US EPA RECORDS CENTER REGION 5
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June 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 week of June 23, 1997, BVSPC collected seventeen split samples from twelve monitoring wells and the five Town of Griffith Landfill monitoring 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, June 1997 Groundwater Sampling Results Report, submitted on October 14, 1997. 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 June 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).

Table 5 presents the Upper and Lower Aquifer monitoring well sample data comparison. 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 Table 5. 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.

Table 1 Summary Comparison of Volatile Organic Compounds Upper Aquifer Wells				
	Detected Substances		Number of TICs	
	EPA sample	MW sample	EPA sample	MW sample
M3S	None	None	0	0
M4S	Vinyl chloride Chloroethane 1,2-Dichloroethene Benzene 4-Methyl-2-pentanone Toluene	Chloroethane 1,2-Dichloroethene Benzene	10	2
M2S	None	None	0	0
M1S	Toluene	None	1	1
MW38	None	None	0	0
MW15	Chloroethane Benzene Toluene	Benzene Toluene	0	0
MW18	Benzene Toluene	None	0	0
MW46	Vinyl chloride 1,2-Dichloroethene Benzene	Benzene	1	0
MW11	Chloromethane 1,2-Dichloroethane Toluene	Tetrachloroethene	0	0
MW37	Toluene	None	0	2

Table 1 (continued) Summary Comparison of Volatile Organic Compounds Lower Aquifer Wells				
	Detected Substances		Number of TICs	
	EPA sample	MW sample	EPA sample	MW sample
M4D	None	None	0	0
MW10C	Vinyl chloride Chloroethane Carbon disulfide 1,2-dichloroethane Benzene 4-methyl-2-pentanone Toluene	Vinyl chloride Chloroethane Methylene chloride	1	1
MW23	Carbon disulfide Benzene Toluene	Benzene	0	1
MW28	Chloromethane Toluene	Acetone	0	0
MW50	Toluene	Benzene	0	0
MW51	4-Methyl-2-pentanone 2-Hexanone	4-Methyl-2-pentanone	2	6
MW8	Chloromethane Toluene	Acetone	0	0

Table 2
Summary Comparison of Semivolatile Organic Compounds
Upper Aquifer Wells

	Detected Substances		Number of TICs	
	EPA sample	MW sample	EPA sample	MW sample
M3S	Phenol 2,2'-oxybis-(1-Chloropropane) bis(2-Ethylhexyl)phthalate	2,2'-oxybis-(1-Chloropropane)	1	2
M4S	bis(2-Chloroethyl)ether	bis(2-Chloroethyl)ether	16	20
M2S	Phenol 2,2'-oxybis-(1-Chloropropane) bis(2-Ethylhexyl)phthalate	Phenol bis(2-Ethylhexyl)phthalate	0	1
M1S	Phenol bis(2-Ethylhexyl)phthalate	Phenol bis(2-Ethylhexyl)phthalate	2	6
MW38	None	Phenol bis(2-Ethylhexyl)phthalate	0	0
MW15	Phenol	None	2	5
MW18	bis(2-Ethylhexyl)phthalate	bis(2-Ethylhexyl)phthalate		0
MW46	??? bis(2-Ethylhexyl)phthalate	bis(2-Chloroethyl)ether	0	3
MW11	None	Phenol bis(2-Ethylhexyl)phthalate	1	2
MW37	Phenol ???	Phenol bis(2-Ethylhexyl)phthalate	0	4

Table 2 (continued) Summary Comparison of Semivolatile Organic Compounds Lower Aquifer Wells				
	Detected Substances		Number of TICs	
	EPA sample	MW sample	EPA sample	MW sample
M4D	Phenol bis(2-Ethylhexyl)phthalate	Phenol	2	4
MW10C	Phenol bis(2-Ethylhexyl)phthalate	Phenol	5	20
MW23	Phenol	Phenol bis(2-Ethylhexyl)phthalate	0	12
MW28	Phenol bis(2-Ethylhexyl)phthalate	Phenol bis(2-Ethylhexyl)phthalate	3	8
MW50	Phenol Di-n-butylphthalate bis(2-Ethylhexyl)phthalate	Phenol bis(2-Ethylhexyl)phthalate	2	9
MW51	Phenol bis(2-Ethylhexyl)phthalate	Phenol	11	19
MW8	???	None	0	2

Table 3 Summary Comparison of Pesticides/PCBs Upper Aquifer Wells		
	Detected Substances	
	EPA sample	MW sample
M3S	None	None
M4S	None	None
M2S	None	None
M1S	None	None
MW38	None	None
MW15	None	None
MW18	None	None
MW46	None	None
MW11	None	None
MW37	None	None

Lower Aquifer Wells		
	Detected Substances	
	EPA sample	MW sample
M4D	None	None
MW10C	None	None
MW23	None	None
MW28	p,p'-DDT	None
MW50	p,p'-DDT	None
MW51	None	None
MW8	None	None

Table 4 Summary Comparison of Inorganic Analytes Upper Aquifer Wells				
	Detected Substances			
	EPA sample		MW sample	
M3S	Arsenic Barium Calcium Iron	Magnesium Manganese Potassium Sodium	Aluminum Arsenic Barium Calcium Chromium Cobalt Copper Iron	Lead Magnesium Manganese Nickel Potassium Sodium Vanadium Zinc
M4S	Aluminum Antimony Arsenic Barium Calcium Cobalt Iron	Magnesium Manganese Potassium Sodium	Aluminum Arsenic Barium Beryllium Calcium Chromium Cobalt Copper	Iron Lead Magnesium Manganese Nickel Potassium Sodium Vanadium Zinc
M2S	Arsenic Barium Calcium Iron	Magnesium Manganese Sodium Thallium	Aluminum Arsenic Barium Calcium Chromium Cobalt Copper Iron	Lead Magnesium Manganese Nickel Potassium Sodium Vanadium Zinc

Table 4 (continued) Summary Comparison of Inorganic Analytes Upper Aquifer Wells				
	Detected Substances			
	EPA sample		MW sample	
M1S	Aluminum Arsenic Barium Calcium Iron	Magnesium Manganese Potassium Sodium	Aluminum Barium Calcium Chromium Cobalt Copper Iron	Magnesium Manganese Nickel Potassium Sodium Vanadium Zinc
MW38	Arsenic Barium Calcium Iron	Magnesium Manganese Nickel Sodium Zinc	Aluminum Barium Calcium Chromium Cobalt Copper Iron Lead	Magnesium Manganese Nickel Potassium Sodium Vanadium Zinc
MW15	Aluminum Arsenic Barium Calcium Iron	Magnesium Manganese Potassium Sodium	Aluminum Arsenic Barium Calcium Chromium Cobalt Copper Iron	Lead Magnesium Manganese Nickel Potassium Sodium Zinc

Table 4 (continued) Summary Comparison of Inorganic Analytes Upper Aquifer Wells				
	Detected Substances			
	EPA sample		MW sample	
MW18	Barium Calcium	Magnesium Manganese Selenium Sodium	Aluminum Barium Calcium Chromium Copper Iron Lead	Magnesium Manganese Nickel Potassium Selenium Sodium Zinc
MW46	Aluminum Arsenic Barium Calcium Iron	Magnesium Manganese Sodium	Aluminum Arsenic Barium Calcium Chromium Cobalt Copper Iron	Lead Magnesium Manganese Nickel Potassium Sodium Vanadium Zinc
MW11	Aluminum Arsenic Barium Calcium Chromium Copper Iron	Magnesium Manganese Sodium	Aluminum Barium Calcium Chromium Cobalt Copper Iron Lead	Magnesium Manganese Nickel Potassium Sodium Vanadium Zinc

Table 4 (continued) Summary Comparison of Inorganic Analytes Upper Aquifer Wells				
	Detected Substances			
	EPA sample		MW sample	
MW37	Aluminum	Magnesium	Aluminum	Magnesium
	Arsenic	Manganese	Barium	Manganese
	Barium	Sodium	Calcium	Nickel
	Cadmium		Chromium	Potassium
	Calcium		Cobalt	Sodium
	Iron		Copper	Vanadium
			Iron	Zinc
			Lead	

Table 4 (continued) Summary Comparison of Inorganic Analytes Lower Aquifer Wells				
	Detected Substances			
	EPA sample		MW sample	
M4D	Aluminum Barium Calcium Iron	Magnesium Manganese Sodium	Aluminum Barium Calcium Chromium Copper Iron Lead	Magnesium Manganese Nickel Potassium Sodium Zinc
MW10C	Aluminum Barium Cadmium Calcium Chromium Cobalt Copper Iron	Magnesium Manganese Nickel Sodium Vanadium Zinc	Aluminum Antimony Arsenic Barium Beryllium Calcium Chromium Cobalt Copper	Iron Lead Magnesium Manganese Nickel Potassium Sodium Vanadium Zinc
MW23	Aluminum Barium Calcium Iron	Magnesium Manganese Sodium	Aluminum Barium Calcium Chromium Cobalt Copper Iron Lead	Magnesium Manganese Nickel Potassium Sodium Vanadium Zinc

Table 4 (continued) Summary Comparison of Inorganic Analytes Lower Aquifer Wells				
	Detected Substances			
	EPA sample		MW sample	
MW28	Aluminum Arsenic Barium Calcium Chromium Copper Iron	Magnesium Manganese Nickel Sodium	Aluminum Barium Calcium Chromium Cobalt Copper Iron Lead	Magnesium Manganese Nickel Potassium Sodium Vanadium Zinc
MW50	Aluminum Arsenic Barium Calcium Iron	Magnesium Manganese Potassium Sodium	Aluminum Barium Beryllium Calcium Chromium Cobalt Copper Iron Lead	Magnesium Manganese Nickel Potassium Sodium Vanadium Zinc
MW51	Aluminum Arsenic Barium Calcium Iron	Magnesium Manganese Sodium	Aluminum Barium Calcium Chromium Cobalt Copper Iron Lead	Magnesium Manganese Nickel Potassium Sodium Zinc

Table 4 (continued) Summary Comparison of Inorganic Analytes Lower Aquifer Wells				
	Detected Substances			
	EPA sample		MW sample	
MW8	Arsenic Barium Calcium Iron	Magnesium Manganese Sodium	Aluminum Arsenic Barium Calcium Chromium Copper Iron Lead	Magnesium Manganese Nickel Potassium Sodium Zinc

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Monitoring Well Sample Data Comparison

American Chemical Services, Inc.

Compound/Analyte	Sample Location/Concentration (µg/l)									
	M3S (Upper Aquifer)		M4S (Upper Aquifer)		M4D (Lower Aquifer)		M2S (Upper Aquifer)		M1S (Upper Aquifer)	
	EBZA6 USEPA	PRP	EBZC2 USEPA	PRP	EBZB9 USEPA	PRP	EBZC0 USEPA	PRP	EBZA5 USEPA	PRP
Volatile Organic Compounds										
Chloromethane	1 U	10 U	1 U	100 U	1 U	10 U	1 U	10 U	1 U	10 U
Bromomethane	1 U	10 U	1 U	100 U	1 U	10 U	1 U	10 U	1 U	10 U
Vinyl chloride	1 U	10 U	4	100 U	1 U	10 U	1 U	10 U	1 U	10 U
Chloroethane	1 U	10 UJ	**647 E**	**1300 J**	1 U	10 UJ	1 U	10 UJ	1 JU	10 UJ
Methylene chloride	2 U	10 U	8 B	100 U	2 U	10 U	2 U	10 U	2 U	10 U
Acetone	5 JBU	10 U	5 U	100 U	5 U	10 U	5 JBU	10 U	5 U	10 U
Carbon disulfide	1 JU	10 U	1 U	100 U	1 U	10 U	1 U	10 U	1 U	10 U
1,1-Dichloroethene	1 U	10 U	1 U	100 U	1 U	10 U	1 U	10 U	1 U	10 U
1,1-Dichloroethane	1 U	10 U	1 U	100 U	1 U	10 U	1 U	10 U	1 U	10 U
cis-1,2-Dichloroethene	1 U	--	0.5 J	--	1 U	--	1 U	--	1 U	--
trans-1,2-Dichloroethene	1 U	--	21	--	1 U	--	1 U	--	1 U	--
1,2-Dichloroethene (total)	--	10 U	--	15 J	--	10 U	--	10 U	--	10 U
Chloroform	1 U	10 U	1 U	100 U	1 U	10 U	1 U	10 U	1 U	10 U
1,2-Dichloroethane	1 U	10 U	1 U	100 UJ	1 U	10 UJ	1 U	10 U	1 U	10 U
2-Butanone	5 U	10 U	5 U	100 U	5 U	10 U	5 U	10 U	5 U	10 U
Bromochloromethane	1 U	--	1 U	--	1 U	--	1 U	--	1 U	--
1,1,1-trichloroethane	1 U	10 U	1 U	100 U	1 U	10 U	1 U	10 U	1 U	10 U
Carbon tetrachloride	1 U	10 U	1 U	100 U	1 U	10 U	1 U	10 U	1 U	10 U
Bromodichloromethane	1 U	10 U	1 U	100 U	1 U	10 U	1 U	10 U	1 U	10 U
1,2-Dichloropropane	1 U	10 U	1 U	100 U	1 U	10 U	1 U	10 U	1 U	10 U
cis-1,3-dichloropropene	1 U	10 U	1 U	100 U	1 U	10 U	1 U	10 U	1 U	10 U
Trichloroethene	1 U	10 U	1 U	100 U	1 U	10 U	1 U	10 U	1 U	10 U
Dibromochloromethane	1 U	10 U	1 U	100 U	1 U	10 U	1 U	10 U	1 U	10 U
1,1,2-Trichloroethane	1 U	10 U	1 U	100 U	1 U	10 U	1 U	10 U	1 U	10 U
Benzene	1 JU	10 U	**96 E**	**190**	1 U	10 U	1 U	10 U	1 JU	10 U
trans-1,3-Dichloropropene	1 U	10 U	1 U	100 U	1 U	10 U	1 U	10 U	1 U	10 U
Bromoform	1 U	10 U	1 U	100 U	1 U	10 U	1 U	10 U	1 U	10 U
4-Methyl-2-pentanone	5 U	10 U	2 J	100 U	5 U	10 U	5 U	10 U	5 U	10 U
2-Hexanone	5 U	10 U	5 U	100 U	5 U	10 U	5 U	10 U	5 U	10 U
Tetrachloroethene	1 U	10 U	1 U	100 U	1 U	10 U	1 U	10 U	1 U	10 U
1,1,2,2-Tetrachloroethane	1 U	10 U	1 U	100 U	1 U	10 U	1 U	10 U	1 U	10 U
1,2-Dibromoethane	1 U	--	1 U	--	1 U	--	1 U	--	1 U	--
Toluene	1 U	10 U	1	100 U	1 U	10 U	1 U	10 U	0.3 J	10 U
Chlorobenzene	1 U	10 U	1 U	100 U	1 U	10 U	1 U	10 U	1 U	10 U
Ethylbenzene	1 U	10 U	1 U	100 U	1 U	10 U	1 U	10 U	1 U	10 U
Styrene	1 U	10 U	1 U	100 U	1 U	10 U	1 U	10 U	1 U	10 U
Xylene (total)	1 U	10 U	1 U	100 U	1 U	10 U	1 U	10 U	1 U	10 U
1,3-Dichlorobenzene	1 U	--	1 U	--	1 U	--	1 U	--	1 U	--
1,4-Dichlorobenzene	1 U	--	1 U	--	1 U	--	1 U	--	1 U	--
1,2-Dichlorobenzene	1 U	--	1 U	--	1 U	--	1 U	--	1 U	--
1,2-Dibromo-3-chloropropane	1 U	--	1 U	--	1 U	--	1 U	--	1 U	--
1,2,4-Trichlorobenzene	1 U	--	1 U	--	1 U	--	1 U	--	1 U	--
VOA TICs	0	0	10	2	0	0	0	0	1	1

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Monitoring Well Sample Data Comparison

American Chemical Services, Inc.

Compound/Analyte	Sample Location/Concentration (µg/l)									
	M3S (Upper Aquifer)		M4S (Upper Aquifer)		M4D (Lower Aquifer)		M2S (Upper Aquifer)		M1S (Upper Aquifer)	
	EBZA6 USEPA	PRP	EBZC2 USEPA	PRP	EBZB9 USEPA	PRP	EBZC0 USEPA	PRP	EBZA5 USEPA	PRP
Semivolatile Organic Compounds										
Phenol	3 J	10 U	5 U	10 U	**28**	**8 J**	**8**	**4 J**	14	16
bis(2-Chloroethyl)ether	5 U	10 U	81 E	71	5 U	10 U	5 U	10 U	5 U	10 U
2-Chlorophenol	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U
1.3-Dichlorobenzene	--	10 U	--	10 U	--	10 U	--	10 U	--	10 U
1.4-Dichlorobenzene	--	10 U	--	10 U	--	10 U	--	10 U	--	10 U
1.2-Dichlorobenzene	--	10 U	--	10 U	--	10 U	--	10 U	--	10 U
2-Methylphenol	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U
2.2'-oxybis-(1-Chloropropane)	4 J	3 J	5 U	10 U	5 U	10 U	3 J	10 U	5 U	10 U
4-Methylphenol	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U
N-Nitroso-di-n-propylamine	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U
Hexachloroethane	5 U	10 UJ	5 U	10 U	5 U	10 U	5 U	10 UJ	5 U	10 UJ
Nitrobenzene	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U
Isophorone	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U
2-Nitrophenol	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U
2.4-Dimethylphenol	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U
bis(2-Chloroethoxy)methane	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U
2.4-Dichlorophenol	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U
1.2.4-Trichlorobenzene	--	10 U	--	10 U	--	10 U	--	10 U	--	10 U
Naphthalene	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U
4-Chloroaniline	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U
Hexachlorobutadiene	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U
4-Chloro-3-methylphenol	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U
2-Methylnaphthalene	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U
Hexachlorocyclopentadiene	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U
2.4.6-Trichlorophenol	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U
2.4.5-Trichlorophenol	20 U	25 U	20 U	25 U	20 U	25 U	20 U	25 U	20 U	25 U
2-Chloronaphthalene	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U
2-Nitroaniline	20 U	25 U	20 U	25 U	20 U	25 U	20 U	25 U	20 U	25 U
Dimethylphthalate	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U
Acenaphthylene	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U
2.6-Dinitrotoluene	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U
3-Nitroaniline	20 U	25 U	20 U	25 U	20 U	25 U	20 U	25 U	20 U	25 U
Acenaphthene	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U
2.4-Dinitrophenol	20 U	25 U	20 U	25 U	20 U	25 U	20 U	25 U	20 U	25 U
4-Nitrophenol	20 U	25 UJ	20 U	25 U	20 U	25 U	20 U	25 UJ	20 U	25 UJ
Dibenzofuran	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U
2.4-Dinitrotoluene	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U
Diethylphthalate	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U
4-Chlorophenyl-phenylether	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U
Fluorene	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U
4-Nitroaniline	20 U	25 U	20 U	25 U	20 U	25 U	20 U	25 U	20 U	25 U
4.6-Dinitro-2-methylphenol	20 U	25 U	20 U	25 U	20 U	25 U	20 U	25 U	20 U	25 U
N-Nitrosodiphenylamine	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U
4-Bromophenyl-phenylether	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U
Hexachlorobenzene	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U

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Monitoring Well Sample Data Comparison

American Chemical Services, Inc.

Compound/Analyte	Sample Location/Concentration (µg/l)									
	M3S (Upper Aquifer)		M4S (Upper Aquifer)		M4D (Lower Aquifer)		M2S (Upper Aquifer)		M1S (Upper Aquifer)	
	EBZA6 USEPA	PRP	EBZC2 USEPA	PRP	EBZB9 USEPA	PRP	EBZC0 USEPA	PRP	EBZA5 USEPA	PRP
Pentachlorophenol	20 U	25 U	20 U	25 U	20 U	25 U	20 U	10 U	20 U	10 U
Phenanthrene	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U
Anthracene	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U
Carbazole	--	10 U	--	10 U	--	10 U	--	10 U	--	10 U
Di-n-butylphthalate	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U
Fluoranthene	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U
Pyrene	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U
Butylbenzylphthalate	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U
3,3'-Dichlorobenzidine	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U
Benzo(a)anthracene	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U
Chrysene	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U
bis(2-Ethylhexyl)phthalate	4 J	10 U	5 U	4 J	2 J	10 U	**110 E**	**4 J**	**14**	**10 J**
Di-n-octylphthalate	5 U	10 U	5 UJ	10 U	5 U	10 U	5 U	10 U	5 U	10 U
Benzo(b)fluoranthene	5 U	10 U	5 UJ	10 U	5 U	10 U	5 U	10 U	5 U	10 U
Benzo(k)fluoranthene	5 U	10 U	5 UJ	10 U	5 U	10 U	5 U	10 U	5 U	10 U
Benzo(a)pyrene	5 U	10 U	5 UJ	10 U	5 U	10 U	5 U	10 U	5 U	10 U
Indeno(1,2,3-cd)pyrene	5 U	10 U	5 UJ	10 U	5 U	10 U	5 U	10 U	5 U	10 U
Dibenzo(a,h)anthracene	5 U	10 U	5 UJ	10 U	5 U	10 U	5 U	10 U	5 U	10 U
Benzo(g,h,i)perylene	5 U	10 U	5 UJ	10 U	5 U	10 U	5 U	10 U	5 U	10 U
SVOA TICs	1	2	16	20	2	4	0	1	2	6
Pesticides										
Alpha-BHC	0.010 U	0.050 U	0.010 U	0.050 U	0.010 U	0.050 U	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	0.010 U	0.050 U	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	0.010 U	0.050 U	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	0.010 U	0.050 U	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	0.010 U	0.050 U	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	0.010 U	0.050 U	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	0.010 U	0.050 U	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	0.010 U	0.050 U	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	0.020 U	0.10 U	0.020 U	0.10 U	0.020 U	0.10 U
p,p'-DDE	0.020 U	0.10 UJ	0.020 U	0.10 UJ	0.020 U	0.10 UJ	0.020 U	0.10 UJ	0.020 U	0.10 UJ
Endrin	0.020 U	0.10 UJ	0.020 U	0.10 UJ	0.020 U	0.10 UJ	0.020 U	0.10 UJ	0.020 U	0.10 UJ
Endosulfan II	0.020 U	0.10 U	0.020 U	0.10 U	0.020 U	0.10 U	0.020 U	0.10 U	0.020 U	0.10 U
p,p'-DDD	0.020 U	0.10 UJ	0.020 U	0.10 UJ	0.020 U	0.10 UJ	0.020 U	0.10 UJ	0.020 U	0.10 UJ
Endosulfan Sulfate	0.020 U	0.10 U	0.020 U	0.10 U	0.020 U	0.10 U	0.020 U	0.10 U	0.020 U	0.10 U
p,p'-DDT	0.020 U	0.10 UJ	0.020 U	0.10 UJ	0.020 U	0.10 UJ	0.020 U	0.10 UJ	0.020 U	0.10 UJ
Methoxychlor	0.10 U	0.50 U	0.10 U	0.50 U	0.10 U	0.50 U	0.10 U	0.50 U	0.10 U	0.50 U
Endrin Ketone	0.020 U	0.10 UJ	0.020 U	0.10 UJ	0.020 U	0.10 UJ	0.020 U	0.10 UJ	0.020 U	0.10 UJ
Endrin Aldehyde	0.020 U	0.10 UJ	0.020 U	0.10 UJ	0.020 U	0.10 UJ	0.020 U	0.10 UJ	0.020 U	0.10 UJ
Alpha-chlordane	0.010 U	0.050 U	0.010 U	0.050 U	0.010 U	0.050 U	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	0.010 U	0.050 U	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	1.0 U	5.0 U	1.0 U	5.0 U	1.0 U	5.0 U

T 5

June 1997 Uppe. Lower Aquifer

Monitoring Well Sample Data Comparison

American Chemical Services, Inc.

