMERICAN CHEMICAL SERVICES

SAMPLE: 98ZB02S11 FIELD: 97ZB15S11

COLLECTED: RECEIVED: 1 OCTOBER 97 ANALYZED: 14 OCTOBER 97

COMPOUND	AMOUNT	(Units)
Aluminum	2000	(ug/L)
Barium	78.5	(ug/L)
Beryllium	1 U	(ug/L)
Calcium	46900	(ug/L)
Chromium	10 U	(ug/L)
Cobalt	6 U	(ug/L)
Copper	9.1	(ug/L)
Iron	28800	(ug/L)
Magnesium	16600	(ug/L)
Manganese	1210	(ug/L)
Nickel	20 U	(ug/L)
Potassium	2420	(ug/L)
Silver	6 U	(ug/L)
Sodium	8160	(ug/L)
Vanadium	23.1	(ug/L)
Zinc	40 U	(ug/L)

ANALYZED BY: RD 11-18-97

18 Nov 97

MW 51

EPA CRL - REGION V
FINAL RESULTS REPORT
REPORT PRODUCED ON: 18 NOVEMBER 97

SAMPLE OGANIZATION:B & V SAMPLE BATCH ID: 980001
SAMPLE REQUESTOR: STEVE MRKVICKA ACCOUNT NO: TFA301
LABORATORY: ESAT SAMPLE FACILITY: AMERICAN CHEMICAL SERVICES

SAMPLE: 98ZB02S12 FIELD: 97ZB15S12

COLLECTED: RECEIVED: 1 OCTOBER 97 ANALYZED: 14 OCTOBER 97

COMPOUND	AMOUNT	(Units)
Aluminum	830	(ug/L)
Barium	383	(ug/L)
Beryllium	1 U	(ug/L)
Calcium	136000	(ug/L)
Chromium	10 U	(ug/L)
Cobalt	6 U	(ug/L)
Copper	6 U	(ug/L)
Iron	8030	(ug/L)
Magnesium	57700	(ug/L)
Manganese	121	(ug/L)
Nickel	20 U	(ug/L)
Potassium	2390	(ug/L)
Silver	6 U	(ug/L)
Sodium	102000	(ug/L)
Vanadium	5	(ug/L)
Zinc	40 U	(ug/L)

ANALYZED BY: RC 11-18-97

JVM 18 Nov 97

RW01

EPA CRL - REGION V
FINAL RESULTS REPORT
REPORT PRODUCED ON: 18 NOVEMBER 97

SAMPLE OGANIZATION:B & V
SAMPLE BATCH ID: 980001
SAMPLE REQUESTOR: STEVE MRKVICKA
ACCOUNT NO: TFA301
LABORATORY: ESAT
SAMPLE FACILITY: AMERICAN CHEMICAL SERVICES

SAMPLE: 98ZB02S13
FIELD: 97ZB15S13

COLLECTED:
RECEIVED: 1 OCTOBER 97
ANALYZED: 14 OCTOBER 97

COMPOUND	AMOUNT	(Units)
Aluminum	172	(ug/L)
Barium	46	(ug/L)
Beryllium	1 U	(ug/L)
Calcium	88500	(ug/L)
Chromium	10 U	(ug/L)
Cobalt	6 U	(ug/L)
Copper	35.9	(ug/L)
Iron	174	(ug/L)
Magnesium	29100	(ug/L)
Manganese	862	(ug/L)
Nickel	20 U	(ug/L)
Potassium	3850	(ug/L)
Silver	6 U	(ug/L)
Sodium	109000	(ug/L)
Vanadium	5 U	(ug/L)
Zinc	49.6	(ug/L)

ANALYZED BY: 11-18-97

18 Nov 97

RW02

EPA CRL - REGION V
FINAL RESULTS REPORT
REPORT PRODUCED ON: 18 NOVEMBER 97

SAMPLE OGANIZATION:B & V SAMPLE BATCH ID: 980001
SAMPLE REQUESTOR: STEVE MRKVICKA ACCOUNT NO: TFA301
LABORATORY: ESAT SAMPLE FACILITY: AMERICAN CHEMICAL SERVICES

SAMPLE: 98ZB02S14 FIELD: 97ZB15S14

COLLECTED: RECEIVED: 1 OCTOBER 97 ANALYZED: 14 OCTOBER 97

COMPOUND	AMOUNT	(Units)
Aluminum	100 U	(ug/L)
Barium	6 U	(ug/L)
Beryllium	1 U	(ug/L)
Calcium	589	(ug/L)
Chromium	10 U	(ug/L)
Cobalt	6 U	(ug/L)
Copper	6 U	(ug/L)
Iron	150	(ug/L)
Magnesium	489	(ug/L)
Manganese	5 U	(ug/L)
Nickel	20 U	(ug/L)
Potassium	1970	(ug/L)
Silver	6 U	(ug/L)
Sodium	222000	(ug/L)
Vanadium	5 U	(ug/L)
Zinc	40 U	(ug/L)

ANALYZED BY: 11-18-97

18 Nov 97

RW 03

EPA CRL - REGION V
FINAL RESULTS REPORT
REPORT PRODUCED ON: 18 NOVEMBER 97

SAMPLE OGANIZATION:B & V SAMPLE BATCH ID: 980001
SAMPLE REQUESTOR: STEVE MRKVICKA ACCOUNT NO: TFA301
LABORATORY: ESAT SAMPLE FACILITY: AMERICAN CHEMICAL SERVICES