Compound/Analyte	Sample Location/Concentration (µg/l)									
	M3S (Upper Aquifer)		M4S (Upper Aquifer)		M4D (Lower Aquifer)		M2S (Upper Aquifer)		M1S (Upper Aquifer)	
	EBZA6 USEPA	PRP	EBZC2 USEPA	PRP	EBZB9 USEPA	PRP	EBZC0 USEPA	PRP	EBZA5 USEPA	PRP
PCBs										
Aroclor 1016	0.20 U	1.0 U	0.20 U	1.0 U	0.20 U	1.0 U	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	0.40 U	2.0 U	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	0.20 U	1.0 U	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	0.20 U	1.0 U	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	0.20 U	1.0 U	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	0.20 U	1.0 U	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	0.20 U	1.0 U	0.20 U	1.0 U	0.20 U	1.0 U
Inorganic Analytes										
Aluminum	80 U	72.1 B	710	653	**83.6**	**247**	80 U	104 B	98.9	105 B
Antimony	1 U	2.0 U	2	2.0 U	1 U	2.0 U	1 U	2.0 U	1 U	2.0 U
Arsenic	8	6.7 B	6	5.5 B	0.5 U	2.0 U	3	3.3 B	0.5	2.0 U
Barium	116	112 BE	823	737	186	179 B	100	95.2 BE	544	528 E
Beryllium	1 U	1.0 U	1 U	1.2 B	1 U	1.0 U	1 U	1.0 U	1 U	1.0 U
Cadmium	0.2 U	1.0 U	0.2 U	1.0 U	0.2 U	1.0 U	0.2 U	1.0 U	0.2 U	1.0 U
Calcium	90,200	85,400 E	486,000	397,000	88,700	84,100	133,000	124,000 E	228,000	212,000 E
Chromium	10 U	4.3 B	10 U	5.8 B	10 U	2.7 B	10 U	3.2 B	10 U	3.6 B
Cobalt	6 U	1.5 B	**8.9**	**6.3 B**	6 U	1.0 U	6 U	1.1 B	6 U	2.2 B
Copper	6 U	3.5 B	6 U	5.9 B	6 U	4.3 B	6 U	3.9 B	6 U	3.0 B
Iron	3,310	2,820 E	48,700	39,500	1,830	1,700	29,500	25,300 E	21,200	19,700 E
Lead	**2 U**	**3.0 B**	2 U	2.2 B	2 U	2.1 B	2 U	2.2 B	2 U	1.0 U
Magnesium	30,500	30,300 E	51,400	49,500	41,400	39,800	36,600	35,100 E	76,100	73,400 E
Manganese	611	618 E	316	353	32.7	34.1	1,380	1,340 E	588	577 E
Mercury	0.2 U	0.20 U	0.2 U	0.20 U	0.2 U	0.20 U	0.2 U	0.20 U	0.2 U	0.20 U
Nickel	20 U	8.0 B	20 U	17.2 B	20 U	2.5 B	20 U	3.1 B	20 U	6.2 B
Potassium	7,230	8,330 E	**13,800**	**23,000 E**	5,000 U	4,880 BE	5,000 U	4,580 BE	38,800	46,400 E
Selenium	1 U	2.0 U	2 U	2.0 U	0.5 U	2.0 U	1 U	2.0 U	2 U	2.0 U
Silver	6 U	1.0 U	6 U	1.0 U	6 U	1.0 U	6 U	1.0 U	6 U	1.0 U
Sodium	23,500	24,100 E	144,000	130,000	74,300	71,700	16,700	17,200 E	63,600	67,300 E
Thallium	2 U	2.0 U	2 U	2.0 U	2 U	2.0 U	2 U	2.0 U	2 U	2.0 U
Vanadium	5 U	1.5 B	5 U	3.4 B	5 U	1.0 U	5 U	1.8 B	**5.5**	**1.8 B**
Zinc	40 U	17.1 B	40 U	20.4	40 U	18.8 B	40 U	12.1 B	40 U	15.1 B
Cyanide	8 U	10.0 U	8 U	10.0 U	8 U	10.0 U	8 U	10.0 U	8 U	10.0 U

Table 5 (Cor' 4)
June 1997 Upper and . er Aquifer
Monitoring Well Sample Data Comparison
American Chemical Services, Inc.

Compound/Analyte	Sample Location/Concentration (µg/l)									
	MW10C (Lower Aquifer)		MW38 (Upper Aquifer)		MW15 (Upper Aquifer)		MW23 (Lower Aquifer)		MW28 (Lower Aquifer)	
	EBZC3 USEPA	PRP	EBZA0 USEPA	PRP	EBYZ8 USEPA	PRP	EBZB0 USEPA	PRP	EBZB4 USEPA	PRP
Volatile Organic Compounds										
Chloromethane	1 U	50 U	1 U	10 U	1 U	10 U	1 U	10 U	0.4 J	10 U
Bromomethane	1 U	50 UJ	1 U	10 U	1 U	10 U	1 U	10 U	1 U	10 U
Vinyl chloride	**10**	**7 J**	1 U	10 U	1 U	10 U	1 U	10 U	1 U	10 U
Chloroethane	437 E	340 J	1 U	10 U	1	10 UJ	1 U	10 UJ	1 U	10 UJ
Methylene chloride	4 B	5 J	2 JBU	10 U	2 JBU	10 U	2 JBU	10 U	2 U	10 U
Acetone	5 U	50 U	5 JBU	10 U	5 JBU	10 U	5 JBU	10 U	**5 JBU**	**7 J**
Carbon disulfide	1	50 U	1 U	10 U	1 U	10 U	1 J	10 U	1 U	10 U
1,1-Dichloroethene	1 U	50 U	1 U	10 U	1 U	10 U	1 U	10 U	1 U	10 U
1,1-Dichloroethane	1 U	50 U	1 U	10 U	1 U	10 U	1 U	10 U	1 U	10 U
cis-1,2-Dichloroethene	1 U	--	1 U	--	1 U	--	1 U	--	1 U	--
trans-1,2-Dichloroethene	1 U	--	1 U	--	1 U	--	1 U	--	1 U	--
1,2-Dichloroethene (total)	--	50 U	--	10 U	--	10 U	--	10 U	--	10 U
Chloroform	1 U	50 U	1 U	10 U	1 U	10 U	1 U	10 U	1 U	10 U
1,2-Dichloroethane	0.3 J	50 UJ	1 U	10 U	1 U	10 UJ	1 U	10 UJ	1 U	10 UJ
2-Butanone	5 U	50 U	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U
Bromochloromethane	1 U	--	1 U	--	1 U	--	1 U	--	1 U	--
1,1,1-trichloroethane	1 U	50 U	1 U	10 U	1 U	10 U	1 U	10 U	1 U	10 U
Carbon tetrachloride	1 U	50 U	1 U	10 U	1 U	10 U	1 U	10 U	1 U	10 U
Bromodichloromethane	1 U	50 U	1 U	10 U	1 U	10 U	1 U	10 U	1 U	10 U
1,2-Dichloropropane	1 U	50 U	1 U	10 U	1 U	10 U	1 U	10 U	1 U	10 U
cis-1,3-dichloropropene	1 U	50 U	1 U	10 U	1 U	10 U	1 U	10 U	1 U	10 U
Trichloroethene	1 U	50 U	1 U	10 U	1 U	10 U	1 U	10 U	1 U	10 U
Dibromochloromethane	1 U	50 U	1 U	10 U	1 U	10 U	1 U	10 U	1 U	10 U
1,1,2-Trichloroethane	1 U	50 U	1 U	10 U	1 U	10 U	1 U	10 U	1 U	10 U
Benzene	1	50 U	1 U	10 U	**2**	**3 J**	**0.2 J**	**6 J**	1 U	10 U
trans-1,3-Dichloropropene	1 U	50 U	1 U	10 U	1 U	10 U	1 U	10 U	1 U	10 U
Bromoform	1 U	50 U	1 U	10 U	1 U	10 U	1 U	10 U	1 U	10 U
4-Methyl-2-pentanone	2 J	50 U	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U
2-Hexanone	5 U	50 U	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U
Tetrachloroethene	1 U	50 U	1 U	10 U	1 U	10 U	1 U	10 U	1 U	10 U
1,1,2,2-Tetrachloroethane	1 U	50 U	1 U	10 U	1 U	10 U	1 U	10 U	1 U	10 U
1,2-Dibromoethane	1 U	--	1 U	--	1 U	--	1 U	--	1 U	--
Toluene	1	50 U	1 U	10 U	1.0 J	1 J	0.3 J	10 U	0.3 J	10 U
Chlorobenzene	1 U	50 U	1 U	10 U	1 U	10 U	1 U	10 U	1 U	10 U
Ethylbenzene	1 U	50 U	1 U	10 U	1 U	10 U	1 U	10 U	1 U	10 U
Styrene	1 U	50 U	1 U	10 U	1 U	10 U	1 U	10 U	1 U	10 U
Xylene (total)	1 U	50 U	1 U	10 U	1 U	10 U	1 U	10 U	1 U	10 U
1,3-Dichlorobenzene	1 U	--	1 U	--	1 U	--	1 U	--	1 U	--
1,4-Dichlorobenzene	1 U	--	1 U	--	1 U	--	1 U	--	1 U	--
1,2-Dichlorobenzene	1 U	--	1 U	--	1 U	--	1 U	--	1 U	--
1,2-Dibromo-3-chloropropane	1 U	--	1 U	--	1 U	--	1 U	--	1 U	--
1,2,4-Trichlorobenzene	1 U	--	1 U	--	1 U	--	1 U	--	1 U	--
VOA TICs	1	1	0	0	0	0	0	1	0	0

Table 5 (Co d)
June 1997 Upper and ver Aquifer
Monitoring Well Sample Data Comparison
American Chemical Services, Inc.

Compound/Analyte	Sample Location/Concentration (µg/l)									
	MW10C (Lower Aquifer)		MW38 (Upper Aquifer)		MW15 (Upper Aquifer)		MW23 (Lower Aquifer)		MW28 (Lower Aquifer)	
	EBZC3 USEPA	PRP	EBZA0 USEPA	PRP	EBYZ8 USEPA	PRP	EBZB0 USEPA	PRP	EBZB4 USEPA	PRP
Semivolatile Organic Compounds										
Phenol	**2 J**	**19**	6 U	5 J	13 U	11 U	**7**	**29 J**	73	69
bis(2-Chloroethyl)ether	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U
2-Chlorophenol	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U
1,3-Dichlorobenzene	--	10 U	--	10 U	--	10 U	--	10 U	--	10 U
1,4-Dichlorobenzene	--	10 U	--	10 U	--	10 U	--	10 U	--	10 U
1,2-Dichlorobenzene	--	10 U	--	10 U	--	10 U	--	10 U	--	10 U
2-Methylphenol	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U
2,2'-oxybis-(1-Chloropropane)	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U
4-Methylphenol	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U
N-Nitroso-di-n-propylamine	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U
Hexachloroethane	5 U	10 U	5 U	10 U	5 U	10 UJ	5 U	10 U	5 U	10 U
Nitrobenzene	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U
Isophorone	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U
2-Nitrophenol	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U
2,4-Dimethylphenol	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U
bis(2-Chloroethoxy)methane	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U
2,4-Dichlorophenol	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U
1,2,4-Trichlorobenzene	--	10 U	--	10 U	--	10 U	--	10 U	--	10 U
Naphthalene	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U
4-Chloroaniline	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U
Hexachlorobutadiene	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U
4-Chloro-3-methylphenol	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U
2-Methylnaphthalene	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U
Hexachlorocyclopentadiene	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U
2,4,6-Trichlorophenol	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U
2,4,5-Trichlorophenol	20 U	25 U	20 U	25 U	20 U	25 U	20 U	25 U	20 U	25 U
2-Chloronaphthalene	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U
2-Nitroaniline	20 U	25 U	20 U	25 U	20 U	25 U	20 U	25 U	20 U	25 U
Dimethylphthalate	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U
Acenaphthylene	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U
2,6-Dinitrotoluene	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U
3-Nitroaniline	20 U	25 U	20 U	25 U	20 U	25 U	20 U	25 U	20 U	25 U
Acenaphthene	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U
2,4-Dinitrophenol	20 U	25 U	20 U	25 U	20 U	25 U	20 U	25 U	20 U	25 U
4-Nitrophenol	20 U	25 U	20 U	25 U	20 U	25 UJ	20 U	25 U	20 U	25 U
Dibenzofuran	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U
2,4-Dinitrotoluene	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U
Diethylphthalate	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U
4-Chlorophenyl-phenylether	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U
Fluorene	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U
4-Nitroaniline	20 U	25 U	20 U	25 U	20 U	25 U	20 U	25 U	20 U	25 U
4,6-Dinitro-2-methylphenol	20 U	25 U	20 U	25 U	20 U	25 U	20 U	25 U	20 U	25 U
N-Nitrosodiphenylamine	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U
4-Bromophenyl-phenylether	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U
Hexachlorobenzene	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U

Table 5 (Co d)
June 1997 Upper anu ver Aquifer
Monitoring Well Sample Data Comparison
American Chemical Services, Inc.

Compound/Analyte	Sample Location/Concentration (µg/l)									
	MW10C (Lower Aquifer)		MW38 (Upper Aquifer)		MW15 (Upper Aquifer)		MW23 (Lower Aquifer)		MW28 (Lower Aquifer)	
	EBZC3 USEPA	PRP	EBZA0 USEPA	PRP	EBYZ8 USEPA	PRP	EBZB0 USEPA	PRP	EBZB4 USEPA	PRP
Pentachlorophenol	20 U	25 U	20 U	25 U	20 U	25 U	20 U	25 U	20 U	25 U
Phenanthrene	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U
Anthracene	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U
Carbazole	--	10 U	--	10 U	--	10 U	--	10 U	--	10 U
Di-n-butylphthalate	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U
Fluoranthene	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U
Pyrene	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U
Butylbenzylphthalate	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U
3,3'-Dichlorobenzidine	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U
Benzo(a)anthracene	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U
Chrysene	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U
bis(2-Ethylhexyl)phthalate	1 J	10 UJ	5 U	5 J	15	12 U	5 U	4 J	**14**	**6 J**
Di-n-octylphthalate	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U
Benzo(b)fluoranthene	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U
Benzo(k)fluoranthene	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U
Benzo(a)pyrene	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U
Indeno(1,2,3-cd)pyrene	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U
Dibenzo(a,h)anthracene	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U
Benzo(g,h,i)perylene	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U
SVOA TICs	5	20	0	0	2	5	0	12	3	8
Pesticides										
Alpha-BHC	0.010 U	0.050 U	0.010 U	0.050 U	0.010 U	0.050 U	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	0.010 U	0.050 U	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	0.010 U	0.050 U	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	0.010 U	0.050 U	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	0.010 U	0.050 U	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	0.010 U	0.050 U	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	0.010 U	0.050 U	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	0.010 U	0.050 U	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	0.020 U	0.10 U	0.020 U	0.10 U	0.020 U	0.10 U
p,p'-DDE	0.020 U	0.10 UJ	0.020 U	0.10 UJ	0.020 U	0.10 UJ	0.020 U	0.10 U	0.020 U	0.10 U
Endrin	0.020 U	0.10 UJ	0.020 U	0.10 UJ	0.020 U	0.10 UJ	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	0.020 U	0.10 U	0.020 U	0.10 U	0.020 U	0.10 U
p,p'-DDD	0.020 U	0.10 UJ	0.020 U	0.10 UJ	0.020 U	0.10 UJ	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	0.020 U	0.10 U	0.020 U	0.10 U	0.020 U	0.10 U
p,p'-DDT	0.020 U	0.10 UJ	0.020 U	0.10 UJ	0.020 U	0.10 UJ	0.020 U	0.10 U	0.021 P	0.10 U
Methoxychlor	0.10 U	0.50 U	0.10 U	0.50 U	0.10 U	0.50 U	0.10 U	0.50 U	0.10 U	0.50 U
Endrin Ketone	0.020 U	0.10 UJ	0.020 U	0.10 UJ	0.020 U	0.10 UJ	0.020 U	0.10 U	0.020 U	0.10 U
Endrin Aldehyde	0.020 U	0.10 UJ	0.020 U	0.10 UJ	0.020 U	0.10 UJ	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	0.010 U	0.050 U	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	0.010 U	0.050 U	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	1.0 U	5.0 U	1.0 U	5.0 U	1.0 U	5.0 U

Table 5 (Cor' 'd)
June 1997 Upper anc er Aquifer
Monitoring Well Sample Data Comparison
American Chemical Services, Inc.

Compound/Analyte	Sample Location/Concentration (µg/l)									
	MW10C (Lower Aquifer)		MW38 (Upper Aquifer)		MW15 (Upper Aquifer)		MW23 (Lower Aquifer)		MW28 (Lower Aquifer)	
	EBZC3 USEPA	PRP	EBZA0 USEPA	PRP	EBYZ8 USEPA	PRP	EBZB0 USEPA	PRP	EBZB4 USEPA	PRP
PCBs										
Aroclor 1016	0.20 U	1.0 U	0.20 U	1.0 U	0.20 U	1.0 U	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	0.40 U	2.0 U	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	0.20 U	1.0 U	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	0.20 U	1.0 U	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	0.20 U	1.0 U	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	0.20 U	1.0 U	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	0.20 U	1.0 U	0.20 U	1.0 U	0.20 U	1.0 U
Inorganic Analytes										
Aluminum	3,120	3,560	**80 U**	**134 B**	**106**	**308**	149	252	533	691
Antimony	**1 U**	**3.6 B**	1 U	2.0 U	1 U	2.0 U	1 U	2.0 U	1 U	2.0 U
Arsenic	3 U	3.4 B	1	2.0 U	42	41.0	0.5 U	2.0 U	1	2.0 U
Barium	343	339	35.1	33.1 BE	1,150	1,070 E	119	116 B	112	102 B
Beryllium	1 U	1.1 B	1 U	1.0 U	1 U	1.0 U	1 U	1.0 U	1 U	1.0 U
Cadmium	0.2	1.0 U	0.2 U	1.0 U	0.2 U	1.0 U	0.2 U	1.0 U	0.2 U	1.0 U
Calcium	128,000	130,000	60,700	54,900 E	74,200	67,900 E	73,800	72,600 E	85,100	77,900 E
Chromium	**38.5**	**26.6**	10 U	4.2 B	10 U	6.1 B	10 U	7.4 B	50.3	51.1
Cobalt	**6.2**	**4.4 B**	6 U	7.1 B	6 U	3.8 B	6 U	1.3 B	6 U	2.0 B
Copper	11.4	10.9 B	**6 U**	**9.7 B**	**6 U**	**12.2 B**	6 U	4.1 B	11.3	13.6 B
Iron	15,200	12,700	1,780	1,940 E	6,140	5,510 E	5,990	5,790	3,320	2,880
Lead	8 U	10.1	2 U	1.1 B	**2 U**	**5.0**	**2 U**	**3.1**	4 U	4.6
Magnesium	59,700	59,400	20,800	19,400 E	73,400	66,800 E	19,100	18,800	38,400	35,200
Manganese	235.1	264	1,350	1270 E	186	167 E	252	249	79.5	72.3
Mercury	0.2 U	0.20 U	0.2 U	0.20 U	0.2 U	0.20 U	0.2 U	0.20 U	0.2 U	0.20 U
Nickel	**39.7**	**26.1 B**	26.2	21.8 B	20 U	19.4 B	20 U	5.2 B	45.2	35.5 B
Potassium	**5,000 U**	**6,770 E**	5,000 U	593 BE	86,700	96,500 E	5,000 U	3,180 B	5,000 U	2,220 B
Selenium	1 U	2.0 U	0.5 U	2.0 U	2 U	2.0 U	0.5 U	2.0 U	0.5 U	2.0 U
Silver	6 U	1.0 U	6 U	1.0 U	6 U	1.0 U	6 U	1.0 U	6 U	1.0 U
Sodium	178,000	163,000	5,400	5,400 E	389,000	347,000 E	63,700	63,300	15,000	14,400
Thallium	2 U	2.0 U	2 U	2.0 U	2 U	2.0 U	2 U	2.0 U	2 U	2.0 U
Vanadium	7.9	7.9 B	5 U	2.7 B	5 U	1.0 U	5 U	2.4 B	5 U	1.7 B
Zinc	**54.8**	**75.2**	63.2	72.7	40 U	43.6	40 U	11.6 B	40 U	20.4
Cyanide	8 U	10.0 U	8 U	10.0 U	8 U	10.0 U	8 U	10.0 U	8 U	10.0 U

Table 5 (Continued)
June 1997 Upper and Lower Aquifer
Monitoring Well Sample Data Comparison
American Chemical Services, Inc.

Compound/Analyte	Sample Location/Concentration (µg/l)							
	MW18 (Upper Aquifer)		MW46 (Upper Aquifer)		MW50 (Lower Aquifer)		MW51 (Lower Aquifer)	
	EBZA2 USEPA	PRP	EBZA7 USEPA	PRP	EBZA8 USEPA	PRP	EBZA4RE USEPA	PRP
Volatile Organic Compounds								
Chloromethane	1 U	10 U	1 U	10 U	1 U	10 U	1 U	10 U
Bromomethane	1 U	10 U	1 U	10 U	1 U	10 U	1 U	10 U
Vinyl chloride	1 U	10 U	0.4 J	10 U	1 U	10 U	1 U	10 U
Chloroethane	1 U	10 UJ	1 U	10 UJ	1 U	10 UJ	1 U	10 UJ
Methylene chloride	2 JBU	10 U	2 U	10 U	2 U	10 U	2 U	10 U
Acetone	5 JBU	10 U	5 JBU	10 U	5 JBU	10 U	5 U	10 U
Carbon disulfide	1 U	10 U	1 U	10 U	1 U	10 U	1 U	10 U
1.1-Dichloroethene	1 U	10 U	1 U	10 U	1 U	10 U	1 U	10 U
1.1-Dichloroethane	1 U	10 U	1 U	10 U	1 U	10 U	1 U	10 U
cis-1.2-Dichloroethene	1 U	--	0.6 J	--	1 U	--	1 U	--
trans-1.2-Dichloroethene	1 U	--	1 U	--	1 U	--	1 U	--
1.2-Dichloroethene (total)	--	10 U	--	10 U	--	10 U	1 U	10 U
Chloroform	1 U	10 U	1 U	10 U	1 U	10 U	1 U	10 U
1.2-Dichloroethane	1 U	10 UJ	1 U	10 UJ	1 U	10 UJ	--	10 UJ
2-Butanone	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U
Bromochloromethane	1 U	--	1 U	--	1 U	--	1 U	--
1.1.1-trichloroethane	1 U	10 U	1 U	10 U	1 U	10 U	1 U	10 U
Carbon tetrachloride	1 U	10 U	1 U	10 U	1 U	10 U	1 U	10 U
Bromodichloromethane	1 U	10 U	1 U	10 U	1 U	10 U	1 U	10 U
1.2-Dichloropropane	1 U	10 U	1 U	10 U	1 U	10 U	1 U	10 U
cis-1.3-dichloropropene	1 U	10 U	1 U	10 U	1 U	10 U	1 U	10 U
Trichloroethene	1 U	10 U	1 U	10 U	1 U	10 U	1 U	10 U
Dibromochloromethane	1 U	10 U	1 U	10 U	1 U	10 U	1 U	10 U
1.1.2-Trichloroethane	1 U	10 U	1 U	10 U	1 U	10 U	1 U	10 U
Benzene	0.2 J	10 U	**1**	**2 J**	**1 U**	**2 J**	1 U	10 U
trans-1.3-Dichloropropene	1 U	10 U	1 U	10 U	1 U	10 U	1 U	10 U
Bromoform	1 U	10 U	1 U	10 U	1 U	10 U	1 U	10 U
4-Methyl-2-pentanone	5 U	10 U	5 U	10 U	5 U	10 U	4 J	4 J
2-Hexanone	5 U	10 U	5 U	10 U	5 U	10 U	2 J	10 U
Tetrachloroethene	1 U	10 U	1 U	10 U	1 U	10 U	1 U	10 U
1.1.2.2-Tetrachloroethane	1 U	10 U	1 U	10 U	1 U	10 U	1 U	10 U
1.2-Dibromoethane	1 U	--	1 U	--	1 U	--	1 U	--
Toluene	0.6 J	10 U	1 U	10 U	0.3 J	10 U	1 U	10 U
Chlorobenzene	1 U	10 U	1 U	10 U	1 U	10 U	1 U	10 U
Ethylbenzene	1 U	10 U	1 U	10 U	1 U	10 U	1 U	10 U
Styrene	1 U	10 U	1 U	10 U	1 U	10 U	1 U	10 U
Xylene (total)	1 U	10 U	1 U	10 U	1 U	10 U	1 U	10 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	--	1 U	--	1 U	--
VOA TICs	0	0	1	0	0	0	2	6

Table 5 (Continued)
June 1997 Upper and Lower Aquife.
Monitoring Well Sample Data Comparison
American Chemical Services, Inc.

Compound/Analyte	Sample Location/Concentration (µg/l)							
	MW18 (Upper Aquifer)		MW46 (Upper Aquifer)		MW50 (Lower Aquifer)		MW51 (Lower Aquifer)	
	EBZA2 USEPA	PRP	EBZA7 USEPA	PRP	EBZA8 USEPA	PRP	EBZA4RE USEPA	PRP
Semivolatile Organic Compounds								
Phenol	6 U	10 U		10 U	23	18	**12**	**25 J**
bis(2-Chloroethyl)ether	5 U	10 U		4 J	5 U	10 U	5 U	10 U
2-Chlorophenol	5 U	10 U		10 U	5 U	10 U	5 U	10 U
1,3-Dichlorobenzene	--	10 U		10 U	--	10 U	--	10 U
1,4-Dichlorobenzene	--	10 U		10 U	--	10 U	--	10 U
1,2-Dichlorobenzene	--	10 U		10 U	--	10 U	--	10 U
2-Methylphenol	5 U	10 U		10 U	5 U	10 U	5 U	10 U
2,2'-oxybis-(1-Chloropropane)	5 U	10 U		10 U	5 U	10 U	5 U	10 U
4-Methylphenol	5 U	10 U		10 U	5 U	10 U	5 U	10 U
N-Nitroso-di-n-propylamine	5 U	10 U		10 U	5 U	10 U	5 U	10 U
Hexachloroethane	5 U	10 UJ		10 U	5 U	10 U	5 U	10 UJ
Nitrobenzene	5 U	10 U		10 U	5 U	10 U	5 U	10 U
Isophorone	5 U	10 U		10 U	5 U	10 U	5 U	10 U
2-Nitrophenol	5 U	10 U		10 U	5 U	10 U	5 U	10 U
2,4-Dimethylphenol	5 U	10 U		10 U	5 U	10 U	5 U	10 U
bis(2-Chloroethoxy)methane	5 U	10 U		10 U	5 U	10 U	5 U	10 U
2,4-Dichlorophenol	5 U	10 U		10 U	5 U	10 U	5 U	10 U
1,2,4-Trichlorobenzene	--	10 U		10 U	--	10 U	--	10 U
Naphthalene	5 U	10 U		10 U	5 U	10 U	5 U	10 U
4-Chloroaniline	5 U	10 U		10 U	5 U	10 U	5 U	10 U
Hexachlorobutadiene	5 U	10 UJ		10 U	5 U	10 U	5 U	10 UJ
4-Chloro-3-methylphenol	5 U	10 U		10 U	5 U	10 U	5 U	10 U
2-Methylnaphthalene	5 U	10 U		10 U	5 U	10 U	5 U	10 U
Hexachlorocyclopentadiene	5 U	10 U		10 U	5 U	10 U	5 U	10 U
2,4,6-Trichlorophenol	5 U	10 U		10 U	5 U	10 U	5 U	10 U
2,4,5-Trichlorophenol	20 U	25 U		25 U	20 U	25 U	20 U	25 U
2-Chloronaphthalene	5 U	10 U		10 U	5 U	10 U	5 U	10 U
2-Nitroaniline	20 U	25 U		25 U	20 U	25 U	20 U	25 U
Dimethylphthalate	5 U	10 U		10 U	5 U	10 U	5 U	10 U
Acenaphthylene	5 U	10 U		10 U	5 U	10 U	5 U	10 U
2,6-Dinitrotoluene	5 U	10 U		10 U	5 U	10 U	5 U	10 U
3-Nitroaniline	20 U	25 U		25 U	20 U	25 U	20 U	25 U
Acenaphthene	5 U	10 U		10 U	5 U	10 U	5 U	10 U
2,4-Dinitrophenol	20 U	25 U		25 U	20 U	25 U	20 U	25 U
4-Nitrophenol	20 U	25 UJ		25 U	20 U	25 U	20 U	25 UJ
Dibenzofuran	5 U	10 U		10 U	5 U	10 U	5 U	10 U
2,4-Dinitrotoluene	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U
Diethylphthalate	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U
4-Chlorophenyl-phenylether	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U
Fluorene	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U
4-Nitroaniline	20 U	25 U	20 U	25 U	20 U	25 U	20 U	25 U
4,6-Dinitro-2-methylphenol	20 U	25 U	20 U	25 U	20 U	25 U	20 U	25 U
N-Nitrosodiphenylamine	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U
4-Bromophenyl-phenylether	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U
Hexachlorobenzene	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U

Table 5 (Continued)
June 1997 Upper and Lower Aquifer
Monitoring Well Sample Data Comparison
American Chemical Services, Inc.

Compound/Analyte	Sample Location/Concentration (µg/l)							
	MW18 (Upper Aquifer)		MW46 (Upper Aquifer)		MW50 (Lower Aquifer)		MW51 (Lower Aquifer)	
	EBZA2 USEPA	PRP	EBZA7 USEPA	PRP	EBZA8 USEPA	PRP	EBZA4RE USEPA	PRP
Pentachlorophenol	20 U	25 U	20 U	25 U	20 U	25 U	20 U	25 U
Phenanthrene	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U
Anthracene	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U
Carbazole	--	10 U	--	10 U	--	10 U	--	10 U
Di-n-butylphthalate	5 U	10 U	5 U	10 U	2 J	10 U	5 U	10 U
Fluoranthene	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U
Pyrene	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U
Butylbenzylphthalate	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U
3,3'-Dichlorobenzidine	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U
Benzo(a)anthracene	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U
Chrysene	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U
bis(2-Ethylhexyl)phthalate	**8**	**15**	**89 E**	**10 U**	**66**	**2 J**	1 J	10 U
Di-n-octylphthalate	5 U	10 U	5 U	10 U	5 U	10 U	5 UJ	10 U
Benzo(b)fluoranthene	5 U	10 U	5 U	10 U	5 U	10 U	5 UJ	10 U
Benzo(k)fluoranthene	5 U	10 U	5 U	10 U	5 U	10 U	5 UJ	10 U
Benzo(a)pyrene	5 U	10 U	5 U	10 U	5 U	10 U	5 UJ	10 U
Indeno(1,2,3-cd)pyrene	5 U	10 U	5 U	10 U	5 U	10 U	5 UJ	10 U
Dibenzo(a,h)anthracene	5 U	10 U	5 U	10 U	5 U	10 U	5 UJ	10 U
Benzo(g,h,i)perylene	5 U	10 U	5 U	10 U	5 U	10 U	5 UJ	10 U
SVOA TICs		0	0	3	2	9	11	19
Pesticides								
Alpha-BHC	0.010 U	0.050 U	0.010 U	0.050 U	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	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	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	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	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	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	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	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	0.020 U	0.10 U	0.020 U	0.10 U
p,p'-DDE	0.020 U	0.10 UJ	0.020 U	0.10 U	0.020 U	0.10 U	0.020 U	0.10 UJ
Endrin	0.020 U	0.10 UJ	0.020 U	0.10 U	0.020 U	0.10 U	0.020 U	0.10 UJ
Endosulfan II	0.020 U	0.10 U	0.020 U	0.10 U	0.020 U	0.10 U	0.020 U	0.10 U
p,p'-DDD	0.020 U	0.10 UJ	0.020 U	0.10 U	0.020 U	0.10 U	0.020 U	0.10 UJ
Endosulfan Sulfate	0.020 U	0.10 U	0.020 U	0.10 U	0.020 U	0.10 U	0.020 U	0.10 U
p,p'-DDT	0.020 U	0.10 UJ	0.020 U	0.10 U	0.013 J	0.10 U	0.020 U	0.10 UJ
Methoxychlor	0.10 U	0.50 U	0.10 U	0.50 U	0.10 U	0.50 U	0.10 U	0.50 U
Endrin Ketone	0.020 U	0.10 UJ	0.020 U	0.10 U	0.020 U	0.10 U	0.020 U	0.10 UJ
Endrin Aldehyde	0.020 U	0.10 UJ	0.020 U	0.10 U	0.020 U	0.10 U	0.020 U	0.10 UJ
Alpha-chlordane	0.010 U	0.050 U	0.010 U	0.050 U	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	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	1.0 U	5.0 U	1.0 U	5.0 U

Table 5 (Continued)
June 1997 Upper and Lower Aquifer
Monitoring Well Sample Data Comparison
American Chemical Services, Inc.

Compound/Analyte	Sample Location/Concentration (µg/l)							
	MW18 (Upper Aquifer)		MW46 (Upper Aquifer)		MW50 (Lower Aquifer)		MW51 (Lower Aquifer)	
	EBZA2 USEPA	PRP	EBZA7 USEPA	PRP	EBZA8 USEPA	PRP	EBZA4RE USEPA	PRP
PCBs								
Aroclor 1016	0.20 U	1.0 U	0.20 U	1.0 U	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	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	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	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	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	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	0.20 U	1.0 U	0.20 U	1.0 U
Inorganic Analytes								
Aluminum	80 U	55.8 B	**248**	**544**	**1,710**	**2,780**	**196**	**362**
Antimony	1 U	2.0 U	1 U	2.0 U	1 U	2.0 U	1 U	2.0 U
Arsenic	0.5 U	2.0 U	3	3.7 B	0.9	2.0 U	1	2.0 U
Barium	24.7	24.8 BE	116	110 B	240	232	373	386 E
Beryllium	1 U	1.0 U	1 U	1.0 U	1 U	1.1 B	1 U	1.0 U
Cadmium	0.2 U	1.0 U	0.2 U	1.0 U	0.2 U	1.0 U	0.2 U	1.0 U
Calcium	69,200	63,700 E	119,000	112,000 E	140,000	131,000 E	133,000	137,000 E
Chromium	10 U	5.8 B	10 U	4.1 B	10 U	6.6 B	10 U	4.6 B
Cobalt	6 U	1.0 U	6 U	2.0 B	6 U	2.9 B	6 U	1.2 B
Copper	6 U	6.7 B	6 U	4.9 B	**6 U**	**9.1 B**	6 U	4.4 B
Iron	80 U	54.2 BE	22,600	21,000	5,330	5,460	6,570	6,590 E
Lead	**2 U**	**6.3**	**2 U**	**3.0**	**2 U**	**4.3**	3 U	2.1 B
Magnesium	21,200	19,600 E	30,600	29,700	66,600	63,300	58,900	61,800 E
Manganese	18.6	24.4 E	1,450	1,390	110	112	83.2	89.4 E
Mercury	0.2 U	0.20 U	0.2 U	0.20 U	0.2 U	0.20 U	0.2 U	0.20 U
Nickel	20 U	2.4 B	20 U	4.7 B	20 U	9.1 B	20 U	5.9 B
Potassium	5,000 U	2,720 BE	5,000 U	1,300 B	**9,620**	**17,000**	5,000 U	3,710 BE
Selenium	3	3.2 B	1 U	2.0 U	2 U	2.0 U	0.5 U	2.0 U
Silver	6 U	1.0 U	6 U	1.0 U	6 U	1.0 U	6 U	1.0 U
Sodium	75,500	67,700 E	60,000	58,600	298,000	280,000	98,500	103,000 E
Thallium	2 U	2.0 U	2 U	2.0 U	2 U	2.0 U	2 U	2.0 U
Vanadium	5 U	1.0 U	5 U	2.8 B	5 U	4.6 B	5 U	1.0 U
Zinc	**40 U**	**67.3**	40 U	16.0 B	40 U	16.9 B	40 U	11.9 B
Cyanide	8 U	10.0 U	8 U	10.0 U	8 U	10.0 U	8 U	10.0 U

Table 5 (Continued)
June 1997 Upper and Lower Aquifer
Monitoring Well Sample Data Comparison
American Chemical Services, Inc.

Compound/Analyte	Sample Location/Concentration (µg/l)					
	MW11 (Upper Aquifer)		MW37 (Upper Aquifer)		MW8 (Lower Aquifer)	
	EBZB3 USEPA	PRP	EBZB7 USEPA	PRP	EBYZ7 USEPA	PRP
Volatile Organic Compounds						
Chloromethane	0.3 J	10 U	1 U	10 U	1 J	10 U
Bromomethane	1 U	10 U	1 U	10 U	1 U	10 U
Vinyl chloride	1 U	10 U	1 U	10 U	1 U	10 U
Chloroethane	1 U	10 UJ	1 U	10 UJ	1 U	10 UJ
Methylene chloride	2 U	10 U	2 JBU	10 U	2 JBU	10 U
Acetone	5 U	10 U	5 JBU	10 U	**5 JBU**	**8 J**
Carbon disulfide	1 U	10 U	1 U	10 U	1 U	10 U
1,1-Dichloroethene	1 U	10 U	1 U	10 U	1 U	10 U
1,1-Dichloroethane	1 U	10 U	1 U	10 U	1 U	10 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)	--	10 U	--	10 U	--	10 U
Chloroform	1 U	10 U	1 U	10 U	1 U	10 U
1,2-Dichloroethane	0.4 J	10 UJ	1 U	10 UJ	1 U	10 UJ
2-Butanone	5 U	10 U	5 U	10 U	5 U	10 U
Bromochloromethane	1 U	--	1 U	--	1 U	--
1,1,1-trichloroethane	1 U	10 U	1 U	10 U	1 U	10 U
Carbon tetrachloride	1 U	10 U	1 U	10 U	1 U	10 U
Bromodichloromethane	1 U	10 U	1 U	10 U	1 U	10 U
1,2-Dichloropropane	1 U	10 U	1 U	10 U	1 U	10 U
cis-1,3-dichloropropene	1 U	10 U	1 U	10 U	1 U	10 U
Trichloroethene	1 U	10 U	1 U	10 U	1 U	10 U
Dibromochloromethane	1 U	10 U	1 U	10 U	1 U	10 U
1,1,2-Trichloroethane	1 U	10 U	1 U	10 U	1 U	10 U
Benzene	1 U	10 U	1 U	10 U	1 U	10 U
trans-1,3-Dichloropropene	1 U	10 U	1 U	10 U	1 U	10 U
Bromoform	1 U	10 U	1 U	10 U	1 U	10 U
4-Methyl-2-pentanone	5 U	10 U	5 U	10 U	5 U	10 U
2-Hexanone	5 U	10 U	5 U	10 U	5 U	10 U
Tetrachloroethene	1 U	1 J	1 U	10 U	1 U	10 U
1,1,2,2-Tetrachloroethane	1 U	10 U	1 U	10 U	1 U	10 U
1,2-Dibromoethane	1 U	--	1 U	--	1 U	--
Toluene	0.4 J	10 U	0.7 J	10 U	0.7 J	10 U
Chlorobenzene	1 U	10 U	1 U	10 U	1 U	10 U
Ethylbenzene	1 U	10 U	1 U	10 U	1 U	10 U
Styrene	1 U	10 U	1 U	10 U	1 U	10 U
Xylene (total)	1 U	10 U	1 U	10 U	1 U	10 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	--	1 U	--
VOA TICs	0	0	0	2	0	0

Table 5 (Continued)
June 1997 Upper and Lower Aquifer
Monitoring Well Sample Data Comparison
American Chemical Services, Inc.

Compound/Analyte	Sample Location/Concentration (µg/l)					
	MW11 (Upper Aquifer)		MW37 (Upper Aquifer)		MW8 (Lower Aquifer)	
	EBZB3 USEPA	PRP	EBZB7 USEPA	PRP	EBYZ7 USEPA	PRP
Semivolatile Organic Compounds						
Phenol	5 U	5 J	**14 U**	**23**	5 U	10 U
bis(2-Chloroethyl)ether	5 U	10 U	5 U	10 U	5 U	10 U
2-Chlorophenol	5 U	10 U	5 U	10 U	5 U	10 U
1,3-Dichlorobenzene	--	10 U	--	10 U	--	10 U
1,4-Dichlorobenzene	--	10 U	--	10 U	--	10 U
1,2-Dichlorobenzene	--	10 U	--	10 U	--	10 U
2-Methylphenol	5 U	10 U	5 U	10 U	5 U	10 U
2,2'-oxybis-(1-Chloropropane)	5 U	10 U	5 U	10 U	5 U	10 U
4-Methylphenol	5 U	10 U	5 U	10 U	5 U	10 U
N-Nitroso-di-n-propylamine	5 U	10 U	5 U	10 U	5 U	10 U
Hexachloroethane	5 U	10 U	5 U	10 U	5 U	10 U
Nitrobenzene	5 U	10 U	5 U	10 U	5 U	10 U
Isophorone	5 U	10 U	5 U	10 U	5 U	10 U
2-Nitrophenol	5 U	10 U	5 U	10 U	5 U	10 U
2,4-Dimethylphenol	5 U	10 U	5 U	10 U	5 U	10 U
bis(2-Chloroethoxy)methane	5 U	10 U	5 U	10 U	5 U	10 U
2,4-Dichlorophenol	5 U	10 U	5 U	10 U	5 U	10 U
1,2,4-Trichlorobenzene	--	10 U	--	10 U	--	10 U
Naphthalene	5 U	10 U	5 U	10 U	5 U	10 U
4-Chloroaniline	5 U	10 U	5 U	10 U	5 U	10 U
Hexachlorobutadiene	5 U	10 U	5 U	10 U	5 U	10 U
4-Chloro-3-methylphenol	5 U	10 U	5 U	10 U	5 U	10 U
2-Methylnaphthalene	5 U	10 U	5 U	10 U	5 U	10 U
Hexachlorocyclopentadiene	5 U	10 U	5 U	10 U	5 U	10 U
2,4,6-Trichlorophenol	5 U	10 U	5 U	10 U	5 U	10 U
2,4,5-Trichlorophenol	20 U	25 U	20 U	25 U	20 U	25 U
2-Chloronaphthalene	5 U	10 U	5 U	10 U	5 U	10 U
2-Nitroaniline	20 U	25 U	20 U	25 U	20 U	25 U
Dimethylphthalate	5 U	10 U	5 U	10 U	5 U	10 U
Acenaphthylene	5 U	10 U	5 U	10 U	5 U	10 U
2,6-Dinitrotoluene	5 U	10 U	5 U	10 U	5 U	10 U
3-Nitroaniline	20 U	25 U	20 U	25 U	20 U	25 U
Acenaphthene	5 U	10 U	5 U	10 U	5 U	10 U
2,4-Dinitrophenol	20 U	25 U	20 U	25 U	20 U	25 U
4-Nitrophenol	20 U	25 U	20 U	25 U	20 U	25 U
Dibenzofuran	5 U	10 U	5 U	10 U	5 U	10 U
2,4-Dinitrotoluene	5 U	10 U		10 U		10 U
Diethylphthalate	5 U	10 U		10 U		10 U
4-Chlorophenyl-phenylether	5 U	10 U		10 U		10 U
Fluorene	5 U	10 U		10 U		10 U
4-Nitroaniline	20 U	25 U		25 U		25 U
4,6-Dinitro-2-methylphenol	20 U	25 U		25 U		25 U
N-Nitrosodiphenylamine	5 U	10 U		10 U		10 U
4-Bromophenyl-phenylether	5 U	10 U		10 U		10 U
Hexachlorobenzene	5 U	10 U		10 U		10 U

Table 5 (Continued)
June 1997 Upper and Lower Aquifer
Monitoring Well Sample Data Comparison
American Chemical Services, Inc.