SAMPLE: 98ZB02S15 FIELD: 97ZB15S15

COLLECTED: RECEIVED: 1 OCTOBER 97 ANALYZED: 14 OCTOBER 97

COMPOUND	AMOUNT	(Units)
Aluminum	100 U	(ug/L)
Barium	142	(ug/L)
Beryllium	1 U	(ug/L)
Calcium	90200	(ug/L)
Chromium	10 U	(ug/L)
Cobalt	6 U	(ug/L)
Copper	10.1	(ug/L)
Iron	2570	(ug/L)
Magnesium	45200	(ug/L)
Manganese	37.9	(ug/L)
Nickel	20 U	(ug/L)
Potassium	2420	(ug/L)
Silver	6 U	(ug/L)
Sodium	18400	(ug/L)
Vanadium	5 U	(ug/L)
Zinc	131	(ug/L)

ANALYZED BY: RD 11-18-97

JVM 18 Nov 97

RW04

EPA CRL - REGION V
FINAL RESULTS REPORT
REPORT PRODUCED ON: 18 NOVEMBER 97

SAMPLE OGANIZATION:B & V
SAMPLE BATCH ID: 980001
SAMPLE REQUESTOR: STEVE MRKVICKA
ACCOUNT NO: TFA301
LABORATORY: ESAT
SAMPLE FACILITY: AMERICAN CHEMICAL SERVICES

SAMPLE: 98ZB02S16
FIELD: 97ZB15S16

COLLECTED:
RECEIVED: 1 OCTOBER 97
ANALYZED: 14 OCTOBER 97

COMPOUND	AMOUNT	(Units)
Aluminum	100 U	(ug/L)
Barium	173	(ug/L)
Beryllium	1 U	(ug/L)
Calcium	94400	(ug/L)
Chromium	10 U	(ug/L)
Cobalt	6 U	(ug/L)
Copper	6 U	(ug/L)
Iron	2370	(ug/L)
Magnesium	50700	(ug/L)
Manganese	19.9	(ug/L)
Nickel	20 U	(ug/L)
Potassium	2810	(ug/L)
Silver	6 U	(ug/L)
Sodium	24500	(ug/L)
Vanadium	5 U	(ug/L)
Zinc	40 U	(ug/L)

ANALYZED BY: LD 11-18-97

JVM 18 Nov 97

RW05

EPA CRL - REGION V
FINAL RESULTS REPORT
REPORT PRODUCED ON: 18 NOVEMBER 97

SAMPLE OGANIZATION:B & V SAMPLE BATCH ID: 980001
SAMPLE REQUESTOR: STEVE MRKVICKA ACCOUNT NO: TFA301
LABORATORY: ESAT SAMPLE FACILITY: AMERICAN CHEMICAL SERVICES

SAMPLE: 98ZB02S17 FIELD: 97ZB15S17

COLLECTED: RECEIVED: 1 OCTOBER 97 ANALYZED: 14 OCTOBER 97

COMPOUND	AMOUNT	(Units)
Aluminum	100 U	(ug/L)
Barium	127	(ug/L)
Beryllium	1 U	(ug/L)
Calcium	80100	(ug/L)
Chromium	10 U	(ug/L)
Cobalt	6 U	(ug/L)
Copper	6 U	(ug/L)
Iron	2650	(ug/L)
Magnesium	40700	(ug/L)
Manganese	30	(ug/L)
Nickel	20 U	(ug/L)
Potassium	2250	(ug/L)
Silver	6 U	(ug/L)
Sodium	18600	(ug/L)
Vanadium	5 U	(ug/L)
Zinc	40 U	(ug/L)

ANALYZED BY: RD 11-18-97

JVM 18 Nov 97

RW 06

EPA CRL - REGION V
FINAL RESULTS REPORT
REPORT PRODUCED ON: 18 NOVEMBER 97

SAMPLE OGANIZATION:B & V SAMPLE BATCH ID: 980001
SAMPLE REQUESTOR: STEVE MRKVICKA ACCOUNT NO: TFA301
LABORATORY: ESAT SAMPLE FACILITY: AMERICAN CHEMICAL SERVICES

SAMPLE: 98ZB02S18 FIELD: 97ZB15S18

COLLECTED: RECEIVED: 1 OCTOBER 97 ANALYZED: 14 OCTOBER 97

COMPOUND	AMOUNT	(Units)
Aluminum	100 U	(ug/L)
Barium	12.1	(ug/L)
Beryllium	1 U	(ug/L)
Calcium	43800	(ug/L)
Chromium	10 U	(ug/L)
Cobalt	6 U	(ug/L)
Copper	14.8	(ug/L)
Iron	80 U	(ug/L)
Magnesium	15100	(ug/L)
Manganese	5 U	(ug/L)
Nickel	20 U	(ug/L)
Potassium	3700	(ug/L)
Silver	6 U	(ug/L)
Sodium	6900	(ug/L)
Vanadium	5 U	(ug/L)
Zinc	150	(ug/L)

ANALYZED BY: 11-18-97

MN
18 Nov 97

MW29
duplicate

EPA CRL - REGION V
FINAL RESULTS REPORT
REPORT PRODUCED ON: 18 NOVEMBER 97

SAMPLE OGANIZATION:B & V SAMPLE BATCH ID: 980001
SAMPLE REQUESTOR: STEVE MRKVICKA ACCOUNT NO: TFA301
LABORATORY: ESAT SAMPLE FACILITY: AMERICAN CHEMICAL SERVICES

SAMPLE: 97ZB15D02 FIELD: 97ZB15D02

COLLECTED: RECEIVED: 1 OCTOBER 97 ANALYZED: 14 OCTOBER 97

COMPOUND	AMOUNT	(Units)
Aluminum	100 U	(ug/L)
Barium	115	(ug/L)
Beryllium	1 U	(ug/L)
Calcium	91800	(ug/L)
Chromium	10 U	(ug/L)
Cobalt	6 U	(ug/L)
Copper	6 U	(ug/L)
Iron	6020	(ug/L)
Magnesium	40300	(ug/L)
Manganese	95.7	(ug/L)
Nickel	20 U	(ug/L)
Potassium	2170	(ug/L)
Silver	6 U	(ug/L)
Sodium	70600	(ug/L)
Vanadium	5 U	(ug/L)
Zinc	40 U	(ug/L)