Compound/Analyte	Sample Location/Concentration (µg/l)					
	MW11 (Upper Aquifer)		MW37 (Upper Aquifer)		MW8 (Lower Aquifer)	
	EBZB3 USEPA	PRP	EBZB7 USEPA	PRP	EBYZ7 USEPA	PRP
Pentachlorophenol	20 U	25 U		25 U		25 U
Phenanthrene	5 U	10 U		10 U		10 U
Anthracene	5 U	10 U		10 U		10 U
Carbazole	--	10 U		10 U		10 U
Di-n-butylphthalate	5 U	10 U		10 U		10 U
Fluoranthene	5 U	10 U		10 U		10 U
Pyrene	5 U	10 U		10 U		10 U
Butylbenzylphthalate	5 U	10 U		10 U		10 U
3,3'-Dichlorobenzidine	5 U	10 U		10 U		10 U
Benzo(a)anthracene	5 U	10 U		10 U		10 U
Chrysene	5 U	10 U		10 U		10 U
bis(2-Ethylhexyl)phthalate	5 U	7 J		34		10 U
Di-n-octylphthalate	5 U	10 U		10 U		10 U
Benzo(b)fluoranthene	5 U	10 U		10 U		10 U
Benzo(k)fluoranthene	5 U	10 U		10 U		10 U
Benzo(a)pyrene	5 U	10 U		10 U		10 U
Indeno(1,2,3-cd)pyrene	5 U	10 U		10 U		10 U
Dibenzo(a,h)anthracene	5 U	10 U		10 U		10 U
Benzo(g,h,i)perylene	5 U	10 U		10 U		10 U
SVOA TICs	1	2	0	4	0	2
Pesticides						
Alpha-BHC	0.010 U	0.050 U	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	0.010 U	0.050 U
Delta-BHC	0.010 U	0.050 U	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	0.010 U	0.050 U
Heptachlor	0.010 U	0.050 U	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	0.010 U	0.050 U
Heptachlor Epoxide	0.010 U	0.050 U	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	0.010 U	0.050 U
Dieldrin	0.020 U	0.10 U	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	0.020 U	0.10 U
Endrin	0.020 U	0.10 U	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	0.020 U	0.10 U
p,p'-DDD	0.020 U	0.10 U	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	0.020 U	0.10 U
p,p'-DDT	0.020 U	0.10 U	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	0.10 U	0.50 U
Endrin Ketone	0.020 U	0.10 U	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	0.020 U	0.10 U
Alpha-chlordane	0.010 U	0.050 U	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	0.010 U	0.050 U
Toxaphene	1.0 U	5.0 U	1.0 U	5.0 U	1.0 U	5.0 U

Table 5 (Continued)
June 1997 Upper and Lower Aquifer
Monitoring Well Sample Data Comparison
American Chemical Services, Inc.

Compound/Analyte	Sample Location/Concentration (µg/l)					
	MW11 (Upper Aquifer)		MW37 (Upper Aquifer)		MW8 (Lower Aquifer)	
	EBZB3 USEPA	PRP	EBZB7 USEPA	PRP	EBYZ7 USEPA	PRP
PCBs						
Aroclor 1016	0.20 U	1.0 U	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	0.40 U	2.0 U
Aroclor 1232	0.20 U	1.0 U	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	0.20 U	1.0 U
Aroclor 1248	0.20 U	1.0 U	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	0.20 U	1.0 U
Aroclor 1260	0.20 U	1.0 U	0.20 U	1.0 U	0.20 U	1.0 U
Inorganic Analytes						
Aluminum	627	633	**449**	**664**	80 U	97.0 B
Antimony	1 U	2.0 U	1 U	2.0 U	1 U	2.0 U
Arsenic	0.5	2.0 U	0.8	2.0 U	5	5.1 B
Barium	17.9	17.0 B	20.7	22.5 B	121	126 B
Beryllium	1 U	1.0 U	1 U	1.0 U	1 U	1.0 U
Cadmium	0.2 U	1.0 U	0.3	1.0 U	0.2 U	1.0 U
Calcium	38,700	33,400 E	26,600	27,400 E	53,800	53,000 E
Chromium	**12.2**	**5.0 B**	10 U	3.8 B	10 U	3.4 B
Cobalt	6 U	2.1 B	6 U	5.1 B	6 U	1.0 U
Copper	6.1	7.9 B	6 U	6.9 B	6 U	1.5 B
Iron	**3,660**	**2,280**	2,160	2,140	2,080	3,080
Lead	**2 U**	**5.3**	**2 U**	**3.9**	**2 U**	**2.7 B**
Magnesium	15,300	13,400	9,600	9,490	17,000	17,100
Manganese	**173**	**128**	146	154	**127**	**173**
Mercury	0.2 U	0.20 U	0.2 U	0.20 U	0.2 U	0.20 U
Nickel	20 U	7.5 B	20 U	9.3 B	20 U	2.5 B
Potassium	5,000 U	1,590 B	5,000 U	1,050 B	5,000 U	1,260 B
Selenium	0.5 U	2.0 U	0.5 U	2.0 U	0.5 U	2.0 U
Silver	6 U	1.0 U	6 U	1.0 U	6 U	1.0 U
Sodium	4,350	4,410 B	5,400	5,620	12,600	12,800
Thallium	2 U	2.0 U	2 U	2.0 U	2 U	2.0 U
Vanadium	5 U	4.0 B	5 U	1.6 B	5 U	1.0 U
Zinc	40 U	23.1	40 U	17.5 B	40 U	8.0 B
Cyanide	8 U	10.0 U	8 U	10.0 U	8 U	10.0 U

Appendix A

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 5 CENTRAL REGIONAL LABORATORY

536 SOUTH CLARK STREET

CHICAGO, ILLINOIS 60605

Date: JUL 21 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 970298
for analyses for Antimony, Arsenic, Cadmium, Lead, Mercury, Selenium and Thallium
Results are reported for sample designations: 97ZB05S01, 97ZB05S02, 97ZB05D02, 97ZB05S03, 97ZB05S04, 97ZB05S05, 97ZB05S06, 97ZB05S07, 97ZB05D07, 97ZB05S08, 97ZB05S09, 97ZB05S10, 97ZB05S11, 97ZB05S12, 97ZB05S13, 97ZB05S14, 97ZB05S15, 97ZB05S16, 97ZB05S17, 97ZB05R01 and 97ZB05R02

Results Status:
(x) Acceptable for Use
( ) Data Qualified, but Acceptable for use
( ) Data Unacceptable for Use

Comments on Data Quality by Reviewer

It is possible that some low level lead near the detection limit of 2 µg Pb/L represent trace contamination. No laboratory blanks showed this contamination, but when the positive result for field blank 97ZB05R01 was checked by analysis of an undigested aliquot, a value below detection was obtained. A number of other samples with results just above detection were checked, and results between 1 to 2 µg Pb/L lower were obtained. A number of the samples contained particulate matter, so this check of undigested samples is of limited utility. If lead results in the realm of 2-6 µg/L are important to the study, reanalysis can be requested.

Comments by Laboratory Director or Quality Control Coordinator

Review Record for American Chemical Services Code:J7

21 July 97

Peer/Task Monitor Review and Date (✓) Reviewed ( ) Unreviewed

21 July 97

Team Leader and Date ( ) Reviewed ( ) Unreviewed

Chuck Elly 7/21/97

QC Coordinator and Date ( ) Reviewed (✓) Unreviewed
(position vacant)

Sylvia Griffin JUL 21 1997

Data Management Coordinator and Date Received

Date Transmitted JUL 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: GFAA Metals
Date Generated: July 16, 1997
Auther: Bai Yuen

Site Name: American Chemical Services/PE
Charge Number(s): ESE51087/ESE51088
TDF Number: 5104-108/5104-109
WAD Number: 05-97-1-04

GFAA NARRATIVE for Data Sets 970298 and 970131

Twenty-one water samples, 97ZB05S01-S17, D02, D07, R01 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 on 06/24/97 to 06/26/97 and were received properly preserved by the CRL on 06/25/97 and 06/27/97. All samples were part of data set 970298.

All samples were digested following standard CRL GFAA digestion protocols. The samples were digested on 06/27/97. All analyses were performed within the six month holding time.

A June (May) Performance Evaluation Sample, 97OI16S01, was digested and analyzed with this set of samples. The data set number for the PE sample is 970131.

Analytical results were stored in .DAT files CDBY630.DAT, PBBY702.DAT, TLBY701.DAT, TLBY701A.DAT and database files ASSE070997 and ASSE071097.

Arsenic

Data Files ASSE070997 and ASSE071097

Arsenic was analyzed without incident.

All QC was within the specified control limits.

Cadmium

Data File CDBY630.DAT

Cadmium was analyzed without incident.

All QC was within the specified control limits.

Lead

Data File PBBY702.DAT

Lead was analyzed without incident.

All QC was within the specified control limits.

Narrative by: GS for Bai Yuen ESAT
Date: 7-15-97

Thallium

Data Files TLBY701.DAT and TLBY701A.DAT

The matrix spike recovery (122%) on sample 97ZB05S05 was outside the control limits (85-115%). All samples results are less than the IDL and are acceptable.

All other QC was within the specified control limits.

Selenium

Data Files ASSE070997 and ASSE071097

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: B. Yun ESAT
Date: 7-15-97

Method Number: 3114B
Date Generated: 07-07-97
TDF Numbers: 5104-108,109

SiteNames: AMER. CHEM.SERVICE&PE (JUNE)
Charge Numbers: ESE-51-087,088
Work Assignment Number: 05-97-1-04

FIAS NARRATIVE for Data Sets 970298 and 970131

21 water samples from data set 970298 (97ZB05S01- S17, D02, D07, R01 and R02) and one PE sample from data set 970131 (97OI16S01) were submitted for the analysis of total antimony by hydride AA. The samples were collected on 06/24-26/97.

All samples, QC checks and standards were digested following standard CRL FIAS digestion protocols for waters on 06-27-97 and analyzed on 06-30-97. The data for samples from data sets 970298 and 970131 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 970298 and 970131 were stored in .DAT file SBLL0630.DAT.

Narrative by: L. Feonce ESAT
Date: 7/7/97

Data Set: 970298	**Site Name:** AMERICAN CHEM.SERVICE
Date Generated: 07-07-97	**WA Number:** 05-97-1-04
Author: Larisa Leonova	**Charge Number:** ESE-51-087
Method Number: 3114*B	**TDF Number:** 5104-108

Hg NARRATIVE for Data Set 970298

21 water samples (97ZB05S01-S17,D02,D07,R01 and R02) were submitted for the analysis of total mercury by cold vapor FIAS AA. The samples were collected on 06/24-26/97 and were received by the CRL properly preserved on 06/25-27/97. All samples were part of the data set 970298.

All samples and standards were digested following standard CRL cold vapor FIAS AA digestion protocols for waters on 07/01/97. The holding time for Hg is 28 days. All samples were analyzed on 07/02/97, within the 28 day hold time for mercury.

A spiked blank, used as a laboratory control sample (LCS), was digested and analyzed with the set of samples. Analytical results were stored in .DAT file HGLL0702.DAT.

The calibration curve correlation coefficient, QC check samples and method blanks were within the methods control limits. All sample results were acceptable.

L. Leonova
7/16/97

SAMPLE RESULTS (UG/L) FOR DATA SET 970298

	Sample # 97ZB05	As	Sb	Cd	Pb	Se	Tl
MW46	S01	3	1U	0.2U	2U	1U	2U
MW50	S02	0.9	1U	0.2U	2U	2U	2U
	D02	1	1U	0.2U	3 U	2U	2U
MW11	S03	0.5	1U	0.2U	4 U	0.5U	2U
MW28	S04	1	1U	0.2U	4 U	0.5U	2U
MW23	S05	0.5	1U	0.2U	2U	0.5U	2U
MW8	S06	5	1U	0.2U	2 U	0.5U	2U
MW15	S07	42	1U	0.2U	2U	2U	2U
	D07	39	1U	0.2U	2U	2U	2U
MW37	S08	0.8	1U	0.3	5 U	0.5U	2U
38	S09	1	1U	0.2U	2U	0.5U	2U
MW18	S10	0.5U	1U	0.2U	2U	3	2U
MW51	S11	1	1U	0.2U	3 U	0.5U	2U
M1S	S12	0.5	1U	0.2U	2U	2U	2U
M3S	S13	8	1U	0.2U	2U	1U	2U
M4D	S14	0.5U	1U	0.2U	2 U	0.5U	2U
M2S	S15	3	1U	0.2U	2U	1U	2U
M4S	S16	6	2	0.2U	2 U	2U	2U
MW10C	S17	3	1U	0.2	8 U	1U	2U
	R01	0.5U	1U	0.2U	2	0.5U	2U
	R02	0.5U	1U	0.2U	2U	0.5U	2U
	ANALYST DATE	B. Lynn 7-16-97	Z. [illegible] 7-16-97	B. Lynn 7-16-97	B. Lynn 7-16-97	B. Lynn 7-16-97	B. Lynn 7-16-97

JWS
21 July 97

FINAL SAMPLE REPORT FOR Hg
DATA SET 970298
AMERICAN CHEM. SERVICE
(ug/L)

	SAMPLE	DATE	ANALYST	Hg RESULT REPORTED
MW46	97ZB05S01	07/02/97	L. Li	0.2 U
MW50	97ZB05S02	07/02/97	L. Li	0.2 U
	97ZB05D02	07/02/97	L. Li	0.2 U
MW11	97ZB05S03	07/02/97	L. Li	0.2 U
MW28	97ZB05S04	07/02/97	L. Li	0.2 U
MW23	97ZB05S05	07/02/97	L. Li	0.2 U
MW8	97ZB05S06	07/02/97	L. Li	0.2 U
MW15	97ZB05S07	07/02/97	L. Li	0.2 U
	97ZB05D07	07/02/97	L. Li	0.2 U
MW37	97ZB05S08	07/02/97	L. Li	0.2 U
MW38	97ZB05S09	07/02/97	L. Li	0.2 U
MW18	97ZB05S10	07/02/97	L. Li	0.2 U
MW51	97ZB05S11	07/02/97	L. Li	0.2 U
M1S	97ZB05S12	07/02/97	L. Li	0.2 U
M3S	97ZB05S13	07/02/97	L. Li	0.2 U
M4D	97ZB05S14	07/02/97	L. Li	0.2 U
M2S	97ZB05S15	07/02/97	L. Li	0.2 U
M4S	97ZB05S16	07/02/97	L. Li	0.2 U
MW10C	97ZB05S17	07/02/97	L. Li	0.2 U
	97ZB05R01	07/02/97	L. Li	0.2 U
	97ZB05R02	07/02/97	L. Li	0.2 U

JW
21 July 97

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 5 CENTRAL REGIONAL LABORATORY

536 SOUTH CLARK STREET

CHICAGO, ILLINOIS 60605

Date: SEP 24 1997

Subject: Review of Region 5 Data for **AMERICAN CHEMICAL SERVICES**

From: Charles T. Elly, Director Chi Yang for
Region 5 Central Regional Laboratory

To: B&V

Attached are the results for **AMERICAN CHEMICAL SERVICES**
CRL request number **970298**
for analyses for **Cyanide**
Results are reported for sample designations: 97ZB05S01, 97ZB05S02, 97ZB05D02, 97ZB05S03, 97ZB05S04, 97ZB05S05, 97ZB05S06, 97ZB05D07, 97ZB05S08, 97ZB05S09, 97ZB05S10, 97ZB05S11, 97ZB05S12, 97ZB05S13, 97ZB05S14, 97ZB05S15, 97ZB05S16, 97ZB05S17, 97ZB05R01, and 97ZB05R02.

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 with the exception of sample 97ZB05S07 were assayed and the results are attached. This sample was inadvertently acidified during verification of preservation for metals analysis when the analyst observation indicated that it was not acidic. All other 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 9/22/97
Review and Date (X) Reviewed ( ) Unreviewed

23 Sep 97
Team Leader and Date (X) Reviewed ( ) Unreviewed

QC Coordinator and Date ( ) Reviewed ( ) Unreviewed

Data Management Coordinator and Date Received

Date Transmitted

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:

Method: 335.2NS
Site: American Chem. Svc. / May PE
Date: July 15, 1997

TDF: 5104-108/ 5104-109
PWO: ESE51087/ ESE 51088
WAD: 05-97-1-04

NARRATIVE

21 water samples were collected from American Chem. Services (data set 970298) between June 24 and 26, 1997. The samples were received by CRL between June 25 and 27, 1997. All samples are routinely checked for pH to determine whether they were properly preserved in the field. Sample aliquots for metals are also checked for the same reason. Samples 97ZB05S07 and 97ZB05D07 were improperly tagged. The cyanide aliquot of 97ZB05S07 was inadvertently acidified by the metals analyst in the belief that this was actually the metals aliquot (and that the sample had been improperly preserved). The error was discovered, and, it was decided not to analyze this sample for cyanide..

The May reswell performance evaluation (PE) sample (data set 970131) was prepared by diluting 1 ml of the concentrate to 100 ml using a 0.01 N sodium hydroxide solution.

All samples were analyzed within the 14-day holding time limit.

The PE sample and the remaining 20 samples from 970298 were distilled over two days using CRL merthods with one deviation. All matrix spikes and distilled AQC samples were spiked at a level of 40 ug/l CN instead of the 100 ug/l level required by the method. The distillates were analyzed using a Lachat QuickChem AE analyzer. In evaluating the usability of the data, the method acceptance limits were used on a percentage basis (e.g. 100 $\pm$ 15 ug/l became 100 $\pm$ 15%, or 40 $\pm$ 6 ug/l).

All QC audits were in control; all data are acceptable.

J. Gary
9-22-97

AMERICAN CHEMICAL SERVICES (970298)

CYANIDE RESULTS (UG/L) FOR DATA SETS 970298, ~~970131~~ cg

Sample #	Analysis Date	Concentration	Analyst	Date
97ZB05S01	7-7-97	8U	J. Gary	7-15-97
97ZB05S02	7-7-97	8U	J. Gary	7-15-97
97ZB05D02	7-7-97	8U	J. Gary	7-15-97
97ZB05S03	7-7-97	8U	J. Gary	7-15-97
97ZB05S04	7-7-97	8U	J. Gary	7-15-97
97ZB05S05	7-7-97	8U	J. Gary	7-15-97
97ZB05S06	7-7-97	8U	J. Gary	7-15-97
97ZB05D07	7-7-97	8U	J. Gary	7-15-97
97ZB05S08	7-7-97	8U	J. Gary	7-15-97
97ZB05S09	7-7-97	8U	J. Gary	7-15-97
97ZB05S10	7-7-97	8U	J. Gary	7-15-97
97ZB05S11	7-7-97	8U	J. Gary	7-15-97
97ZB05S12	7-7-97	8U	J. Gary	7-15-97
97ZB05S13	7-7-97	8U	J. Gary	7-15-97
97ZB05S14	7-7-97	8U	J. Gary	7-15-97
97ZB05S15	7-7-97	8U	J. Gary	7-15-97
97ZB05S16	7-7-97	8U	J. Gary	7-15-97
97ZB05S17	7-7-97	8U	J. Gary	7-15-97
97ZB05R01	7-7-97	8U	J. Gary	7-15-97
97ZB05R02	7-7-97	8U	J. Gary	7-15-97
~~97OH16S01~~	~~7-7-97~~	~~8U~~	~~J. Gary~~	~~7-15-97~~

D. Medin 7-25-97

FAA 9/22/97

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 5 CENTRAL REGIONAL LABORATORY

536 SOUTH CLARK STREET

CHICAGO, ILLINOIS 60605

Date: JUL 21 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: Black & Veatch

Attached are the results for American Chemical Services Code:J7
CRL request number 970298
for analyses for ICP
Results are reported for sample designations: 97ZB05S01, 97ZB05S02, 97ZB05D02, 97ZB05S03, 97ZB05S04, 97ZB05S05, 97ZB05S06, 97ZB05S07, 97ZB05D07, 97ZB05S08, 97ZB05S09, 97ZB05S10, 97ZB05S11, 97ZB05S12, 97ZB05S13, 97ZB05S14, 97ZB05S15, 97ZB05S16, 97ZB05S17, 97ZB05R01 and 97ZB05R02

Results Status:
(x) Acceptable for Use
( ) Data Qualified, but Acceptable for use
( ) Data Unacceptable for Use

Comments on Data Quality by Reviewer

Only two matrix spikes were used for this batch, even though CRL SOPs ask for 1 per 10 samples. A third matrix spike had been prepared, but after digestion, it was determined that the digestion acids were omitted from that spike. After determining that the samples were unaffected, repreparation was deemed unnecessary.

Comments by Laboratory Director or Quality Control Coordinator

Review Record for American Chemical Services Code:J7

John C. Moore 18 July 97

Peer/Task Monitor Review and Date (✓) Reviewed ( ) Unreviewed

John C. Moore 18 July 97

Team Leader and Date (✓) Reviewed ( ) Unreviewed

Chuck E Ebz 7/18/97

QC Coordinator and Date ( ) Reviewed (✓) Unreviewed
(position vacant)

Sylvia Griffin JUL 21 1997

Data Management Coordinator and Date Received

Date Transmitted JUL 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:

7-9-97

Method Number: _200.7_____ Site Name: American Chemical Services_____

Date Generated: June27, 1997_____ Work Unit Number: 05-97104__

Author: _R.Dilg,Lockheed-ESAT_____ TDF Number: 5104-108_____

Charge Number: ESE-51-087___

ICP NARRATIVE

This narrative covers the analysis of 21 water samples (970298) from the above named site sampled on June 24th, 25th, and 26th for ICP metals analysis.