ANALYZED BY: 11-18-97

18 Nov 97

EB02

EPA CRL - REGION V
FINAL RESULTS REPORT
REPORT PRODUCED ON: 18 NOVEMBER 97

SAMPLE OGANIZATION:B & V
SAMPLE BATCH ID: 980001
SAMPLE REQUESTOR: STEVE MRKVICKA
ACCOUNT NO: TFA301
LABORATORY: ESAT
SAMPLE FACILITY: AMERICAN CHEMICAL SERVICES

SAMPLE: 98ZB02R02
FIELD: 97ZB15R02

COLLECTED:
RECEIVED: 1 OCTOBER 97
ANALYZED: 14 OCTOBER 97

COMPOUND	AMOUNT	(Units)
Aluminum	100 U	(ug/L)
Barium	6 U	(ug/L)
Beryllium	1 U	(ug/L)
Calcium	500 U	(ug/L)
Chromium	10 U	(ug/L)
Cobalt	6 U	(ug/L)
Copper	6 U	(ug/L)
Iron	80 U	(ug/L)
Magnesium	100 U	(ug/L)
Manganese	5 U	(ug/L)
Nickel	20 U	(ug/L)
Potassium	500 U	(ug/L)
Silver	6 U	(ug/L)
Sodium	1000 U	(ug/L)
Vanadium	5 U	(ug/L)
Zinc	40 U	(ug/L)

ANALYZED BY: RD 11-18-97

JM 18Nov97

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 5 CENTRAL REGIONAL LABORATORY

536 SOUTH CLARK STREET

CHICAGO, ILLINOIS 60605

Date: NOV 21 1997

Subject: Review of Region 5 Data for American Chemical Services Code:J7

From: Charles T. Elly, Director
Region 5 Central Regional Laboratory

To: B&V

Attached are the results for American Chemical Services Code:J7
CRL request number 980001
for analyses for Antimony, Arsenic, Cadmium, Lead, Mercury, Selenium and Thallium
Results are reported for sample designations: 97ZB15S10, 97ZB15D02, 98ZB02S11, 98ZB02S12, 98ZB02S13, 98ZB02S14, 98ZB02S15, 98ZB02S16, 98ZB02S17, 98ZB02S18 and 98ZB02R02

Results Status:
(x) Acceptable for Use
( ) Data Qualified, but Acceptable for use
( ) Data Unacceptable for Use

Comments on Data Quality by Reviewer

Some sample numbers were altered at CRL upon consultation with the field personnel because collection took place after the turn of the fiscal year. All QC measures were met.

Comments by Laboratory Director or Quality Control Coordinator

Review Record for American Chemical Services Code:J7

[signature] 19 Nov 97

Peer/Task Monitor Review and Date (✓) Reviewed ( ) Unreviewed

[signature] 19 Nov 97

Team Leader and Date (✓) Reviewed ( ) Unreviewed

[signature] for CTE 11/19/97

QC Coordinator and Date ( ) Reviewed (✓) Unreviewed
(position vacant)

Sylvia Griffin NOV 21 1997

Data Management Coordinator and Date Received

Date Transmitted NOV 21 1997

Please sign and date this form below and return it with any comments to:

Sylvia Griffin
Data Management Coordinator
Region 5 Central Regional Laboratory
ML - 10C

Received by and Date

Comments:

Method Number: 3114B
Date Generated: 11-11-97
TDF Number: 5104-135

SiteName: AMERICAN CHEMICAL SERVICE
Charge Number: ESE-51-139
Work Assignment Number: 05-97-1-04

FIAS NARRATIVE for Data Set 980001

11 water samples from data set 980001(97ZB15S10, D02 and 97ZB02S11-18, R02) were submitted for the analysis of total antimony by hydride AA. The samples were collected on 10/02/97.

All samples, QC checks and standards were digested following standard CRL FIAS digestion protocols for waters on 11-07-97 and were analyzed on 11-10-97. The data for samples from data set 980001 and all required QC were acceptable.

The hold time for metals is six months. All samples were analyzed within the six month hold time for metals. A spiked blank, used as a laboratory control sample (LFM), was digested and analyzed with the set of samples. Analytical results for 980001 were stored in .DAT file SBLL1110.DAT.

Narrative by: L. Forese ESAT
Date: 11.11.97

Data Set: 980001	**Site Name:** AM.CHEMICAL SERVICES
Date Generated: 10-30-97	**WA Number:** 05-97-1-04
Author: Larisa Leonova	**TDF Number:** 5104-135
Method Number: 3114*B	**Charge Number:** ESE-51-139

Hg NARRATIVE for Data Set 980001

11 water samples (97ZB15D02 and S10, 98ZB02S11-S18 and R02) were submitted for the analysis of total mercury by cold vapor FIAS AA. The samples were collected on 09/29/97 - 10/02/97 and were received by the CRL properly preserved. All samples were part of the data set 980001.

All samples and standards were digested following standard CRL cold vapor FIAS AA digestion protocols for waters on 10/29/97. The holding time for Hg is 28 days. All samples were analyzed on 10/30/97, therefore Hg data for samples 98ZB02S13-S18 are acceptable and Hg data for samples 97ZB15S10,D02 and 98ZB02S11-12, R02 are estimated.

A spiked blank, used as a laboratory control sample (LCS), was digested and analyzed with the set of samples. The calibration standards were not analyzed in the proper order, thus the calibration curve generated by the instrument software was not correct. The analyst calculated the linear regression and recalculated all results manually. The data were stored in .DAT file HGLL1030.DAT.

The calibration curve correlation coefficient, QC check samples and method blanks were within the methods control limits. All sample results were acceptable.

L. Le
11.11.97

SAMPLE RESULTS (UG/L) FOR DATA SET 980001

	Sample # 97ZB15	As arsenic	Sb antimony	Pb lead	Cd cadmium	Se selenium	Tl thallium
MW29	S10	2U	1 U	2U	0.2U	4U	2U
MW29 dup	D02	2U	1 U	2U	0.2U	4U	2U
	Sample # 98ZB02						
MW12	S11	6	1 U	9	0.2U	2U	2U
MW51	S12	2U	1 U	4U	0.2U	6U	2U
RW01	S13	2U	1 U	8	0.2U	2U	2U
RW02	S14	2U	1 U	4U	0.2U	4U	2U
RW03	S15	2U	1 U	4U	0.2U	4U	2U
RW04	S16	2U	1 U	4U	0.2U	2U	2U
RW05	S17	2U	1 U	2U	0.2U	4U	2U
RW06	S18	2U	1 U	2U	0.4	2U	2U
EB02	R02	2U	1 U	2U	0.2U	2U	2U
	Date of Analysis	11-10-97	11-10-97	11-08-97	11-0797	11-10-97	11-08-97
	Analyst	B. Yuen	Z. [illegible]	B. Yuen	B. Yuen	B. Yuen	B. Yuen
	Date	11-12-97	11.12.97	11-12-97	11-12-97	11-12-97	11-12-97

[illegible]
19 Nov 97

MERCURY RESULTS (UG/L) FOR DATA SET 980001

SRM 1-7-98

	Sample #	Analysis Date	Concentration	Analyst	Date
MW29 dup.	97ZB15D02	10-30-97	0.2 U J	Z. L	11.12.97
MW29	97ZB15S10	10-30-97	0.2 U	Z. L	11.12.97
MW12	98ZB02S11	10-30-97	0.2 U	Z. L	11.12.97
MW51	98ZB02S12	10-30-97	0.2 U	Z. L	11.12.97
RW01	98ZB02S13	10-30-97	0.2 U	Z. L	11.12.97
RW02	98ZB02S14	10-30-97	0.2 U	Z. L	11.12.97
RW03	98ZB02S15	10-30-97	0.2 U	Z. L	11.12.97
RW04	98ZB02S16	10-30-97	0.2 U	Z. L	11.12.97
RW05	98ZB02S17	10-30-97	0.2 U	Z. L	11.12.97
RW06	98ZB02S18	10-30-97	0.2 U	Z. L	11.12.97
	98ZB02R02	10-30-97	0.2 U J	Z. L	11.12.97

19 Jan 98

Thallium

Data Files TLBY1107.DAT and TLBY1108.DAT

Thallium was analyzed without incident.

All QC was within the specified control limits.

Selenium

Data File SEBY1110.DAT

Selenium was analyzed without incident.

All QC was within the specified control limits.

Acceptable results for arsenic, cadmium, lead, selenium and thallium were obtained for the samples.

Narrative by: Bi Yun ESAT
Date: 11-14-97

Method Number: GFAA Metals
Date Generated: November 14, 1997
Auther: Bai Yuen

Site Name: American Chemical Services
Charge Number(s): ESE51139
TDF Number: 5104-135
WAD Number: 05-97-1-04

GFAA NARRATIVE for Data Set 980001

Eleven water samples, 97ZB15S10, D02, 98ZB02S11, S12, S13, S14, S15, S16, S17, S18 and R02 were collected from the American Chemical Services site. All samples were submitted for the analysis of total arsenic, cadmium, lead, selenium and thallium by GFAA. The samples were collected from 09/29/97 to 10/02/97 and were received properly preserved by the CRL on 10/02/97 and 10/03/97. All samples were part of data set 980001.

All samples were digested following standard CRL GFAA digestion protocols. The samples were digested on 11/06/97. All analyses were performed within the six month holding time.

Analytical results were stored in .DAT files CDBY1107.DAT, PBBY1107.DAT, PBBY1108.DAT, PBBY0811.DAT, TLBY1107.DAT, ,TLBY1108.DAT, ASBY1110.DAT and SEBY1110.DAT.

Arsenic

Data File ASBY1110.DAT

Arsenic was analyzed without incident.

All QC was within the specified control limits.

Cadmium

Data File CDBY1107.DAT

Cadmium was analyzed without incident.

All QC was within the specified control limits.

Lead

Data Files PBBY1107.DAT and PBBY1108.DAT

Lead was analyzed without incident.

All QC was within the specified control limits.

Narrative by: Bai Yuen ESAT
Date: 11-14-97

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 5 CENTRAL REGIONAL LABORATORY

536 SOUTH CLARK STREET

CHICAGO, ILLINOIS 60605

Date: NOV 21 1997

Subject: Review of Region 5 Data for American Chemical Services Code:J7

From: Charles T. Elly, Director
Region 5 Central Regional Laboratory

To: B&V

Attached are the results for American Chemical Services Code:J7
CRL request number 970661
for analyses for ICP
Results are reported for sample designations: 97ZB15S08 and 97ZB15S09

Results Status:
(x) Acceptable for Use
( ) Data Qualified, but Acceptable for use
( ) Data Unacceptable for Use

Comments on Data Quality by Reviewer

All QC measures were met.