Data Set	Sample Nos.
970298	97ZB05S01, S02, D02, S03, S04, S05, S06, S07, D07, S08, S09, S10, S11, S12, S13, S14, S15, S16, S17, R01, R02

Routine CRL microwave digestion procedures were used to prepare the samples for ICP analysis. The sample digests were analyzed using the 1160 ICP unit along with analysis run method SED5; the ICP analysis results were stored to RUN768. The sample digests were also analyzed for K using the TJA 61 along with analysis run method K_ONLY; the ICP K analysis results were stored to RUN768K.

RUN 768

The following lists the out-of-control QC audit check results for analysis run 768:

Blanks:	INSTR BLANK 1:	Cr2055	- 10.03 µg/L
	INSTR BLANK 4:	Li6707	10.53 "
		K 7664	-5256.4 "

AQCs:	AQC 1:	Ag3280	7.9%R
		Sn1899	6.1 "
		V 2924	6.0 "
	AQC 1A:	Pb2203	5.1%R
		Ag3280	8.8 "
		Sn1899	5.2 "
		V 2924	6.4 "
	HIGH AQC 1:	K 7664	25.6%R
	HIGH AQC 3:	K 7664	14.2%R
	HIGH AQC 4:	K 7664	21.3%R

LK
7-9-97

RUN 768 (continued)

Matrix Spike: K 7664, 30 %R
(97ZB05S05)

Matrix Spike: K 7664, 48 %R
(97ZB05S10)

As mentioned previously, the K values from the 1160 ICP unit were not used but were reported using TJA 61 values obtained from a separately conducted analysis run (see below).

All As, Cd, and Pb sample results were too low to be reliably reported using ICP values. Refer to GFAA and / or FIAS analyses for reported As, Cd, and Pb sample results.

Li and Sn results are not of concern for this data set.

The ICP instrument was restandardized just prior to the start of the sample analysis run; the applicable mid range QC audit checks (AQC's) preceding this run began with AQC 1B. Similarly, the instrument blank QC checks that apply for this run began with INSTR BLANK 1B. All Ag, Cr, and V sample results are usable.

The matrix spiked sample results for 97ZB05S17 were not used since it appeared that somehow digestion acids were not added to this sample. This was discussed with Dr. J. V. Morris.

Since RLIMS was unavailable at this time, simulated or "RLIMS-like" sample report forms were generated and were edited using Word Perfect so that the sample analysis data could be reported at least via hard copy reports. In addition, no RLIMS entry was performed as of the time of the writing of this case narrative.

RUN 768K

All K sample results are usable. (As was just stated in the previous paragraph the spiked sample result for 97ZB05S17 was not used).

MW10C

EPA CRL - REGION V
FINAL RESULTS REPORT
REPORT PRODUCED ON: 3 JULY 97

SAMPLE OGANIZATION: BLACK & VEATCH
SAMPLE BATCH ID: 970298
SAMPLE REQUESTOR: ROBERT LANGE
ACCOUNT NO: TFA301
LABORATORY: ESAT
SAMPLE FACILITY: AMERICAN CHEMICAL SERVICES

SAMPLE: 97ZB05S17
FIELD: 97ZB05S17

COLLECTED:
RECEIVED: 26,27 JUNE 97
ANALYZED: 1 JULY 97

COMPOUND	AMOUNT	(Units)
Aluminum	3120	(ug/L)
Barium	343	(ug/L)
Beryllium	1 U	(ug/L)
Calcium	128000	(ug/L)
Chromium	38.5	(ug/L)
Cobalt	6.2	(ug/L)
Copper	11.4	(ug/L)
Iron	15200	(ug/L)
Magnesium	59700	(ug/L)
Manganese	235.1	(ug/L)
Nickel	39.7	(ug/L)
Potassium	5000 U	(ug/L)
Silver	6 U	(ug/L)
Sodium	178000	(ug/L)
Vanadium	7.9	(ug/L)
Zinc	54.8	(ug/L)

ANALYZED BY: 7-7-97

18 Jul 97

MW46

EPA CRL - REGION V
FINAL RESULTS REPORT
REPORT PRODUCED ON: 3 JULY 97

SAMPLE OGANIZATION: BLACK & VEATCH
SAMPLE BATCH ID: 970298
SAMPLE REQUESTOR: ROBERT LANGE
ACCOUNT NO: TFA301
LABORATORY: ESAT
SAMPLE FACILITY: AMERICAN CHEMICAL SERVICES

SAMPLE: 97ZB05S01
FIELD: 97ZB05S01

COLLECTED:
RECEIVED: 26,27 JUNE 97
ANALYZED: 1 JULY 97

COMPOUND	AMOUNT	(Units)
Aluminum	248	(ug/L)
Barium	116	(ug/L)
Beryllium	1 U	(ug/L)
Calcium	119000	(ug/L)
Chromium	10 U	(ug/L)
Cobalt	6 U	(ug/L)
Copper	6 U	(ug/L)
Iron	22600	(ug/L)
Magnesium	30600	(ug/L)
Manganese	1450	(ug/L)
Nickel	20 U	(ug/L)
Potassium	5000 U	(ug/L)
Silver	6 U	(ug/L)
Sodium	60000	(ug/L)
Vanadium	5 U	(ug/L)
Zinc	40 U	(ug/L)

ANALYZED BY: 7-7-97

JVM 18 July 97

MW50

EPA CRL - REGION V
FINAL RESULTS REPORT
REPORT PRODUCED ON: 3 JULY 97

SAMPLE OGANIZATION: BLACK & VEATCH
SAMPLE BATCH ID: 970298
SAMPLE REQUESTOR: ROBERT LANGE
ACCOUNT NO: TFA301
LABORATORY: ESAT
SAMPLE FACILITY: AMERICAN CHEMICAL SERVICES

SAMPLE: 97ZB05S02
FIELD: 97ZB05S02

COLLECTED:
RECEIVED: 26,27 JUNE 97
ANALYZED: 1 JULY 97

COMPOUND	AMOUNT	(Units)
Aluminum	1710	(ug/L)
Barium	240	(ug/L)
Beryllium	1 U	(ug/L)
Calcium	140000	(ug/L)
Chromium	10 U	(ug/L)
Cobalt	6 U	(ug/L)
Copper	6 U	(ug/L)
Iron	5330	(ug/L)
Magnesium	66600	(ug/L)
Manganese	110	(ug/L)
Nickel	20 U	(ug/L)
Potassium	9620	(ug/L)
Silver	6 U	(ug/L)
Sodium	298000	(ug/L)
Vanadium	5 U	(ug/L)
Zinc	40 U	(ug/L)

ANALYZED BY: [illegible] 7-7-97

[illegible] 18 July 97

EPA CRL - REGION V
FINAL RESULTS REPORT
REPORT PRODUCED ON: 3 JULY 97

SAMPLE OGANIZATION: BLACK & VEATCH
SAMPLE BATCH ID: 970298
SAMPLE REQUESTOR: ROBERT LANGE
ACCOUNT NO: TFA301
LABORATORY: ESAT
SAMPLE FACILITY: AMERICAN CHEMICAL SERVICES

SAMPLE: 97ZB05D02
FIELD: 97ZB05D02

COLLECTED:
RECEIVED: 26,27 JUNE 97
ANALYZED: 1 JULY 97

COMPOUND	AMOUNT	(Units)
Aluminum	1410	(ug/L)
Barium	240	(ug/L)
Beryllium	1 U	(ug/L)
Calcium	139000	(ug/L)
Chromium	10 U	(ug/L)
Cobalt	6 U	(ug/L)
Copper	6 U	(ug/L)
Iron	4860	(ug/L)
Magnesium	66600	(ug/L)
Manganese	101	(ug/L)
Nickel	20 U	(ug/L)
Potassium	9650	(ug/L)
Silver	6 U	(ug/L)
Sodium	295000	(ug/L)
Vanadium	5 U	(ug/L)
Zinc	40 U	(ug/L)

ANALYZED BY: RS 7-7-97

18 July 97

MW11

EPA CRL - REGION V
FINAL RESULTS REPORT
REPORT PRODUCED ON: 3 JULY 97

SAMPLE OGANIZATION: BLACK & VEATCH
SAMPLE BATCH ID: 970298
SAMPLE REQUESTOR: ROBERT LANGE
ACCOUNT NO: TFA301
LABORATORY: ESAT
SAMPLE FACILITY: AMERICAN CHEMICAL SERVICES

SAMPLE: 97ZB05S03
FIELD: 97ZB05S03

COLLECTED:
RECEIVED: 26,27 JUNE 97
ANALYZED: 1 JULY 97

COMPOUND	AMOUNT	(Units)
Aluminum	627	(ug/L)
Barium	17.9	(ug/L)
Beryllium	1 U	(ug/L)
Calcium	38700	(ug/L)
Chromium	12.2	(ug/L)
Cobalt	6 U	(ug/L)
Copper	6.1	(ug/L)
Iron	3660	(ug/L)
Magnesium	15300	(ug/L)
Manganese	173	(ug/L)
Nickel	20 U	(ug/L)
Potassium	5000 U	(ug/L)
Silver	6 U	(ug/L)
Sodium	4350	(ug/L)
Vanadium	5 U	(ug/L)
Zinc	40 U	(ug/L)

ANALYZED BY: RD 7-7-97

18 July 97

MW28

EPA CRL - REGION V
FINAL RESULTS REPORT
REPORT PRODUCED ON: 3 JULY 97

SAMPLE OGANIZATION: BLACK & VEATCH
SAMPLE BATCH ID: 970298
SAMPLE REQUESTOR: ROBERT LANGE
ACCOUNT NO: TFA301
LABORATORY: ESAT
SAMPLE FACILITY: AMERICAN CHEMICAL SERVICES

SAMPLE: 97ZB05S04
FIELD: 97ZB05S04

COLLECTED:
RECEIVED: 26,27 JUNE 97
ANALYZED: 1 JULY 97

COMPOUND	AMOUNT	(Units)
Aluminum	533	(ug/L)
Barium	112	(ug/L)
Beryllium	1 U	(ug/L)
Calcium	85100	(ug/L)
Chromium	50.3	(ug/L)
Cobalt	6 U	(ug/L)
Copper	11.3	(ug/L)
Iron	3320	(ug/L)
Magnesium	38400	(ug/L)
Manganese	79.5	(ug/L)
Nickel	45.2	(ug/L)
Potassium	5000 U	(ug/L)
Silver	6 U	(ug/L)
Sodium	15000	(ug/L)
Vanadium	5 U	(ug/L)
Zinc	40 U	(ug/L)

ANALYZED BY: 7-7-97

lvm 18 July 97

MW23

EPA CRL - REGION V
FINAL RESULTS REPORT
REPORT PRODUCED ON: 3 JULY 97

SAMPLE OGANIZATION: BLACK & VEATCH
SAMPLE BATCH ID: 970298
SAMPLE REQUESTOR: ROBERT LANGE
ACCOUNT NO: TFA301
LABORATORY: ESAT
SAMPLE FACILITY: AMERICAN CHEMICAL SERVICES

SAMPLE: 97ZB05S05
FIELD: 97ZB05S05

COLLECTED:
RECEIVED: 26,27 JUNE 97
ANALYZED: 1 JULY 97

COMPOUND	AMOUNT	(Units)
Aluminum	149	(ug/L)
Barium	119	(ug/L)
Beryllium	1 U	(ug/L)
Calcium	73800	(ug/L)
Chromium	10 U	(ug/L)
Cobalt	6 U	(ug/L)
Copper	6 U	(ug/L)
Iron	5990	(ug/L)
Magnesium	19100	(ug/L)
Manganese	252	(ug/L)
Nickel	20 U	(ug/L)
Potassium	5000 U	(ug/L)
Silver	6 U	(ug/L)
Sodium	63700	(ug/L)
Vanadium	5 U	(ug/L)
Zinc	40 U	(ug/L)

ANALYZED BY: [illegible] 7-7-97

JVM
18 July 97

MW8

EPA CRL - REGION V
FINAL RESULTS REPORT
REPORT PRODUCED ON: 3 JULY 97

SAMPLE OGANIZATION: BLACK & VEATCH SAMPLE BATCH ID: 970298
SAMPLE REQUESTOR: ROBERT LANGE ACCOUNT NO: TFA301
LABORATORY: ESAT SAMPLE FACILITY: AMERICAN CHEMICAL SERVICES

SAMPLE: 97ZB05S06 FIELD: 97ZB05S06

COLLECTED: RECEIVED: 26,27 JUNE 97 ANALYZED: 1 JULY 97

COMPOUND	AMOUNT	(Units)
Aluminum	80 U	(ug/L)
Barium	121	(ug/L)
Beryllium	1 U	(ug/L)
Calcium	53800	(ug/L)
Chromium	10 U	(ug/L)
Cobalt	6 U	(ug/L)
Copper	6 U	(ug/L)
Iron	2080	(ug/L)
Magnesium	17000	(ug/L)
Manganese	127	(ug/L)
Nickel	20 U	(ug/L)
Potassium	5000 U	(ug/L)
Silver	6 U	(ug/L)
Sodium	12600	(ug/L)
Vanadium	5 U	(ug/L)
Zinc	40 U	(ug/L)

ANALYZED BY: 7-7-97

lvm
18 July 97

MW15

EPA CRL - REGION V
FINAL RESULTS REPORT
REPORT PRODUCED ON: 3 JULY 97

SAMPLE OGANIZATION: BLACK & VEATCH SAMPLE BATCH ID: 970298
SAMPLE REQUESTOR: ROBERT LANGE ACCOUNT NO: TFA301
LABORATORY: ESAT SAMPLE FACILITY: AMERICAN CHEMICAL SERVICES

SAMPLE: 97ZB05S07 FIELD: 97ZB05S07

COLLECTED: RECEIVED: 26,27 JUNE 97 ANALYZED: 1 JULY 97

COMPOUND	AMOUNT	(Units)
Aluminum	106	(ug/L)
Barium	1150	(ug/L)
Beryllium	1 U	(ug/L)
Calcium	74200	(ug/L)
Chromium	10 U	(ug/L)
Cobalt	6 U	(ug/L)
Copper	6 U	(ug/L)
Iron	6140	(ug/L)
Magnesium	73400	(ug/L)
Manganese	186	(ug/L)
Nickel	20 U	(ug/L)
Potassium	86700	(ug/L)
Silver	6 U	(ug/L)
Sodium	389000	(ug/L)
Vanadium	5 U	(ug/L)
Zinc	40 U	(ug/L)

ANALYZED BY: 7-7-97

18 July 97

EPA CRL - REGION V
FINAL RESULTS REPORT
REPORT PRODUCED ON: 3 JULY 97

SAMPLE OGANIZATION: BLACK & VEATCH SAMPLE BATCH ID: 970298
SAMPLE REQUESTOR: ROBERT LANGE ACCOUNT NO: TFA301
LABORATORY: ESAT SAMPLE FACILITY: AMERICAN CHEMICAL SERVICES

SAMPLE: 97ZB05D07 FIELD: 97ZB05D07

COLLECTED: RECEIVED: 26,27 JUNE 97 ANALYZED: 1 JULY 97

COMPOUND	AMOUNT	(Units)
Aluminum	80 U	(ug/L)
Barium	1130	(ug/L)
Beryllium	1 U	(ug/L)
Calcium	75000	(ug/L)
Chromium	10 U	(ug/L)
Cobalt	6 U	(ug/L)
Copper	6 U	(ug/L)
Iron	5820	(ug/L)
Magnesium	73100	(ug/L)
Manganese	195	(ug/L)
Nickel	20 U	(ug/L)
Potassium	85300	(ug/L)
Silver	6 U	(ug/L)
Sodium	382000	(ug/L)
Vanadium	5 U	(ug/L)
Zinc	40 U	(ug/L)

ANALYZED BY: RD 7-7-97

IVM 18 July 97

MW37

EPA CRL - REGION V
FINAL RESULTS REPORT
REPORT PRODUCED ON: 3 JULY 97

SAMPLE OGANIZATION: BLACK & VEATCH
SAMPLE BATCH ID: 970298
SAMPLE REQUESTOR: ROBERT LANGE
ACCOUNT NO: TFA301
LABORATORY: ESAT
SAMPLE FACILITY: AMERICAN CHEMICAL SERVICES

SAMPLE: 97ZB05S08
FIELD: 97ZB05S08

COLLECTED:
RECEIVED: 26,27 JUNE 97
ANALYZED: 1 JULY 97

COMPOUND	AMOUNT	(Units)
Aluminum	449	(ug/L)
Barium	20.7	(ug/L)
Beryllium	1 U	(ug/L)
Calcium	26600	(ug/L)
Chromium	10 U	(ug/L)
Cobalt	6 U	(ug/L)
Copper	6 U	(ug/L)
Iron	2160	(ug/L)
Magnesium	9600	(ug/L)
Manganese	146	(ug/L)
Nickel	20 U	(ug/L)
Potassium	5000 U	(ug/L)
Silver	6 U	(ug/L)
Sodium	5400	(ug/L)
Vanadium	5 U	(ug/L)
Zinc	40 U	(ug/L)

ANALYZED BY: RD 7-7-97

JVM 18 July 97

MW38

EPA CRL - REGION V
FINAL RESULTS REPORT
REPORT PRODUCED ON: 3 JULY 97

SAMPLE OGANIZATION: BLACK & VEATCH SAMPLE BATCH ID: 970298
SAMPLE REQUESTOR: ROBERT LANGE ACCOUNT NO: TFA301
LABORATORY: ESAT SAMPLE FACILITY: AMERICAN CHEMICAL SERVICES

SAMPLE: 97ZB05S09 FIELD: 97ZB05S09

COLLECTED: RECEIVED: 26,27 JUNE 97 ANALYZED: 1 JULY 97

COMPOUND	AMOUNT	(Units)
Aluminum	80 U	(ug/L)
Barium	35.1	(ug/L)
Beryllium	1 U	(ug/L)
Calcium	60700	(ug/L)
Chromium	10 U	(ug/L)
Cobalt	6 U	(ug/L)
Copper	6 U	(ug/L)
Iron	1780	(ug/L)
Magnesium	20800	(ug/L)
Manganese	1350	(ug/L)
Nickel	26.2	(ug/L)
Potassium	5000 U	(ug/L)
Silver	6 U	(ug/L)
Sodium	5400	(ug/L)
Vanadium	5 U	(ug/L)
Zinc	63.2	(ug/L)

ANALYZED BY: 7-7-97

1st July 97

MW78

EPA CRL - REGION V
FINAL RESULTS REPORT
REPORT PRODUCED ON: 3 JULY 97

SAMPLE OGANIZATION: BLACK & VEATCH
SAMPLE BATCH ID: 970298
SAMPLE REQUESTOR: ROBERT LANGE
ACCOUNT NO: TFA301
LABORATORY: ESAT
SAMPLE FACILITY: AMERICAN CHEMICAL SERVICES

SAMPLE: 97ZB05S10
FIELD: 97ZB05S10

COLLECTED:
RECEIVED: 26,27 JUNE 97
ANALYZED: 1 JULY 97

COMPOUND	AMOUNT	(Units)
Aluminum	80 U	(ug/L)
Barium	24.7	(ug/L)
Beryllium	1 U	(ug/L)
Calcium	69200	(ug/L)
Chromium	10 U	(ug/L)
Cobalt	6 U	(ug/L)
Copper	6 U	(ug/L)
Iron	80 U	(ug/L)
Magnesium	21200	(ug/L)
Manganese	18.6	(ug/L)
Nickel	20 U	(ug/L)
Potassium	5000 U	(ug/L)
Silver	6 U	(ug/L)
Sodium	75500	(ug/L)
Vanadium	5 U	(ug/L)
Zinc	40 U	(ug/L)

ANALYZED BY: 7-7-97

18 July 97

MW51

EPA CRL - REGION V
FINAL RESULTS REPORT
REPORT PRODUCED ON: 3 JULY 97

SAMPLE OGANIZATION: BLACK & VEATCH
SAMPLE BATCH ID: 970298
SAMPLE REQUESTOR: ROBERT LANGE
ACCOUNT NO: TFA301
LABORATORY: ESAT
SAMPLE FACILITY: AMERICAN CHEMICAL SERVICES

SAMPLE: 97ZB05S11
FIELD: 97ZB05S11

COLLECTED:
RECEIVED: 26,27 JUNE 97
ANALYZED: 1 JULY 97

COMPOUND	AMOUNT	(Units)
Aluminum	196	(ug/L)
Barium	373	(ug/L)
Beryllium	1 U	(ug/L)
Calcium	133000	(ug/L)
Chromium	10 U	(ug/L)
Cobalt	6 U	(ug/L)
Copper	6 U	(ug/L)
Iron	6570	(ug/L)
Magnesium	58900	(ug/L)
Manganese	83.2	(ug/L)
Nickel	20 U	(ug/L)
Potassium	5000 U	(ug/L)
Silver	6 U	(ug/L)
Sodium	98500	(ug/L)
Vanadium	5 U	(ug/L)
Zinc	40 U	(ug/L)

ANALYZED BY: 7-7-97

18 July 97

MIS

EPA CRL - REGION V
FINAL RESULTS REPORT
REPORT PRODUCED ON: 3 JULY 97

SAMPLE OGANIZATION: BLACK & VEATCH
SAMPLE BATCH ID: 970298
SAMPLE REQUESTOR: ROBERT LANGE
ACCOUNT NO: TFA301
LABORATORY: ESAT
SAMPLE FACILITY: AMERICAN CHEMICAL SERVICES

SAMPLE: 97ZB05S12
FIELD: 97ZB05S12

COLLECTED:
RECEIVED: 26,27 JUNE 97
ANALYZED: 1 JULY 97

COMPOUND	AMOUNT	(Units)
Aluminum	98.9	(ug/L)
Barium	544	(ug/L)
Beryllium	1 U	(ug/L)
Calcium	228000	(ug/L)
Chromium	10 U	(ug/L)
Cobalt	6 U	(ug/L)
Copper	6 U	(ug/L)
Iron	21200	(ug/L)
Magnesium	76100	(ug/L)
Manganese	588	(ug/L)
Nickel	20 U	(ug/L)
Potassium	38800	(ug/L)
Silver	6 U	(ug/L)
Sodium	63600	(ug/L)
Vanadium	5.5	(ug/L)
Zinc	40 U	(ug/L)