Comments by Laboratory Director or Quality Control Coordinator

Review Record for American Chemical Services Code:J7

John V. Moore 18 Nov 97

Peer/Task Monitor Review and Date (✓) Reviewed ( ) Unreviewed

John V. Moore 18 Nov 97

Team Leader and Date (✓) Reviewed ( ) Unreviewed

Chi Yang for CTE 11/19/97

QC Coordinator and Date ( ) Reviewed (✓) Unreviewed
(position vacant)

Sylvia Griffin NOV 21 1997

Data Management Coordinator and Date Received

Date Transmitted NOV 21 1997

Please sign and date this form below and return it with any comments to:

Sylvia Griffin
Data Management Coordinator
Region 5 Central Regional Laboratory
ML - 10C

Received by and Date

Comments:

NW38

EPA CRL - REGION V
FINAL RESULTS REPORT
REPORT PRODUCED ON: 15 OCTOBER 97

SAMPLE OGANIZATION:B & V SAMPLE BATCH ID: 970661
SAMPLE REQUESTOR: STEVE MRKVICKA ACCOUNT NO: TFA301
LABORATORY: ESAT SAMPLE FACILITY: AMERICAN CHEMICAL SERVICES

SAMPLE: 97ZB15S08 FIELD: 97ZB15S08

COLLECTED: RECEIVED: 30 SEPTEMBER 97 ANALYZED: 14 OCTOBER 97

COMPOUND	AMOUNT	(Units)
Aluminum	542	(ug/L)
Barium	48.8	(ug/L)
Beryllium	1 U	(ug/L)
Calcium	58700	(ug/L)
Chromium	10 U	(ug/L)
Cobalt	6 U	(ug/L)
Copper	6 U	(ug/L)
Iron	12300	(ug/L)
Magnesium	19400	(ug/L)
Manganese	586	(ug/L)
Nickel	20 U	(ug/L)
Potassium	500 U	(ug/L)
Silver	6 U	(ug/L)
Sodium	5060	(ug/L)
Vanadium	10.8	(ug/L)
Zinc	40 U	(ug/L)

ANALYZED BY: 11-3-97

18 Nov 97

MW23

EPA CRL - REGION V
FINAL RESULTS REPORT
REPORT PRODUCED ON: 15 OCTOBER 97

SAMPLE OGANIZATION:B & V
SAMPLE BATCH ID: 970661
SAMPLE REQUESTOR: STEVE MRKVICKA
ACCOUNT NO: TFA301
LABORATORY: ESAT
SAMPLE FACILITY: AMERICAN CHEMICAL SERVICES

SAMPLE: 97ZB15S09
FIELD: 97ZB15S09

COLLECTED:
RECEIVED: 30 SEPTEMBER 97
ANALYZED: 14 OCTOBER 97

COMPOUND	AMOUNT	(Units)
Aluminum	3350	(ug/L)
Barium	148	(ug/L)
Beryllium	1 U	(ug/L)
Calcium	88500	(ug/L)
Chromium	10.9	(ug/L)
Cobalt	6 U	(ug/L)
Copper	15.3	(ug/L)
Iron	11900	(ug/L)
Magnesium	23300	(ug/L)
Manganese	384	(ug/L)
Nickel	21.4	(ug/L)
Potassium	2500	(ug/L)
Silver	6 U	(ug/L)
Sodium	75700	(ug/L)
Vanadium	10.4	(ug/L)
Zinc	40 U	(ug/L)

ANALYZED BY: RT 11-3-97

18 Nov 97

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 5 CENTRAL REGIONAL LABORATORY

536 SOUTH CLARK STREET

CHICAGO, ILLINOIS 60605

Date: NOV 13 1997

Subject: Review of Region 5 Data for American Chemical Services Code:J7

From: Charles T. Elly, Director
Region 5 Central Regional Laboratory 11/13/97

To: BEV

Attached are the results for American Chemical Services Code:J7
CRL request number 970661
for analyses for Antimony, Arsenic, Cadmium, Lead, Mercury, Selenium and Thallium
Results are reported for sample designations: 97ZB15S08 and 97ZB15S09

Results Status:
(x) Acceptable for Use
( ) Data Qualified, but Acceptable for use
( ) Data Unacceptable for Use

Comments on Data Quality by Reviewer

All QC measures were met.

Comments by Laboratory Director or Quality Control Coordinator

Review Record for American Chemical Services Code:J7

13 Nov 97

Peer/Task Monitor Review and Date (✓) Reviewed ( ) Unreviewed

13 Nov 97

Team Leader and Date (✓) Reviewed ( ) Unreviewed

QC Coordinator and Date ( ) Reviewed ( ) Unreviewed
(position vacant)

Sylvia Griffin NOV 13 1997

Data Management Coordinator and Date Received

Date Transmitted NOV 13 1997

Please sign and date this form below and return it with any comments to:

Sylvia Griffin
Data Management Coordinator
Region 5 Central Regional Laboratory
ML - 10C

Received by and Date

Comments:

Method Number: GFAA Metals
Date Generated: November 7, 1997
Author: Bai Yuen

Site Name: American Chemical Service
Charge Number(s): ESE51138
TDF Number: 5104-134
WAD Number: 05-97-1-04

GFAA NARRATIVE for Data Set 970661

Two water samples, 97ZB15S08 and S09 were collected from the American Chemical Service site. All samples were submitted for the analysis of total arsenic, cadmium, lead, selenium and thallium by GFAA. The samples were collected on 09/25/97 and were received properly preserved by the CRL on 09/30/97. All samples were part of data set 970661.

All samples were digested following standard CRL GFAA digestion protocols. The samples were digested on 10/22/97. All analyses were performed within the six month holding time.

Analytical results were stored in .DAT files ASBY1103.DAT, CDBY1023.DAT, CDBY2310.DAT, PBBY3010.DAT and PBBY1030.DAT and TLBY2310.DAT and database files ASSE102797 and ASSE110397A.

Arsenic

Data File ASBY1103.DAT

Arsenic was analyzed without incident.

All QC was within the specified control limits.

Cadmium

Data Files CDBY1023.DAT and CDBY2310.DAT

Cadmium was analyzed without incident.

All QC was within the specified control limits.

Lead

Data Files PBBY1030.DAT and PBBY3010.DAT

Lead was analyzed without incident.

All QC was within the specified control limits.

Narrative by: Bai Yuen ESAT
Date: 11-7-97

Thallium

Data File TLBY2310.DAT

Thallium was analyzed without incident.

All QC was within the specified control limits.

Selenium

Data Files ASSE102797 and ASSE110397A

Selenium was analyzed without incident.

All QC was within the specified control limits.

Acceptable results for arsenic, cadmium, lead, selenium and thallium were obtained for the samples.

Narrative by: _____ ESAT
Date: 11-7-97

Method Number: 3114B
Date Generated: 10-29-97
TDF Number: 5104-134

SiteName: AMERICAN CHEMICAL SERVICE
Charge Number: ESE-51-138
Work Assignment Number: 05-97-1-04

FIAS NARRATIVE for Data Set 970661

2 water samples from data set 970661(97ZB15S08 and S09) were submitted for the analysis of total antimony by hydride AA. The samples were collected on 09/25/97.

All samples, QC checks and standards were digested following standard CRL FIAS digestion protocols for waters on 10-10-97 and were analyzed on 10-14-97. The data for samples from data set 970661 and all required QC were acceptable.

The hold time for metals is six months. All samples were analyzed within the six month hold time for metals. A spiked blank, used as a laboratory control sample (LFM), was digested and analyzed with the set of samples. Analytical results for 970661 were stored in .DAT file SBLL1014.DAT.

Narrative by: L. Lenoir ESAT
Date: 11.5.97

Data Set: 970661	**Site Name:** AM.CHEM.SERVICE
Date Generated: 10-30-97	**WA Number:** 05-97-1-04
Author: Larisa Leonova	**TDF Number:** 5104-134
Method Number: 3114*B	**Charge Number:** ESE-51-138

Hg NARRATIVE for Data Set 970661

2 water samples (97ZB15S08 and S09) were submitted for the analysis of total mercury by cold vapor FIAS AA. The samples were collected on 09/25/97 and were received by the CRL properly preserved. These samples were part of the data set 970661 and were digested and analyzed with data sets 970613 and 970658.

The holding time for Hg is 28 days. All samples and standards were digested following standard CRL cold vapor FIAS AA digestion protocols for waters on 10/22/97,but analyzed only on 10/28/97- 6 days past the holding time limit because the instrument was not available. CRL was aware of this situation. All sample results are estimated.

A spiked blank, used as a laboratory control sample (LCS), was digested and analyzed with the set of samples. The data are stored in the .DAT file HGLL1028.DAT.

The calibration curve correlation coefficient, QC check samples and method blanks were within the methods control limits.

L. Leonova
11.7.97

SAMPLE RESULTS (ug/L) FOR DATA SET 970661(WATER)

	Sample # 97ZB15	As arsenic	Sb antimony	Cd cadmium	Pb lead	Se selenium	Tl thallium
MW38	S08	4	1 U	0.3	13	1U	2U
MW23	S09	3	1 U	0.2U	6	1U	2U
	Date of Analysis	11-03-97	10-14-97	10-23-97	10-30-97	10-27-97	10-23-97
	Analyst	B. Yuen	L. Lee	B. Yuen	B. Yuen	B. Yuen	B. Yuen
	Date	11-5-97	11.5.97	11-5-97	11-5-97	11-5-97	11-5-97

Jan
93 Nov 92

MERCURY RESULTS (UG/L) FOR DATA SET 970661

	Sample #	Analysis Date	Concentration	Analyst	Date
MW38	97ZB15S08	10-28-97	0.2 UJ	Z. Z—	10-28-97
MW23	97ZB15S09	10-28-97	0.2 UJ	Z. Z—	10-28-97

SRM 1-7-98

13 Jan 98

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 5 CENTRAL REGIONAL LABORATORY

536 SOUTH CLARK STREET

CHICAGO, ILLINOIS 60605

Date: NOV 06 1997

Subject: Review of Region 5 Data for American Chemical Services Code:J7

From: Charles T. Elly, Director Chuck Elly
Region 5 Central Regional Laboratory

To: B&V

Attached are the results for American Chemical Services Code:J7
CRL request number 970649
for analyses for ICP
Results are reported for sample designations: 97ZB15S01, 97ZB15D01, 97ZB15S02, 97ZB15S03, 97ZB15S04, 97ZB15S05, 97ZB15S06, 97ZB15S07 and 97ZB15R01

Results Status:
(x) Acceptable for Use
( ) Data Qualified, but Acceptable for use
( ) Data Unacceptable for Use

Comments on Data Quality by Reviewer

Aluminum was reported at an elevated detection limit due to problems with the analytical channel for that element. If reanalysis is required, it may be requested. Copper laboratory duplicate difference was 7 µg Cu/L, greater than the CRL limit of ± the detection limit (6 µg Cu/L). The matrix spike supported the sample result, so the data are probably unaffected. It appears from both the AA and ICP data that 97ZB15D01 is a field duplicate of 97ZB15S02, and not 97ZB15S01.

Comments by Laboratory Director or Quality Control Coordinator

Review Record for American Chemical Services Code:J7

6 Nov 97

Peer/Task Monitor Review and Date (✓) Reviewed ( ) Unreviewed

6 Nov 97

Team Leader and Date (✓) Reviewed ( ) Unreviewed

11/6/97

QC Coordinator and Date ( ) Reviewed (✓) Unreviewed
(position vacant)

NOV 06 1997

Data Management Coordinator and Date Received

Date Transmitted NOV 06 1997

Please sign and date this form below and return it with any comments to:

Sylvia Griffin
Data Management Coordinator
Region 5 Central Regional Laboratory
ML - 10C

Received by and Date

Comments:

EB01

EPA CRL - REGION V
FINAL RESULTS REPORT
REPORT PRODUCED ON: 2 OCTOBER 97

SAMPLE OGANIZATION:B & V SAMPLE BATCH ID: 970649
SAMPLE REQUESTOR: STEVE MRKVICKA ACCOUNT NO: TFA301
LABORATORY: ESAT SAMPLE FACILITY: AMERICAN CHEMICAL SERVICES