ANALYZED BY: 7-7-97

18 July 97

M3S

EPA CRL - REGION V
FINAL RESULTS REPORT
REPORT PRODUCED ON: 3 JULY 97

SAMPLE OGANIZATION: BLACK & VEATCH
SAMPLE BATCH ID: 970298
SAMPLE REQUESTOR: ROBERT LANGE
ACCOUNT NO: TFA301
LABORATORY: ESAT
SAMPLE FACILITY: AMERICAN CHEMICAL SERVICES

SAMPLE: 97ZB05S13
FIELD: 97ZB05S13

COLLECTED:
RECEIVED: 26,27 JUNE 97
ANALYZED: 1 JULY 97

COMPOUND	AMOUNT	(Units)
Aluminum	80 U	(ug/L)
Barium	116	(ug/L)
Beryllium	1 U	(ug/L)
Calcium	90200	(ug/L)
Chromium	10 U	(ug/L)
Cobalt	6 U	(ug/L)
Copper	6 U	(ug/L)
Iron	3310	(ug/L)
Magnesium	30500	(ug/L)
Manganese	611	(ug/L)
Nickel	20 U	(ug/L)
Potassium	7230	(ug/L)
Silver	6 U	(ug/L)
Sodium	23500	(ug/L)
Vanadium	5 U	(ug/L)
Zinc	40 U	(ug/L)

ANALYZED BY: 7-7-97

18 July 97

M4D

EPA CRL - REGION V
FINAL RESULTS REPORT
REPORT PRODUCED ON: 3 JULY 97

SAMPLE OGANIZATION: BLACK & VEATCH
SAMPLE BATCH ID: 970298
SAMPLE REQUESTOR: ROBERT LANGE
ACCOUNT NO: TFA301
LABORATORY: ESAT
SAMPLE FACILITY: AMERICAN CHEMICAL SERVICES

SAMPLE: 97ZB05S14
FIELD: 97ZB05S14

COLLECTED:
RECEIVED: 26,27 JUNE 97
ANALYZED: 1 JULY 97

COMPOUND	AMOUNT	(Units)
Aluminum	83.6	(ug/L)
Barium	186	(ug/L)
Beryllium	1 U	(ug/L)
Calcium	88700	(ug/L)
Chromium	10 U	(ug/L)
Cobalt	6 U	(ug/L)
Copper	6 U	(ug/L)
Iron	1830	(ug/L)
Magnesium	41400	(ug/L)
Manganese	32.7	(ug/L)
Nickel	20 U	(ug/L)
Potassium	5000 U	(ug/L)
Silver	6 U	(ug/L)
Sodium	74300	(ug/L)
Vanadium	5 U	(ug/L)
Zinc	40 U	(ug/L)

ANALYZED BY: 7-7-97

18 July 97

M25

EPA CRL - REGION V
FINAL RESULTS REPORT
REPORT PRODUCED ON: 3 JULY 97

SAMPLE OGANIZATION: BLACK & VEATCH
SAMPLE BATCH ID: 970298
SAMPLE REQUESTOR: ROBERT LANGE
ACCOUNT NO: TFA301
LABORATORY: ESAT
SAMPLE FACILITY: AMERICAN CHEMICAL SERVICES

SAMPLE: 97ZB05S15
FIELD: 97ZB05S15

COLLECTED:
RECEIVED: 26,27 JUNE 97
ANALYZED: 1 JULY 97

COMPOUND	AMOUNT	(Units)
Aluminum	80 U	(ug/L)
Barium	100	(ug/L)
Beryllium	1 U	(ug/L)
Calcium	133000	(ug/L)
Chromium	10 U	(ug/L)
Cobalt	6 U	(ug/L)
Copper	6 U	(ug/L)
Iron	29500	(ug/L)
Magnesium	36600	(ug/L)
Manganese	1380	(ug/L)
Nickel	20 U	(ug/L)
Potassium	5000 U	(ug/L)
Silver	6 U	(ug/L)
Sodium	16700	(ug/L)
Vanadium	5 U	(ug/L)
Zinc	40 U	(ug/L)

ANALYZED BY: RD 7-7-97

lm 18 July 97

EPA CRL - REGION V
FINAL RESULTS REPORT
REPORT PRODUCED ON: 3 JULY 97

SAMPLE OGANIZATION: BLACK & VEATCH
SAMPLE BATCH ID: 970298
SAMPLE REQUESTOR: ROBERT LANGE
ACCOUNT NO: TFA301
LABORATORY: ESAT
SAMPLE FACILITY: AMERICAN CHEMICAL SERVICES

SAMPLE: 97ZB05R01
FIELD: 97ZB05R01

COLLECTED:
RECEIVED: 26,27 JUNE 97
ANALYZED: 1 JULY 97

COMPOUND	AMOUNT	(Units)
Aluminum	80 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	5000 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: 7-7-97

JVM 18 July 97

EPA CRL - REGION V
FINAL RESULTS REPORT
REPORT PRODUCED ON: 3 JULY 97

SAMPLE OGANIZATION: BLACK & VEATCH
SAMPLE BATCH ID: 970298
SAMPLE REQUESTOR: ROBERT LANGE
ACCOUNT NO: TFA301
LABORATORY: ESAT
SAMPLE FACILITY: AMERICAN CHEMICAL SERVICES

SAMPLE: 97ZB05R02
FIELD: 97ZB05R02

COLLECTED:
RECEIVED: 26,27 JUNE 97
ANALYZED: 1 JULY 97

COMPOUND	AMOUNT	(Units)
Aluminum	80 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	5000 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: 7-7-97

18 July 97

M4S

EPA CRL - REGION V
FINAL RESULTS REPORT
REPORT PRODUCED ON: 3 JULY 97

SAMPLE OGANIZATION: BLACK & VEATCH
SAMPLE BATCH ID: 970298
SAMPLE REQUESTOR: ROBERT LANGE
ACCOUNT NO: TFA301
LABORATORY: ESAT
SAMPLE FACILITY: AMERICAN CHEMICAL SERVICES

SAMPLE: 97ZB05S16
FIELD: 97ZB05S16

COLLECTED:
RECEIVED: 26,27 JUNE 97
ANALYZED: 1 JULY 97

COMPOUND	AMOUNT	(Units)
Aluminum	710	(ug/L)
Barium	823	(ug/L)
Beryllium	1 U	(ug/L)
Calcium	486000	(ug/L)
Chromium	10 U	(ug/L)
Cobalt	8.9	(ug/L)
Copper	6 U	(ug/L)
Iron	48700	(ug/L)
Magnesium	51400	(ug/L)
Manganese	316	(ug/L)
Nickel	20 U	(ug/L)
Potassium	13800	(ug/L)
Silver	6 U	(ug/L)
Sodium	144000	(ug/L)
Vanadium	5 U	(ug/L)
Zinc	40 U	(ug/L)

ANALYZED BY: 7-7-97

11 July 97

MW10C

EPA CRL - REGION V
FINAL RESULTS REPORT
REPORT PRODUCED ON: 3 JULY 97

SAMPLE OGANIZATION: BLACK & VEATCH
SAMPLE BATCH ID: 970298
SAMPLE REQUESTOR: ROBERT LANGE
ACCOUNT NO: TFA301
LABORATORY: ESAT
SAMPLE FACILITY: AMERICAN CHEMICAL SERVICES

SAMPLE: 97ZB05S17
FIELD: 97ZB05S17

COLLECTED:
RECEIVED: 26,27 JUNE 97
ANALYZED: 1 JULY 97

COMPOUND	AMOUNT	(Units)
Aluminum	3120	(ug/L)
Barium	343	(ug/L)
Beryllium	1 U	(ug/L)
Calcium	128000	(ug/L)
Chromium	38.5	(ug/L)
Cobalt	6.2	(ug/L)
Copper	11.4	(ug/L)
Iron	15200	(ug/L)
Magnesium	59700	(ug/L)
Manganese	235.1	(ug/L)
Nickel	39.7	(ug/L)
Potassium	5000 U	(ug/L)
Silver	6 U	(ug/L)
Sodium	178000	(ug/L)
Vanadium	7.9	(ug/L)
Zinc	54.8	(ug/L)

ANALYZED BY: 7-7-97

18 July 97

Region 5 Transmittal Form

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE:

SUBJECT: Review of Region V CLP Data
Received for Review on July 10, 1997

FROM: Stephen L. Ostrodka, Chief (HSRL-5J) for Steve Ostrodka
Superfund Technical Support Section Richard L Byrnes
7/23/97

TO: Data User: B+V

We have reviewed the data for the following case:

SITE NAME: American Chem SVCS (IN)

CASE NUMBER: 25525 SDG NUMBER: EBZA7

Number and Type of Samples: 18 (water)

Sample Numbers: EBZA0-3, 7-~~9~~ 8, EBZB0, 2-8 EBYZ7-9

Laboratory: REI (Rollins) Hrs. for Review: 22 hrs + 1.5 wk

Following are our findings:
the data are useable and acceptable with the qualifications described in the attached narrative.
Richard L Byrnes

cc: Regional TPO
Cecilia ~~Luckett~~
SM-5J MOORE

NARRATIVE

LABORATORY: REI
CASE: 25525
SDG: EBZA7
SITE: American Chemical Services

The samples (EBZA0-3, EBZA7-9, EBZB0, EBZB2-8, EBYZ7-9) were collected on 06/24-25/97. The laboratory received eighteen (18) low level water samples on 06/25-26/97 in good condition for organic analytes following the SOW OLC02.1. Samples EBZA3, EBZB2, EBZB5 and EBZB8 were analyzed for the list of VOA analytes only. The remaining samples were analyzed for the full list of organic analytes.

VLCS03, SLCSD2, PLCSD1 were identified as the Laboratory Control Samples For the VOA, SVOA and Pest/PCB fractions, respectively.

Samples EBZA3, EBZB2, EBZB5 and EBZB8 were identified as the trip blanks. Samples EBZA1 and EBZB6 were identified as the field blanks. Sample EBZA7 was identified as the field duplicate of sample EBZA9.

The VOA samples were analyzed within the holding time of fourteen (14) days for the preserved water samples. The SVOA and Pest/PCB samples were extracted within the holding time of seven (7) days for the water samples. The sample extracts were analyzed within forty (40) days following the extraction.

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

Reviewed by: Steffanie N. Tobin__Lockheed/ESAT
Date:__July 14th, 1997__

NARRATIVE

LABORATORY: REI
CASE: 25525
SDG: EBZA7
SITE: American Chemical Services

Below is a summary of the out-of-control audits and the possible effect on the data for this case.

1.HOLDING TIME

The laboratory received eighteen (18) low level water samples (EBZA0-3, EBZA7-9, EBZB0, EBZB2-8, EBYZ7-9) on 06/25-26/97 in good condition for the list of organic analytes following the SOW OLC02.1. The VOA samples were analyzed within the holding time of fourteen (14) days for the preserved water samples; therefore, the results are acceptable. The SVOA and Pest/PCB samples were extracted within the holding time of seven (7) days for the water samples. The SVOA and Pest/PCB extracts were analyzed within forty (40) days following the extraction; therefore, the SVOA and Pest/PCB results are acceptable.

2.GC/MS TUNING PERFORMANCE

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

The GC Resolution Check Mix met the 60% resolution criteria. DDT and Endrin degradation checks using Performance Evaluation Mix of DB-1701 and DB-17 columns were acceptable (<20%); therefore, the results are acceptable.

The Florisil Cartridge Checks met the QC criteria; therefore, the results are acceptable.

3.CALIBRATION

Initial and continuing calibration standards of VOA, SVOA and Pest/PCB were evaluated for the Target Compounds List (TCLs) and outliers were recorded on the outlier forms included as a part of this narrative.

4.METHOD BLANK

For the VOA fraction, VBLK05 and VBLK06 are the method blanks. VHBLK03 is the storage blank. VBLK05 contains methylene chloride at 0.2 µg/L and acetone at 3.0 µg/L. VBLK06 contains methylene

chloride at 0.3 µg/L and acetone at 3.0 µg/L. The storage blank is clean. Methylene chloride and acetone are common laboratory contaminants. The presence of these two compounds in the samples associated with VBLK05 and VBLK06 is flagged as non-detected (U) when the sample results are less than 10X the blank results. Please, refer to Form IVs VOA for the list of associated samples.

For the SVOA fraction, SBLKE9 and SBLKF2 are the method blanks. Both blanks are clean.

PBLKF1 and PBLKF3 are the method blanks for the Pest/PCB fraction. PBLKF1 and PBLKF3 contain no Pest/PCB residues.

5. SYSTEM MONITORING COMPOUND AND SURROGATE RECOVERY

The system monitoring compound recoveries for the VOA fraction were within the QC limits; therefore, the results are acceptable.

The surrogate recoveries for the SVOA and Pest/PCB fractions were within the QC limits; therefore, the results are acceptable.

6. LABORATORY CONTROL SAMPLES

VLCS03, SLCSD2, PLCSD1 were identified as the Laboratory Control Samples For the VOA, SVOA and Pest/PCB fractions, respectively.

The recoveries for the above laboratory Control Samples were within the QC limits; therefore, the results are acceptable.

7. FIELD BLANK AND FIELD DUPLICATE

Samples EBZA3, EBZB2, EBZB5 and EBZB8 were identified as the trip blanks. Samples EBZA1 and EBZB6 were identified as the field blanks. Sample EBZA7 was identified as the field duplicate of sample EBZA9.

EBZA1 contains 3 VOA TCLs, 2 SVOA TCLs and 1 SVOA TIC. EBZA3, EBZB2 and EBZB8 are clean. EBZB5 contains 1 VOA TCL. EBZB6 contains 2 VOA TCLs, 1 SVOA TCL and 1 SVOA TIC. EBZA7 contains 3 VOA TCLS, 1 VOA TIC, 2 SVOA TCLs and 1 Pest/PCB TCL. EBZA9 contains 2 VOA TCLS, 1 SVOA TCL, 2 SVOA TICs and 1 Pest/PCB TCL.

Reviewed by: Steffanie N. Tobin__Lockheed/ESAT
Date:__July 14th, 1997__

8.INTERNAL STANDARDS

The internal standard retention times and area counts for the VOA and SVOA fractions were within the QC limits; therefore, the results are acceptable.

9.COMPOUND IDENTIFICATION

The target compounds and TICs for the VOA, SVOA and Pest/PCB fractions were properly identified.

10.COMPOUND QUANTITATION AND REPORTED DETECTION LIMITS

The VOA, SVOA and Pest/PCB Target Compounds (TCLs) and Tentative Identified Compounds (TICs) were properly quantitated; therefore, the data are acceptable. The CRQLs were adjusted to reflect all sample dilutions.

11.SYSTEM PERFORMANCE

GC/MS baseline indicated acceptable performance.

The baseline for the Pest/PCB analysis indicated acceptable performance.

12.ADDITIONAL INFORMATION

For the SVOA fraction, the result of bis(2-ethylhexyl)phthalate was quantitated outside the calibration range for samples EBZA7. For any analyte that exceeded the calibration range in the original sample analysis; the results of the diluted analysis should be considered the sample's analyte concentration. Please, refer to Form Is for compounds which were quantitated outside the calibration range for the above SVOA samples.

Reviewed by: Steffanie N. Tobin__Lockheed/ESAT
Date:__July 14th, 1997__

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

ST 7/14/97

CASE\SAS#: 25525
COLUMN:

LABORATORY: Rollin RET
SITE NAME: American Chemical Service

Instrument# 5971-024		Initial Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.		
Date/Time: 6/26/97 23:34		6/26/97 23:34			6/27/97 16:50			6/29/97 17:24			6/30/97 10:20					
	#	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	0.152			0.201	-32.4	J				0.204	-34.1	J			
4-Nitrophenol	0.01															
Dibenzofuran	0.80															
2,4-Dinitrotoluene	0.20															

Affected samples:

	SBIKE9	SBIKF2	EBZA7DL
	SBZB0 3,4	SICSD2	EBZA0-2
	SBZA7-9		EBZB6-7
			EBVZ7-9

Reviewer's Init/Date: ST 7/11/97

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)

ST 7/14/97

CASE\SAS#: 25525
COLUMN:

LABORATORY: ~~Region~~ REI
SITE NAME: American Chemical Services

Instrument# 5971-024		Initial Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.		
Date/Time: 6/26/97 23:34		6/26/97 23:34			6/27/97 16:50			6/29/97 17:24			6/30/97 10:20					
	#	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	0.277	34.1	J												
Benzo(a)anthracene	0.80															
Chrysene	0.70															
bis(2-Ethylhexyl)phthalate	0.01															
Di-n-octyl phthalate	0.01	2.18									2.79	-28.0	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: ST 7/11/97

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#: 25525
COLUMN: DB 624
HEATED PURGE (Y/N):

LABORATORY: ST 7/14/97 Cotton REI
SITENAME: American Chemical Service

Instrument# 5971-007		Initial Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.		
Date/Time: 06/29/97 15:09		6/29/97		15:09	7/1/97		22:25	7/2/97		11:44						
	#	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															
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															
					VB1K05			VB1K06								
Samples affected:					~~EB~~ EBZB0			EBZA2,3,9,0								
					EBZB2			EBZB3-8								
					EBZA7			EBVZ7-9								
					8			VLCS03								
					1			VHB1K03								

Reviewer's Init/Date: ST 7/11/97

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

PESTICIDE/PCB TCL COMPOUNDS
(Page 1 of 1)

CASE\SAS#: 25525
COLUMN:

LABORATORY: REI
SITE NAME: American Chemical Services

Instrument# 3400C		Initial Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.		
Date/Time: 6/24/97 9:01		6/24/97 9:01			6/26/97 15:57			6/26/97 20:17			7/02/97 3:01					
	#	rf	%rsd	*	rf	%d	*	rf	%d	*	rf	%d	*	rf	%d	*
alpha-BHC	0.01															
beta-BHC	0.40															
delta-BHC	0.90															
gamma-BHC	0.01															
Heptachlor	0.01															
Aldrin	0.01															
Heptachlor epoxide	0.10															
Endosulfan I	0.10															
Dieldrin	0.05															
4, 4'-DDE	0.70															
Endrin	0.70															
Endosulfan II	0.01															
4, 4'-DDD	0.60															
Endosulfan sulfate	0.60															
4, 4'-DDT	0.01															
Methoxychlor	0.01															
Endrin ketone	0.80															
Endrin aldehyde	0.70															
alpha chlordane	0.01															
gamma chlordane	0.01															
Arochlor 1016																
Arochlor 1221																
Arochlor 1232																
Arochlor 1242																
Arochlor 1248																
Arochlor 1254																
Arochlor 1260																

Affected samples:

	PB1KF1	PB1KF3	
	P1KSD1	EBZA0-2	
	EBZB0	EBYZ7-9	
	EBZA7-9	EBZB6-7	
	EBZB3-4		

Reviewer's Init/Date: ST 7/16/97

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

CALIBRATION OUTLIER
PESTICIDE/PCB TCL COMPOUNDS
(Page 1 of 1)

CASE\SAS#: 25525
COLUMN:

LABORATORY: RET
SITE NAME: American Chemical Services

Instrument# 3400D		Initial Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.		
Date/Time: 6/24/97 9:01		6/24/97 9:01			6/26/97 15:51			6/26/97 20:17			7/02/97 3:01					
	#	rf	%rsd	*	rf	%d	*	rf	%d	*	rf	%d	*	rf	%d	*
alpha-BHC	0.01															
beta-BHC	0.40															
delta-BHC	0.90															
gamma-BHC	0.01															
Heptachlor	0.01															
Aldrin	0.01															
Heptachlor epoxide	0.10															
Endosulfan I	0.10															
Dieldrin	0.05															
4, 4'-DDE	0.70															
Endrin	0.70															
Endosulfan II	0.01															
4, 4'-DDD	0.60															
Endosulfan sulfate	0.60															
4, 4'-DDT	0.01															
Methoxychlor	0.01															
Endrin ketone	0.80															
Endrin aldehyde	0.70															
alpha chlordane	0.01															
gamma chlordane	0.01															
Arochlor 1016																
Arochlor 1221																
Arochlor 1232																
Arochlor 1242																
Arochlor 1248																
Arochlor 1254																
Arochlor 1260																

Affected samples:

	PB1KF1	PB1KF3	
	P1CSD1	EBZA0-2	
	EBZB0	EBYZ7-9	
	EBZA7-9	EBZB6-7	
	EBZB3-4		

Reviewer's Init/Date: ST 7/14/97

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

ORGANIC DATA QUALIFIER DEFINITIONS

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

VALUE-if the results is a value 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 but 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 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.

pg 1 of 10

Region 5 Transmittal Form

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE:

SUBJECT: Review of Region V CLP Data
Received for Review on July 10, 1997

FROM: Stephen L. Ostrodka, Chief (HSRL-5J) for Steve Ostrodka
Superfund Technical Support Section Richard L Byrnes
7/23/97

TO: Data User: B+V

We have reviewed the data for the following case:

SITE NAME: American Chem SVCS (IN)

CASE NUMBER: 25525 SDG NUMBER: EBZA7

Number and Type of Samples: 18 (water)

Sample Numbers: EBZA0-3, 7-9 LB, EBZB0, 2-8 EBYZ7-9

Laboratory: REI (Rollins) Hrs. for Review: 22 hrs + 1.5 wk

Following are our findings:
the data are useable and acceptable with the qualifications described in the attached narrative.
Richard L Byrnes

cc: Regional TPO
Cecilia ~~Luckett~~
SM-5J MOORE

NARRATIVE

LABORATORY: REI
CASE: 25525
SDG: EBZA7
SITE: American Chemical Services

The samples (EBZA0-3, EBZA7-9, EBZB0, EBZB2-8, EBYZ7-9) were collected on 06/24-25/97. The laboratory received eighteen (18) low level water samples on 06/25-26/97 in good condition for organic analytes following the SOW OLC02.1. Samples EBZA3, EBZB2, EBZB5 and EBZB8 were analyzed for the list of VOA analytes only. The remaining samples were analyzed for the full list of organic analytes.

VLCS03, SLCSD2, PLCSD1 were identified as the Laboratory Control Samples For the VOA, SVOA and Pest/PCB fractions, respectively.

Samples EBZA3, EBZB2, EBZB5 and EBZB8 were identified as the trip blanks. Samples EBZA1 and EBZB6 were identified as the field blanks. Sample EBZA7 was identified as the field duplicate of sample EBZA9.

The VOA samples were analyzed within the holding time of fourteen (14) days for the preserved water samples. The SVOA and Pest/PCB samples were extracted within the holding time of seven (7) days for the water samples. The sample extracts were analyzed within forty (40) days following the extraction.

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

Reviewed by: Steffanie N. Tobin__Lockheed/ESAT
Date:__July 14th, 1997__

NARRATIVE

LABORATORY: REI
CASE: 25525
SDG: EBZA7
SITE: American Chemical Services

Below is a summary of the out-of-control audits and the possible effect on the data for this case.

1.HOLDING TIME

The laboratory received eighteen (18) low level water samples (EBZA0-3, EBZA7-9, EBZB0, EBZB2-8, EBYZ7-9) on 06/25-26/97 in good condition for the list of organic analytes following the SOW OLC02.1. The VOA samples were analyzed within the holding time of fourteen (14) days for the preserved water samples; therefore, the results are acceptable. The SVOA and Pest/PCB samples were extracted within the holding time of seven (7) days for the water samples. The SVOA and Pest/PCB extracts were analyzed within forty (40) days following the extraction; therefore, the SVOA and Pest/PCB results are acceptable.

2.GC/MS TUNING PERFORMANCE

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

The GC Resolution Check Mix met the 60% resolution criteria. DDT and Endrin degradation checks using Performance Evaluation Mix of DB-1701 and DB-17 columns were acceptable (<20%); therefore, the results are acceptable.

The Florisil Cartridge Checks met the QC criteria; therefore, the results are acceptable.

3.CALIBRATION

Initial and continuing calibration standards of VOA, SVOA and Pest/PCB were evaluated for the Target Compounds List (TCLs) and outliers were recorded on the outlier forms included as a part of this narrative.

4.METHOD BLANK

For the VOA fraction, VBLK05 and VBLK06 are the method blanks. VHBLK03 is the storage blank. VBLK05 contains methylene chloride at 0.2 µg/L and acetone at 3.0 µg/L. VBLK06 contains methylene

chloride at 0.3 µg/L and acetone at 3.0 µg/L. The storage blank is clean. Methylene chloride and acetone are common laboratory contaminants. The presence of these two compounds in the samples associated with VBLK05 and VBLK06 is flagged as non-detected (U) when the sample results are less than 10X the blank results. Please, refer to Form IVs VOA for the list of associated samples.

For the SVOA fraction, SBLKE9 and SBLKF2 are the method blanks. Both blanks are clean.

PBLKF1 and PBLKF3 are the method blanks for the Pest/PCB fraction. PBLKF1 and PBLKF3 contain no Pest/PCB residues.

5.SYSTEM MONITORING COMPOUND AND SURROGATE RECOVERY

The system monitoring compound recoveries for the VOA fraction were within the QC limits; therefore, the results are acceptable.

The surrogate recoveries for the SVOA and Pest/PCB fractions were within the QC limits; therefore, the results are acceptable.

6.LABORATORY CONTROL SAMPLES

VLCS03, SLCSD2, PLCSD1 were identified as the Laboratory Control Samples For the VOA, SVOA and Pest/PCB fractions, respectively.

The recoveries for the above laboratory Control Samples were within the QC limits; therefore, the results are acceptable.

7.FIELD BLANK AND FIELD DUPLICATE

Samples EBZA3, EBZB2, EBZB5 and EBZB8 were identified as the trip blanks. Samples EBZA1 and EBZB6 were identified as the field blanks. Sample EBZA7 was identified as the field duplicate of sample EBZA9.

EBZA1 contains 3 VOA TCLs, 2 SVOA TCLs and 1 SVOA TIC. EBZA3, EBZB2 and EBZB8 are clean. EBZB5 contains 1 VOA TCL. EBZB6 contains 2 VOA TCLs, 1 SVOA TCL and 1 SVOA TIC. EBZA7 contains 3 VOA TCLS, 1 VOA TIC, 2 SVOA TCLs and 1 Pest/PCB TCL. EBZA9 contains 2 VOA TCLS, 1 SVOA TCL, 2 SVOA TICs and 1 Pest/PCB TCL.

Reviewed by: Steffanie N. Tobin__Lockheed/ESAT
Date:__July 14th, 1997__

8.INTERNAL STANDARDS

The internal standard retention times and area counts for the VOA and SVOA fractions were within the QC limits; therefore, the results are acceptable.

9.COMPOUND IDENTIFICATION

The target compounds and TICs for the VOA, SVOA and Pest/PCB fractions were properly identified.

10.COMPOUND QUANTITATION AND REPORTED DETECTION LIMITS

The VOA, SVOA and Pest/PCB Target Compounds (TCLs) and Tentative Identified Compounds (TICs) were properly quantitated; therefore, the data are acceptable. The CRQLs were adjusted to reflect all sample dilutions.

11.SYSTEM PERFORMANCE

GC/MS baseline indicated acceptable performance.

The baseline for the Pest/PCB analysis indicated acceptable performance.

12.ADDITIONAL INFORMATION

For the SVOA fraction, the result of bis(2-ethylhexyl)phthalate was quantitated outside the calibration range for samples EBZA7. For any analyte that exceeded the calibration range in the original sample analysis; the results of the diluted analysis should be considered the sample's analyte concentration. Please, refer to Form Is for compounds which were quantitated outside the calibration range for the above SVOA samples.

Reviewed by: Steffanie N. Tobin__Lockheed/ESAT
Date:__July 14th, 1997__

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

7/14/97

CASE\SAS#: 25525
COLUMN:

LABORATORY: ~~Rollin~~ RET
SITE NAME: American Chemical Service

Instrument# 5971-024		Initial Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.		
Date/Time: 6/26/97 23:34		6/26/97 23:34			6/27/97 16:50			6/29/97 17:24			6/30/97 10:20					
	#	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	0.152			0.201	-32.4	J				0.204	-34.1	J			
4-Nitrophenol	0.01															
Dibenzofuran	0.80															
2,4-Dinitrotoluene	0.20															

Affected samples:

SBLKE9	SBLKF2	EBZA7DL
SBZBC3,4	SICS02	EBZH0-2
SBZA7-9		EBZB6-7
		EBVZ7-9

Reviewer's Init/Date: SJ 7/11/97

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)

ST 7/14/97

CASE\SAS#: 25525
COLUMN:

LABORATORY: ~~Rettin~~ REI
SITE NAME: American Chemical Services

Instrument# 5971-024		Initial Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.		
Date/Time: 6/26/97 23:34		6/26/97 23:34			6/27/97 16:50			6/29/97 17:24			6/30/97 10:20					
	#	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	0.277	34.1	J												
Benzo(a)anthracene	0.80															
Chrysene	0.70															
bis(2-Ethylhexyl)phthalate	0.01															
Di-n-octyl phthalate	0.01	2.18									2.79	-28.0	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: ST 7/11/97

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#: 25525
COLUMN: DB 624
HEATED PURGE (Y/N):

LABORATORY: Rottin REI
SITENAME: American Chemical Service

Instrument# 5971-007		Initial Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.		
Date/Time: 06/29/97 15:09		6/29/97		15:09	7/1/97		22:25	7/2/97		11:44						
	#	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															
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															
					VBIK05			VBIK06								
Samples affected:					~~EB~~ EBZB0			EBZA2,3,9,0								
					EBZB2			EBZB3-8								
					EBZA7			EBYZ7-9								
					8			VLCS03								
					1			VHBIK03								

Reviewer's Init/Date: JT 7/11/97

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 SUMMARY

PESTICIDE/PCB TCL COMPOUNDS

(Page 1 of 1)

CASE\SAS#: 25525
COLUMN:

LABORATORY: REI
SITE NAME: American Chemical Services

Instrument# 3400C		Initial Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.		
Date/Time: 6/24/97 9:01		6/24/97 9:01			6/26/97 15:51			6/26/97 20:17			7/02/97 3:01					
	#	rf	%rsd	*	rf	%d	*	rf	%d	*	rf	%d	*	rf	%d	*
alpha-BHC	0.01															
beta-BHC	0.40															
delta-BHC	0.90															
gamma-BHC	0.01															
Heptachlor	0.01															
Aldrin	0.01															
Heptachlor epoxide	0.10															
Endosulfan I	0.10															
Dieldrin	0.05															
4, 4'-DDE	0.70															
Endrin	0.70															
Endosulfan II	0.01															
4, 4'-DDD	0.60															
Endosulfan sulfate	0.60															
4, 4'-DDT	0.01															
Methoxychlor	0.01															
Endrin ketone	0.80															
Endrin aldehyde	0.70															
alpha chlordane	0.01															
gamma chlordane	0.01															
Arochlor 1016																
Arochlor 1221																
Arochlor 1232																
Arochlor 1242																
Arochlor 1248																
Arochlor 1254																
Arochlor 1260																

Affected samples:

	PB1KF1	PB1KF3	
	PKSD1	EBZA0-2	
	EBZB0	EBYZ7-4	
	EBZA7-9	EBZB6-7	
	EBZB3-4		

Reviewer's Init/Date: ST 7/16/97

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

PESTICIDE/PCB TCL COMPOUNDS
(Page 1 of 1)

CASE\SAS#: 25525
COLUMN:

LABORATORY: RET
SITE NAME: American Chemical Services

Instrument# 34TOD		Initial Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.		
Date/Time: 6/24/97 9:01		6/24/97 9:01			6/26/97 15:51			6/26/97 20:17			7/02/97 7:01					
	#	rf	%rsd	*	rf	%d	*	rf	%d	*	rf	%d	*	rf	%d	*
alpha-BHC	0.01															
beta-BHC	0.40															
delta-BHC	0.90															
gamma-BHC	0.01															
Heptachlor	0.01															
Aldrin	0.01															
Heptachlor epoxide	0.10															
Endosulfan I	0.10															
Dieldrin	0.05															
4, 4'-DDE	0.70															
Endrin	0.70															
Endosulfan II	0.01															
4, 4'-DDD	0.60															
Endosulfan sulfate	0.60															
4, 4'-DDT	0.01															
Methoxychlor	0.01															
Endrin ketone	0.80															
Endrin aldehyde	0.70															
alpha chlordane	0.01															
gamma chlordane	0.01															
Arochlor 1016																
Arochlor 1221																
Arochlor 1232																
Arochlor 1242																
Arochlor 1248																
Arochlor 1254																
Arochlor 1260																

Affected samples:

	PB1KF1	PB1KF3		
	P1CSD1	EBZA0-8		
	EBZB0	EBYZ7-9		
	EBZA7-9	EBZB6-7		
	EBZB3-4			

Reviewer's Init/Date: ST 7/14/97

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

ORGANIC DATA QUALIFIER DEFINITIONS

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

VALUE-if the results is a value 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 but 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 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.

Region 5 Transmittal Form

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE:

SUBJECT: Review of Region V CLP Data
Received for Review on July 10, 1997

FROM: Stephen L. Ostrodka, Chief (HSRL-5J) for Steve Ostrodka
Superfund Technical Support Section Richard L Byrnes
7/23/97

TO: Data User: B+V

We have reviewed the data for the following case:

SITE NAME: American Chem SVCS (N)

CASE NUMBER: 25525 SDG NUMBER: EBZA7

Number and Type of Samples: 18 (water)

Sample Numbers: EBZA0-3, 7-9 LB, EBZB0, 2-8 EBYZ7-9

Laboratory: REI (Rollins) Hrs. for Review: 22 hrs + 1.5 wk

Following are our findings:
the data are usable and acceptable with the qualifications described in the attached narrative.
Richard L Byrnes

cc: Regional TPO
Cecilia ~~Luckett~~
SM-5J MOORE

United States Enviromental Protection Agency
Contract Laboratory Program

Specialized Analytical Services Packing List/Chain of Custody

SAS No.

Case No. 35525

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

2. Preservative (Enter in Column D)
   1. HCl
   2. HNO3
   3. NAHSO4
   4. H2SO4
   5. NAOH
   6. Ice Only
   7. Other (Specify in Column D)
   N. Not Preserved

2. Region No.: V
Sampling Co.: BUSPC
4. Date Shipped: 6-24-97
Carrier: FEDERAL EXPRESS
6. Date Received--Received by: 6/25/97 1020 Diane E. Jones
Sampler (Name): Steve MRKVICKA
Airbill Number: 5405965412
Laboratory Contract Number: 68-D6-0061
Unit Price: 459.50
Sampler Signature: [signature]
5. Ship To: Rollins Environmental, Inc. 3135 Research Park Rd. Ann Arbor, MI 48108 ATTN: Tom Marshall
7. Transfer to:
Date Received
Received by
Contract Number
Price

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

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 Analysis	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/ Year/Time Sample Collection	I Sampler Initials	J High Phases: Solids	Water-Miscible Liq.	Water-Immis Liq.
EBZB0 972B05S05	2	L	G	1	VOAs	5-155726,8 ACS	GW05-001	6-24-97 1525	SRM			
972B05S05	2	L	G	1	VOAs	5-155727,29-31						
972B05S05	2	L	G	6	ABN	5-155720						
972B05S05	2	L	G	6	ABN	5-155721,22						
972B05S05	2	L	G	6	Pest/PCBs	5-155723						
972B05S05	2	L	G	6	Pest/PCBs	5-155724,5						
EBZB2 972B05TB02	4	L	G	1	VOAs	5-155741,2 ACS	TB02-201	6-24-97 1700	SRM			

First Sample received: EBZB0
Last Sample: EBZB2

Shipment for SAS Complete? (Y) N
Page 1 of 1
Sample(s) to be Used for Laboratory QC: 5-155721,22,29,25,27,29-31
Additional Sampler Signatures:
Chain of Custody Seal Number(s): 158647,648

CHAIN OF CUSTODY RECORD

SDG: EBZA7

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
[signature]	6-24-97 1730		TMM	6/26/97	
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
	6/25/97 1020	Diane E. Jones			EBZB0
Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time	Remarks: Is custody seal intact? (Y) N / none	
		Diane E. Jones	6/25/97 1020		

DISTRIBUTION: White - Region Copy; Gold - Lab Copy for Return to Region; Yellow - Data User**; Pink - Lab Copy for Return to Data User**

EPA Form 9110-3

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

**Data User means the organization which contracted the laboratory services

A21-012-7 REV. 3/94

52401

EPA United States Enviromental Protection Agency Contract Laboratory Program

Special Analytical Services Packing List/Chain of Custody

SAS No.

Case No. 25525

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

2. Preservative (Enter in Column D): 1. HCl 2. HNO3 3. NAHSO4 4. H2SO4 5. NAOH 6. Ice Only 7. Other (Specify in Column D) N. Not Preserved

2. Region No.: V

Sampling Co.: BVSPC

4. Date Shipped: 6-24-97

Carrier: FEDERAL EXPRESS

6. Date Received–Received by: 6/25/97 1020 Dana E. Jones

Sampler (Name): Steve Mikvicka

Airbill Number: 5405965412

Laboratory Contract Number: 68-D6-0061

Unit Price: 459.50

Sampler Signature:

5. Ship To: ROLLINS ENVIRONMENTAL 3735 RESEARCH PARK DR. ANN ARBOR, MI 48108 ATTN: TOM MARSHALL

7. Transfer to:

Date Received

Received by

Contract Number

Price

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

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 Analysis	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Sampler Initials	J High Phases: Solids	Water-Miscible Liq.	Water-Immis Liq.
3A7 972B05S01	2	L	G	1	VOA	5-150009,10 ACS	GW01-001	6-24-97 1130	SRM			
972B05S01	2	L	G	6	ABN	5-150007 ACS	GW01-001	6-24-97 1130	↓			
972B05S01	2	L	G	6	PEST/PCBs	5-150008 ACS	GW01-001	6-24-97 1130	↓			
3A8 972B05S02	2	L	G	1	VOA	5-150015,16 ACS	GW02-001	6-24-97 1140	SRM			
972B05S02	2	L	G	6	ABN	5-150013 SRM 6-24-97 ACS	GW02-001	6-24-97 1140	↓			
972B05S02	2	L	G	6	PEST/PCBs	5-150014 ACS	GW02-001	6-24-97 1140	↓			
3A9 972B05D01	2	L	G	1	VOA	5-155703,4 ACS	GW02-101	6-24-97 1140	↓			
972B05D01	2	L	G	6	ABN	5-155701 ACS	GW02-101	6-24-97 1140	↓			
972B05D01	2	L	G	6	PEST/PCBs	5-155702 ACS	GW02-101	6-24-97 1140	↓			

Shipment for SAS Complete? (Y) N

Page 1 of 2

Sample(s) to be Used for Laboratory QC

Additional Sampler Signatures: First Sample: EBZA7

Chain of Custody Seal Number(s): 158583, 158582

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
	6-24-97 1730		First Sample SD6: EBZA7		EBZA7
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
	6/25/97 1020	Dana E. Jones			6/26/97
Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time	Remarks Is custody seal intact? (Y) N / none	
		Dana E. Jones	6/25/97 1020		

A21-012-7 REV. 3/94

DISTRIBUTION: White – Region Copy; Gold – Lab Copy for Return to Region; Yellow – Data User**; Pink – Lab Copy for Return to Data User**

EPA Form 9110-3

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

**Data User means the organization wh ntracted the laboratory services

52 0

EPA United States Enviromental Protection Agency
Contract Laboratory Program

Special Analytical Services Packing List/Chain of Custody

SAS No.

Case No. 2552

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

2. Preservative (Enter in Column D)
1. HCl
2. HNO3
3. NAHSO4
4. H2SO4
5. NAOH
6. Ice Only
7. Other (Specify in Column D)
N. Not Preserved

2. Region No.: V
Sampling Co.: DVSPC
Sampler (Name): Steve Mrkvicka
Sampler Signature: [signature]

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

4. Date Shipped: 6-25-97
Carrier: Federal Express
Airbill Number: 5405965401

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

6. Date Received–Received by: 6/26/97 1010 [signature]
Laboratory Contract Number: 68-D6-0061
Unit Price: 459.50

7. Transfer to:
Date Received
Received by
Contract Number
Price

	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 Analysis	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Sampler Initials	J High Phases: Solids	Water-Miscible Liq.	Water-Immis Liq.
EBZB6	97ZB05RB01	4	L	G	1	VOAs	5-155764,5	ACS-RB01-201	6-24-97 1815	SRM			
↓	97ZB05RB01	4	L	G	6	ABN	5-155761	↓	↓	↓			
	97ZB05RB01	4	L	G	6	Pest/PCBs	5-155763	↓	↓	↓			
EBZB7	97ZB05S08	2	L	G	1	VOAs	5-155770,1	ACS-GW08-001	6-25-97 0920	SRM			
↓	97ZB05S08	2	L	G	6	ABN	5-155768	↓	↓	↓			
	97ZB05S08	2	L	G	6	Pest/PCBs	5-155769	↓	↓	↓			
	~~97ZB05S09~~	~~2~~	~~L~~	~~G~~	~~1~~	~~VOAs~~	~~5-155776,7~~	~~ACS-GW09-001~~	~~6-25-97 1337~~	~~SRM~~			
	~~97ZB05S09~~	~~2~~	~~L~~	~~G~~	~~6~~	~~ABN~~	~~5-155774~~	↓	↓	↓			
	~~97ZB05S09~~	~~2~~	~~L~~	~~G~~	~~6~~	~~Pest/PCBs~~	~~5-155775~~	↓	↓	↓			
EBZB8	97ZB05TB03	4	L	G	1	VOAs		ACS-TB03-201	6-25-97	SRM			

Shipment for SAS Complete? (Y) N
Page 2 of 2
Sample(s) to be Used for Laboratory QC
Additional Sampler Signatures: First
Chain of Custody Seal Number(s): 158661, 158662

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
[signature]	6-25-97 1700		First Sample received: CBZB6		
	6/26/97 1010	[signature]	Last Sample: EBZB8		
		Received for Laboratory by: (Signature) [signature]	6/26/97 1010	Remarks: Is custody seal intact? (Y) N / none SD 6: EBZA7	

DISTRIBUTION: White – Region Copy; Gold – Lab Copy for Return to Region; Yellow – Data User**; Pink – Lab Copy for Return to Data User**

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SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS
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**Data User means the organization which contracted the laboratory services

A21-012-7 REV. 3/94

UL 675

T [signature] 52403
6/26/97

EPA United States Enviromental Protection Agency
Contract Laboratory Program

Special Analytical Services Packing List/Chain of Custody

SAS No.