SAMPLE: 97ZB15R01 FIELD: 97ZB15R01

COLLECTED: RECEIVED: 25 SEPTEMBER 97 ANALYZED: 1 OCTOBER 97

COMPOUND	AMOUNT	(Units)
Aluminum	100 U	(ug/L)
Barium	6 U	(ug/L)
Beryllium	1 U	(ug/L)
Calcium	500 U	(ug/L)
Chromium	10 U	(ug/L)
Cobalt	6 U	(ug/L)
Copper	6 U	(ug/L)
Iron	80 U	(ug/L)
Magnesium	100 U	(ug/L)
Manganese	5 U	(ug/L)
Nickel	20 U	(ug/L)
Potassium	500 U	(ug/L)
Silver	6 U	(ug/L)
Sodium	1000 U	(ug/L)
Vanadium	5 U	(ug/L)
Zinc	40 U	(ug/L)

ANALYZED BY: 10-23-97 6 Nov 97

M4S

EPA CRL - REGION V
FINAL RESULTS REPORT
REPORT PRODUCED ON: 2 OCTOBER 97

SAMPLE OGANIZATION:B & V SAMPLE BATCH ID: 970649
SAMPLE REQUESTOR: STEVE MRKVICKA ACCOUNT NO: TFA301
LABORATORY: ESAT SAMPLE FACILITY: AMERICAN CHEMICAL SERVICES

SAMPLE: 97ZB15S01 FIELD: 97ZB15S01

COLLECTED: RECEIVED: 25 SEPTEMBER 97 ANALYZED: 1 OCTOBER 97

COMPOUND	AMOUNT	(Units)
Aluminum	300	(ug/L)
Barium	494	(ug/L)
Beryllium	1 U	(ug/L)
Calcium	307000	(ug/L)
Chromium	39.6	(ug/L)
Cobalt	8.1	(ug/L)
Copper	12.7	(ug/L)
Iron	23200	(ug/L)
Magnesium	46800	(ug/L)
Manganese	538	(ug/L)
Nickel	30.3	(ug/L)
Potassium	17800	(ug/L)
Silver	6 U	(ug/L)
Sodium	75000	(ug/L)
Vanadium	5.9	(ug/L)
Zinc	40 U	(ug/L)

ANALYZED BY: RD 10-23-97 Iva 6 Nov 97

M4D duplicate

EPA CRL - REGION V
FINAL RESULTS REPORT
REPORT PRODUCED ON: 2 OCTOBER 97

SAMPLE OGANIZATION:B & V
SAMPLE BATCH ID: 970649
SAMPLE REQUESTOR: STEVE MRKVICKA
ACCOUNT NO: TFA301
LABORATORY: ESAT
SAMPLE FACILITY: AMERICAN CHEMICAL SERVICES

SAMPLE: 97ZB15D01
FIELD: 97ZB15D01

COLLECTED:
RECEIVED: 25 SEPTEMBER 97
ANALYZED: 1 OCTOBER 97

COMPOUND	AMOUNT	(Units)
Aluminum	300	(ug/L)
Barium	201	(ug/L)
Beryllium	1 U	(ug/L)
Calcium	90400	(ug/L)
Chromium	10 U	(ug/L)
Cobalt	6 U	(ug/L)
Copper	6 U	(ug/L)
Iron	2060	(ug/L)
Magnesium	42800	(ug/L)
Manganese	37.8	(ug/L)
Nickel	20 U	(ug/L)
Potassium	3570	(ug/L)
Silver	6 U	(ug/L)
Sodium	80400	(ug/L)
Vanadium	5 U	(ug/L)
Zinc	40 U	(ug/L)

ANALYZED BY: 10-23-97

M4D

EPA CRL - REGION V
FINAL RESULTS REPORT
REPORT PRODUCED ON: 2 OCTOBER 97

SAMPLE OGANIZATION:B & V SAMPLE BATCH ID: 970649
SAMPLE REQUESTOR: STEVE MRKVICKA ACCOUNT NO: TFA301
LABORATORY: ESAT SAMPLE FACILITY: AMERICAN CHEMICAL SERVICES

SAMPLE: 97ZB15S02 FIELD: 97ZB15S02

COLLECTED: RECEIVED: 25 SEPTEMBER 97 ANALYZED: 1 OCTOBER 97

COMPOUND	AMOUNT	(Units)
Aluminum	513	(ug/L)
Barium	199	(ug/L)
Beryllium	1 U	(ug/L)
Calcium	89900	(ug/L)
Chromium	11.2	(ug/L)
Cobalt	6 U	(ug/L)
Copper	8	(ug/L)
Iron	2250	(ug/L)
Magnesium	42500	(ug/L)
Manganese	40.9	(ug/L)
Nickel	20 U	(ug/L)
Potassium	3580	(ug/L)
Silver	6 U	(ug/L)
Sodium	78900	(ug/L)
Vanadium	5 U	(ug/L)
Zinc	40 U	(ug/L)

ANALYZED BY: RD 10-23-97 1 Nov 6 Nov 97

M3S

EPA CRL - REGION V
FINAL RESULTS REPORT
REPORT PRODUCED ON: 2 OCTOBER 97

SAMPLE OGANIZATION:B & V SAMPLE BATCH ID: 970649
SAMPLE REQUESTOR: STEVE MRKVICKA ACCOUNT NO: TFA301
LABORATORY: ESAT SAMPLE FACILITY: AMERICAN CHEMICAL SERVICES

SAMPLE: 97ZB15S03 FIELD: 97ZB15S03

COLLECTED: RECEIVED: 25 SEPTEMBER 97 ANALYZED: 1 OCTOBER 97

COMPOUND	AMOUNT	(Units)
Aluminum	100 U	(ug/L)
Barium	235	(ug/L)
Beryllium	1 U	(ug/L)
Calcium	138000	(ug/L)
Chromium	10 U	(ug/L)
Cobalt	6 U	(ug/L)
Copper	6 U	(ug/L)
Iron	4770	(ug/L)
Magnesium	40000	(ug/L)
Manganese	508	(ug/L)
Nickel	20 U	(ug/L)
Potassium	11900	(ug/L)
Silver	6 U	(ug/L)
Sodium	43400	(ug/L)
Vanadium	5 U	(ug/L)
Zinc	40 U	(ug/L)

ANALYZED BY: 10-23-97 6 Nov 97

M1S

EPA CRL - REGION V
FINAL RESULTS REPORT
REPORT PRODUCED ON: 2 OCTOBER 97

SAMPLE OGANIZATION:B & V SAMPLE BATCH ID: 970649
SAMPLE REQUESTOR: STEVE MRKVICKA ACCOUNT NO: TFA301
LABORATORY: ESAT SAMPLE FACILITY: AMERICAN CHEMICAL SERVICES

SAMPLE: 97ZB15S04 FIELD: 97ZB15S04

COLLECTED: RECEIVED: 25 SEPTEMBER 97 ANALYZED: 1 OCTOBER 97

COMPOUND	AMOUNT	(Units)
Aluminum	146	(ug/L)
Barium	974	(ug/L)
Beryllium	1 U	(ug/L)
Calcium	265000	(ug/L)
Chromium	10 U	(ug/L)
Cobalt	6 U	(ug/L)
Copper	6 U	(ug/L)
Iron	12700	(ug/L)
Magnesium	92200	(ug/L)
Manganese	316	(ug/L)
Nickel	20 U	(ug/L)
Potassium	29500	(ug/L)
Silver	6 U	(ug/L)
Sodium	135000	(ug/L)
Vanadium	5 U	(ug/L)
Zinc	40 U	(ug/L)

ANALYZED BY: RD 10-23-97

6 Nov 97

MW15

EPA CRL - REGION V
FINAL RESULTS REPORT
REPORT PRODUCED ON: 2 OCTOBER 97

SAMPLE OGANIZATION:B & V SAMPLE BATCH ID: 970649
SAMPLE REQUESTOR: STEVE MRKVICKA ACCOUNT NO: TFA301
LABORATORY: ESAT SAMPLE FACILITY: AMERICAN CHEMICAL SERVICES

SAMPLE: 97ZB15S05 FIELD: 97ZB15S05

COLLECTED: RECEIVED: 25 SEPTEMBER 97 ANALYZED: 1 OCTOBER 97

COMPOUND	AMOUNT	(Units)
Aluminum	180	(ug/L)
Barium	1520	(ug/L)
Beryllium	1 U	(ug/L)
Calcium	81400	(ug/L)
Chromium	10 U	(ug/L)
Cobalt	6 U	(ug/L)
Copper	18.3	(ug/L)
Iron	7840	(ug/L)
Magnesium	83000	(ug/L)
Manganese	172	(ug/L)
Nickel	20 U	(ug/L)
Potassium	106000	(ug/L)
Silver	6 U	(ug/L)
Sodium	531000	(ug/L)
Vanadium	5 U	(ug/L)
Zinc	40 U	(ug/L)

ANALYZED BY: PD 10-23-97

JVM 6 Nov 97

MWB

EPA CRL - REGION V
FINAL RESULTS REPORT
REPORT PRODUCED ON: 2 OCTOBER 97

SAMPLE OGANIZATION:B & V SAMPLE BATCH ID: 970649
SAMPLE REQUESTOR: STEVE MRKVICKA ACCOUNT NO: TFA301
LABORATORY: ESAT SAMPLE FACILITY: AMERICAN CHEMICAL SERVICES

SAMPLE: 97ZB15S06 FIELD: 97ZB15S06

COLLECTED: RECEIVED: 25 SEPTEMBER 97 ANALYZED: 1 OCTOBER 97

COMPOUND	AMOUNT	(Units)
Aluminum	317	(ug/L)
Barium	117	(ug/L)
Beryllium	1 U	(ug/L)
Calcium	54200	(ug/L)
Chromium	11.6	(ug/L)
Cobalt	6 U	(ug/L)
Copper	9.8	(ug/L)
Iron	2280	(ug/L)
Magnesium	17400	(ug/L)
Manganese	116	(ug/L)
Nickel	20 U	(ug/L)
Potassium	1670	(ug/L)
Silver	6 U	(ug/L)
Sodium	12500	(ug/L)
Vanadium	5 U	(ug/L)
Zinc	40 U	(ug/L)

ANALYZED BY: RD 10-23-97

1 um
6 Nov 97

MW10C

EPA CRL - REGION V
FINAL RESULTS REPORT
REPORT PRODUCED ON: 2 OCTOBER 97

SAMPLE OGANIZATION:B & V
SAMPLE BATCH ID: 970649
SAMPLE REQUESTOR: STEVE MRKVICKA
ACCOUNT NO: TFA301
LABORATORY: ESAT
SAMPLE FACILITY: AMERICAN CHEMICAL SERVICES

SAMPLE: 97ZB15S07
FIELD: 97ZB15S07

COLLECTED:
RECEIVED: 25 SEPTEMBER 97
ANALYZED: 1 OCTOBER 97

COMPOUND	AMOUNT	(Units)
Aluminum	3160	(ug/L)
Barium	375	(ug/L)
Beryllium	1 U	(ug/L)
Calcium	133000	(ug/L)
Chromium	50.5	(ug/L)
Cobalt	9	(ug/L)
Copper	21.3	(ug/L)
Iron	14900	(ug/L)
Magnesium	61900	(ug/L)
Manganese	286	(ug/L)
Nickel	33.2	(ug/L)
Potassium	4410	(ug/L)
Silver	6 U	(ug/L)
Sodium	192000	(ug/L)
Vanadium	8.5	(ug/L)
Zinc	69.5	(ug/L)

ANALYZED BY: RD 10-23-97

[illegible] 6 Nov 97