Case No. 25525

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

2. Preservative (Enter in Column D): 1. HCl 2. HNO3 3. NAHSO4 4. H2SO4 5. NAOH 6. Ice Only 7. Other (Specify in Column D) N. Not Preserved

2. Region No.: V

Sampling Co.: BVSPC

4. Date Shipped: 6-25-97

Carrier: Federal Express

6. Date Received–Received by: 6/26/97 1010 Sara E. Lub

Sampler (Name): STEVE MRKVICKA

Airbill Number: 5405965401

Laboratory Contract Number: 68-D6-0061

Unit Price: 459.50

Sampler Signature: [signature]

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

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

7. Transfer to:

Date Received

Received by

Contract Number

Price

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 Analysis	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Sampler Initials	J High Phases: Solids	Water-Miscible Liq.	Water-Immis Liq.
EBYZ7						SRM 6-25-97						
97ZB05S06	2	L	G	1	VOAs	5-155745,6 ACS	GW06-001	6-24-97 1150	SRM			
97ZB05S06	2	L	G	6	ABN	5-155743	↓	↓	↓			
97ZB05S06	2	L	G	6	Pest/PCBs	5-155744 SRM	↓	↓	↓			
BYZ8 97ZB05S07	2	L	G	1	VOAs	5-155751,2 ACS	GW07-001	6-25-97 1040	SRM			
97ZB05S07	2	L	G	6	ABN	5-155749	↓	↓	↓			
97ZB05S07	2	L	G	6	Pest/PCBs	5-155750	↓	↓	↓			
BYZ9 97ZB05D02	2	L	G	1	VOAs	5-155757,8 ACS	GW07-101	6-25-97 1040	SRM			
97ZB05D02	2	L	G	6	ABN	5-155755	↓	↓	↓			
97ZB05D02	2	L	G	6	Pest/PCBs	5-155756	↓	↓	↓			

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

Page 1 of 2

Sample(s) to be Used for Laboratory QC

Additional Sampler Signatures: First Sample received

Chain of Custody Seal Number(s): 158661, 158662

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
[signature]	6-25-97 1700				EBYZ7 EBZA0
	6-26-97 1010	Sara E. Lub	Last Sample		EBYZ9 EBZA5

Received for Laboratory by: (Signature) Sara E. Lub — Date/Time 6/26/97 1010

Remarks: Is custody seal intact? Y/N / none — SDG EBZA72 A

DISTRIBUTION: White – Region Copy; Gold – Lab Copy for Return to Region; Yellow – Data User**; Pink – Lab Copy for Return to Data User**

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SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS
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**Data User means the organization w[illegible] ntracted the laboratory services

6/26/97 52482

A21-012-7 REV. 3/94

65

EPA United States Enviromental Protection Agency
Contract Laboratory Program

Special Analytical Services Packing List/Chain of Custody

SAS No.	Case No.
	25525

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

2. Preservative (Enter in Column D): 1. HCl 2. HNO3 3. NAHSO4 4. H2SO4 5. NAOH 6. Ice Only 7. Other (Specify in Column D) N. Not Preserved

2. Region No.: V
Sampling Co.: BVSPC
Sampler (Name): Steve MRKVICKA
Sampler Signature: [signature]

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

4. Date Shipped: 6-24-97
Carrier: Federal Express
Airbill Number: 5405965412

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

6. Date Received--Received by: [signature] 6/25/97 1020
Laboratory Contract Number: 68-D6-0061
Unit Price: 459.50

7. Transfer to:
Date Received:
Received by:
Contract Number:
Price:

	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 Analysis	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Sampler Initials	J High Phases: Solids	Water-Miscible Liq.	Water-Immis Liq.
EBZB3	97ZB05S03	2	L	G	1	VOAs	5-155709,10	ACS-GW03-001	6-24-97 1425	SRM			
	97ZB05S03	2	L	G	6	ABN	5-155707	↓	↓	↓			
	97ZB05S03	2	L	G	6	Pest/PCBs	5-155708	↓	↓	↓			
EBZB4	97ZB05S04	2	L	G	1	VOAs	5-155715,6	ACS-GW04-001	6-24-97 1440	SRM			
	97ZB05S04	2	L	G	6	ABN	5-155713	↓	↓	↓			
	97ZB05S04	2	L	G	6	Pest/PCBs	5-155714	↓	↓	↓			
EBZB5	97ZB05TB01	4	L	G	1	VOAs	5-155739,40	ACS-TB01-201	6-24-97 1655	SRM			

First Sample: EBZ B3
Last Sample: EBZ B5

Shipment for SAS Complete? (Y/N)	Page	Sample(s) to be Used for Laboratory QC	Additional Sampler Signatures	Chain of Custody Seal Number(s)
Y	2 of 2		SD6: EBZA7	158583, 158582

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
[signature]	6-24-97 1730		[signature]	6/26/97	
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
	6/25/97 1020	[signature]			
Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time	Remarks Is custody seal intact? Y/N / none	
		[signature]	6/25/97 1020		

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DISTRIBUTION: White – Region Copy; Gold – Lab Copy for Return to Region; Yellow – Data User**; Pink – Lab Copy for Return to Data User**

EPA Form 9110-3

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

**Data User means the organization which contracted the laboratory services

52492

EPA United States Environmental Protection Agency Contract Laboratory Program

Special Analytical Services Packing List/Chain of Custody

SAS No.

Case No. 25525

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

2. Preservative (Enter in Column D)
   1. HCl
   2. HNO3
   3. NAHSO4
   4. H2SO4
   5. NAOH
   6. Ice Only
   7. Other (Specify in Column D)
   N. Not Preserved

2. Region No.: V

Sampling Co.: BVSPC

4. Date Shipped: 6-25-97

Carrier: Federal Express

6. Date Received--Received by: 6/26/97 1010 Jana E. Jeb

Sampler (Name): Steve Mirkvicka

Airbill Number: 5405965423

Laboratory Contract Number: 68-D6-0061

Unit Price: 457.50

Sampler Signature: [signature]

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

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

7. Transfer to:

Date Received

Received by

Contract Number

Price

	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 Analysis	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Sampler Initials	J High Phases: Solids	Water-Miscible Liq.	Water-Immis Liq.
B2A0	972B05S09	2	L	G	1	VOAs	5-155776.7	ACS-GW09-001	6-25-97 1337	SRM			
	972B05S09	2	L	G	6	ABN	5-155774	ACS-GW09-001	↓	↓			
	972B05S09	2	L	G	6	Pest/PCBs	5-155775	↓	↓	↓			
B2A1	972B05RB02	4	L	G	1	VOAs	5-155784.5	ACS-RB02-201	6-25-97 1430	SRM			
	972B05RB02	4	L	G	6	ABN	5-155782	↓	↓	↓			
	972B05RB02	4	L	G	6	Pest/PCBs	5-155783	↓	↓	↓			
B2A2	972B05S10	2	L	G	1	VOAs	5-155790.1	ACS-GW10-001	6-25-97 1415	SRM			
	972B05S10	2	L	G	6	ABN	5-155788	↓	↓	↓			
	972B05S10	2	L	G	6	Pest/PCBs	5-155789	↓	↓	↓			
B2A3	972B05TB04	4	L	G	1	VOAs	5-155794.5	ACS-TB04-201	6-25-97 1615	SRM			

Shipment for SAS Complete? (Y) N

Page 1 of 1

Sample(s) to be Used for Laboratory QC

Additional Sampler Signatures: First Sample received: EB2A0

Chain of Custody Seal Number(s): 158571, 158581

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
[signature]	6-25-97 1700		Last Sample		: EB2A3
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
	6/26/97 1010	Jana E. Jeb		SDG:	EB2A7
Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time	Remarks Is custody seal intact? (Y) N / none	
		Jana E. Jeb	6/26/97 1010	T Hey 6/26/97	

DISTRIBUTION: White – Region Copy; Gold – Lab Copy for Return to Region; Yellow – Data User**; Pink – Lab Copy for Return to Data User**

EPA Form 9110-3

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

**Data User means the organization w ntracted the laboratory services

A21-012-7 REV. 3/94

52 33

EPA United States Enviromental Protection Agency
Contract Laboratory Program

Speci[illegible]nalytical Services Packing List/Chain of Custody

SAS No.	Case No.

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

2. Preservative (Enter in Column D)
   1. HCl
   2. HNO3
   3. NAHSO4
   4. H2SO4
   5. NAOH
   6. Ice Only
   7. Other (Specify in Column D)
   N. Not Preserved

2. Region No.: [illegible]
Sampling Co.: [illegible]
Sampler (Name): [illegible]
Sampler Signature: [illegible]

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

4. Date Shipped: [illegible]
Carrier: [illegible]
Airbill Number: [illegible]

5. Ship To: [illegible] Environmental, Inc
[illegible] Research Park Rd.
Ann Arbor, MI 48108
ATTN: Tom Marshall

6. Date Received--Received by: 6/26/97 1010 [signature]
Laboratory Contract Number: 68-D6-0061
Unit Price: 49.50
7. Transfer to:
Date Received
Received by
Contract Number
Price

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 Analysis	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Sampler Initials	J High Phases: Solids	Water-Miscible Liq.	Water-Immis Liq.
[illegible]	[illegible]	L	G	1	VOAs	5-155776.7	ACS-[illegible]	[illegible]	[illegible]			
[illegible]	2	L	G	6	ABN	5-155774	ACS-[illegible]	↓	↓			
[illegible]	2	L	G	6	Pest/PCBs	5-155775	↓	↓	↓			
[illegible]	4	L	G	1	VOAs	5-155784.5	ACS-[illegible]	[illegible]	[illegible]			
[illegible]	4	L	G	6	ABN	5-155782	↓	↓	↓			
[illegible]	4	L	G	6	Pest/PCBs	5-155783	↓	↓	↓			
[illegible]	2	L	G	1	VOAs	5-155710.1	ACS-[illegible]	[illegible]	[illegible]			
[illegible]	2	L	G	6	ABN	5-155788	↓	↓	↓			
[illegible]	2	L	G	6	Pest/PCBs	5-155789	↓	↓	↓			
[illegible]	4	L	G	1	VOAs	5-155794.5	ACS-[illegible]	[illegible]	[illegible]			

Shipment for SAS Complete? (Y/N)	Page 1 of 1	Sample(s) to be Used for Laboratory QC	Additional Sampler Signatures	Chain of Custody Seal Number(s)
			First Sample received: EB4A0	[illegible]

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
[signature]	[illegible] 1700		Last Sample		: EB2A3
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
	6/26/97 1010	[signature]		SDG:	EB2A7
Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time	Remarks Is custody seal intact? (Y) N / none	
		[signature]	6/26/97 1010	T Hey 6/26/97	

DISTRIBUTION: White – Region Copy; Gold – Lab Copy for Return to Region; Yellow – Data User**; Pink – Lab Copy for Return to Data User**

EPA Form 9110-3

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

**Data User means the organization which contracted the laboratory services

A21-012-7 REV. 3/94

52403

EPA United States Enviromental Protection Agency
Contract Laboratory Program

Special Analytical Services Packing List/Chain of Custody

SAS No.:

Case No.: 25525

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

2. Preservative (Enter in Column D): 1. HCl 2. HNO3 3. NAHSO4 4. H2SO4 5. NAOH 6. Ice Only 7. Other (Specify in Column D) N. Not Preserved

2. Region No.: V

Sampling Co.: BVSPC

4. Date Shipped: 6-25-97

Carrier: Federal Express

6. Date Received--Received by: 6/26/97 1010 [signature]

Sampler (Name): STEVE MRKVICKA

Airbill Number: 5405965401

Laboratory Contract Number: 68-D6-0061

Unit Price: 459.50

Sampler Signature: [signature]

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

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

ATTN: Tom Marshall

7. Transfer to:

Date Received:

Received by:

Contract Number:

Price:

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 Analysis	F Regional Specific Tracking Number or Tag Numbers (SRM 6-25-97)	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Sampler Initials	J High Phases: Solids	Water-Miscible Liq.	Water-Immis Liq.
97ZB05S06	2	L	G	1	VOAs	5-155745,6 ACS	GW06-001	6-24-97 1350	SRM			
97ZB05S06	2	L	G	6	ABN	5-155743 A	↓	↓	↓			
97ZB05S06	2	L	G	6	Pest/PCBs	5-155744 SRM 6-24-97	↓	↓	↓			
97ZB05S07	2	L	G	1	VOAs	5-155751,2 ACS	GW07-001	6-25-97 1040	SRM			
97ZB05S07	2	L	G	6	ABN	5-155749	↓	↓	↓			
97ZB05S07	2	L	G	6	Pest/PCBs	5-155750	↓	↓	↓			
97ZB05D02	2	L	G	1	VOAs	5-155757,8 ACS	GW07-101	6-25-97 1040	SRM			
97ZB05D02	2	L	G	6	ABN	5-155755	↓	↓	↓			
97ZB05D02	2	L	G	6	Pest/PCBs	5-155756	↓	↓	↓			

Shipment for SAS Complete? (Y) N

Page 1 of 2

Sample(s) to be Used for Laboratory QC:

Additional Sampler Signatures: First Sample received

Chain of Custody Seal Number(s): 158661, 158662

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
[signature]	6-25-97 1700				EBYZ7
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
	6-26-97 1010	[signature]	Last Sample		EBYZ9
Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time	Remarks: Is custody seal intact? (Y) N / none	
		[signature]	6/26/97 1010	SDG EBZA7	

A21-012-7 REV. 3/94

DISTRIBUTION: White – Region Copy; Gold – Lab Copy for Return to Region; Yellow – Data User**; Pink – Lab Copy for Return to Data User**

EPA Form 9110-3

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

**Data User means the organization whi tracted the laboratory services

6/26/97 52 2

United States Enviromental Protection Agency
Contract Laboratory Program

Spec Analytical Services Packing List/Chain of Custody

SAS No.

Case No.

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

2. Preservative (Enter in Column D)
   1. HCl
   2. HNO3
   3. NAHSO4
   4. H2SO4
   5. NAOH
   6. Ice Only
   7. Other (Specify in Column D)
   N. Not Preserved

2. Region No.: V
Sampling Co.: LVSPC
Sampler (Name): Steve Mirkovicka
Sampler Signature: [signature]
3. Purpose*
Lead: [X] SF [ ] PRP [ ] ST [ ] FED
Early Action: [ ] CLEM [ ] PA [ ] REM
[ ] SI [ ] ESI [ ] RI [ ] OIL [ ] UST
Long-Term Action: [ ] FS [X] RD [X] RA [ ] O&M [ ] NPLD

4. Date Shipped: 6-25-97
Carrier: Federal Express
Airbill Number: 5405165401
5. Ship To: Rollins Environmental, Inc. 3135 Research Park Rd. Ann Arbor, MI 48108
ATTN: Tom Marshall

6. Date Received--Received by: 6/26/97 1010 [signature]
Laboratory Contract Number: 68-D6-0061
Unit Price: 459.50
7. Transfer to:
Date Received
Received by
Contract Number
Price

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 Analysis	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/ Year/Time Sample Collection	I Sampler Initials	J High Phases: Solids	Water-Miscible Liq	Water-Immis Liq
172B05KB01	4	L	G	1	VOAs	5-155764, 5	ACS-KB01-201	6-24-97 1815	SRM			
172B05KB01	4	L	G	6	ABN	5-155761	↓	↓	↓			
172B05KB01	4	L	G	6	Pest/PCBs	5-155763	↓	↓	↓			
172B05S08	2	L	G	1	VOAs	5-155770,1	ACS-SW08-001	6-25-97 0920	SRM			
172B05S08	2	L	G	6	ABN	5-155768	↓	↓	↓			
172B05S08	2	L	G	6	Pest/PCBs	5-155767	↓	↓	↓			
~~172B05S09~~	~~2~~	~~L~~	~~G~~	~~1~~	~~VOAs~~	~~5-155776,7~~	~~ACS-GW01-001~~	~~6-25-97 1337~~	~~SRM~~			
~~172B05S09~~	~~2~~	~~L~~	~~G~~	~~6~~	~~ABN~~	~~5-155774~~	↓	↓	↓			
~~172B05S09~~	~~2~~	~~L~~	~~G~~	~~6~~	~~Pest/PCBs~~	~~5-155775~~	↓	↓	↓			
172B05TB03	4	L	G	1	VOAs		ACS-TB03-201	6-25-97	SRM			

Shipment for SAS Complete? (Y) N
Page 2 of 2
Sample(s) to be Used for Laboratory QC
Additional Sampler Signatures
Chain of Custody Seal Number(s): 158661, 158662

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
[signature]	6-25-97 1900		First Sample		Sample Received: CBZB6
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
	6/26/97 1010	[signature]	Last Sample		CBZB8
Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time	Remarks: Is custody seal intact? (Y) N / none	
		[signature]	6/26/97 1010	SO6: EBZA7	

DISTRIBUTION: White – Region Copy; Gold – Lab Copy for Return to Region; Yellow – Data User**; Pink – Lab Copy for Return to Data User**

EPA Form 9110-3

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

**Data User means the organization which contracted the laboratory services

T Jm 52493
6/26/97

A21-012-7 REV. 3/94

EPA United States Enviromental Protection Agency
Contract Laboratory Program

Special Analytical Services Packing List/Chain of Custody

SAS No.:

Case No.: 9525

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

2. Preservative (Enter in Column D)
   1. HCl
   2. HNO3
   3. NAHSO4
   4. H2SO4
   5. NAOH
   6. Ice Only
   7. Other (Specify in Column D)
   N. Not Preserved

2. Region No.: V
Sampling Co.: EVSPC
Sampler (Name): Steve MRKVICKA
Sampler Signature: [signature]

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

4. Date Shipped: 6-24-97
Carrier: FEDERAL EXPRESS
Airbill Number: 5405965412

5. Ship To
Rollins Environmental, Inc.
3185 Research Park Rd.
Ann Arbor, MI 48108
ATTN: Tom Marshall

6. Date Received--Received by: 6/25/97 1020 [signature]
Laboratory Contract Number: 68-D6-0061
Unit Price: 459.50

7. Transfer to:
Date Received:
Received by:
Contract Number:
Price:

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 Analysis	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/ Year/Time Sample Collection	I Sampler Initials	J High Phases: Solids	Water-Miscible Liq	Water-Immis Liq.
172B05S05	2	L	G	1	VOAs	S-155726, 8 ACS-	GW05-001	6-24-97 1525	SKM			
172B05S05	2	L	G	1	VOAs	S-155727, 29-31						
172B05S05	2	L	G	6	ABN	S-155720						
172B05S05	2	L	G	6	ABN	S-155721, 22						
172B05S05	2	L	G	6	Pest/PCBs	S-155723						
172B05S05	2	L	G	6	Pest/PCBs	S-155724, 5						
172B05TB02	4	L	G	1	VOAs	S-155741, 2 ACS-	TB02-201	6-24-97 1700	SKM			

First Sample received: EBZB0
Last Sample: EBZB2

Shipment for SAS Complete? (Y) N
Page 1 of 1
Sample(s) to be Used for Laboratory QC: S-155721, 22, 24, 25, 27, 29-31
Additional Sampler Signatures:
Chain of Custody Seal Number(s): 158647, 648

CHAIN OF CUSTODY RECORD

SDG: EBZA7

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
[signature]	6-24-97 1730		TMM	6/26/97	
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
	6/25/97 1020	[signature]			
Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time	Remarks: Is custody seal intact? (Y) N / none	
		[signature]	6/25/97 1020		

DISTRIBUTION: White – Region Copy; Gold – Lab Copy for Return to Region; Yellow – Data User**; Pink – Lab Copy for Return to Data User**

EPA Form 9110-3

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

**Data User means the organization w ontracted the laboratory services

A21-012-7 REV. 3/94

EPA United States Enviromental Protection Agency
Contract Laboratory Program

Spec Analytical Services Packing List/Chain of Custody

SAS No.

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
   7. Waste
   8. Other (Specify in Column A)

2. Preservative (Enter in Column D)
   1. HCl
   2. HNO3
   3. NAHSO4
   4. H2SO4
   5. NAOH
   6. Ice Only
   7. Other (Specify in Column D)
   N. Not Preserved

2. Region No.: V
Sampling Co.: EVSPC
Sampler (Name): Steve Mikvicka
Sampler Signature: [signature]

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

4. Date Shipped: 6-24-97
Carrier: FEDERAL EXPRESS
Airbill Number: 5405965412

5. Ship To
ROLLINS ENVIRONMENTAL
3985 RESEARCH PARK DR.
ANN ARBOR, MI 48108
ATTN: TOM MARSHALL

6. Date Received--Received by: 6/25/97 1020 [signature]
Laboratory Contract Number: 68-D6-0061
Unit Price: 459.50

7. Transfer to:
Date Received
Received by
Contract Number
Price

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 Analysis	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Sampler Initials	J High Phases: Solids	Water-Miscible Liq.	Water-Immis Liq.
97ZB05S01	2	L	G	1	VOA	5-150009, 10	ACS-GW01-001	6-24-97 1130	SRM			
97ZB05S01	2	L	G	6	ABN	5-150007	ACS-GW01-001	6-24-97 1130	↓			
97ZB05S01	2	L	G	6	PEST/PCBs	5-150008	ACS-GW01-001	6-24-97 1130	↓			
97ZB05S02	2	L	G	1	VOA	5-150015, 16	ACS-GW02-001	6-24-97 1140	SRM			
97ZB05S02	2	L	G	6	ABN	5-150013 SRM 6-24-97	ACS-GW02-001	6-24-97 1140	↓			
97ZB05S02	2	L	G	6	PEST/PCBs	5-150014	ACS-GW02-001	6-24-97 1140	↓			
97ZB05D01	2	L	G	1	VOA	5-155703, 4	ACS-GW02-101	6-24-97 1140	↓			
97ZB05D01	2	L	G	6	ABN	5-155701	ACS-GW02-101	6-24-97 1140	↓			
97ZB05D01	2	L	G	6	PEST/PCBs	5-155702	ACS-GW02-101	6-24-97 1140	↓			

Shipment for SAS Complete? (Y / N): Y
Page: 1 of 2
Sample(s) to be Used for Laboratory QC:
Additional Sampler Signatures: First Sample: EBZA7
Chain of Custody Seal Number(s): 158583, 158582

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
[signature]	6-24-97 1730		Last Sample	SD6: EBZA7	EBZA9
	6/25/97 1020	[signature]		T Nun	6/26/97
		Received for Laboratory by: (Signature) [signature]	6/25/97 1020	Remarks: Is custody seal intact? (Y) / N / none	

DISTRIBUTION: White – Region Copy; Gold – Lab Copy for Return to Region; Yellow – Data User**; Pink – Lab Copy for Return to Data User**

EPA Form 9110-3

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

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A21-012-7 REV. 3/94

52490

EPA United States Enviromental Protection Agency
Contract Laboratory Program

Special Analytical Services Packing List/Chain of Custody

SAS No.

Case No. 5[illegible]5

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

2. Preservative (Enter in Column D)
   1. HCl
   2. HNO3
   3. NAHSO4
   4. H2SO4
   5. NAOH
   6. Ice Only
   7. Other (Specify in Column D)
   N. Not Preserved

2. Region No.: V
Sampling Co.: BVSPC
Sampler (Name): Steve MRKVICKA
Sampler Signature: [signature]

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

4. Date Shipped: 6-24-97
Carrier: Federal Express
Airbill Number: 5405965412

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

6. Date Received--Received by: [signature] 6/25/97 1020
Laboratory Contract Number: 68-D6-0061
Unit Price: 459.50

7. Transfer to:
Date Received
Received by
Contract Number
Price

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 Analysis	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Sampler Initials	J High Phases: Solids	Water-Miscible Liq.	Water-Immis Liq.
97ZB05S03	2	L	G	1	VOAs	5-155709,10	ACS-GW03-001	6-24-97 1425	SKM			
97ZB05S03	2	L	G	6	ABN	5-155707	↓	↓	↓			
97ZB05S03	2	L	G	6	Pest/PCBs	5-155708	↓	↓	↓			
97ZB05S04	2	L	G	1	VOAs	5-155715,6	ACS-GW04-001	6-24-97 1440	SRM			
97ZB05S04	2	L	G	6	ABN	5-155713	↓	↓	↓			
97ZB05S04	2	L	G	6	Pest/PCBs	5-155714	↓	↓	↓			
97ZB05TB01	4	L	G	1	VOAs	5-155739,40	ACS-TB01-201	6-24-97 1655	SRM			

First Sample: EBZ B3
Last Sample: EBZ B5

Shipment for SAS Complete? (Y) N
Page 2 of 2
Sample(s) to be Used for Laboratory QC
Additional Sampler Signatures: SD6: EBZA 7
Chain of Custody Seal Number(s): 158583, 158582

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
[signature]	6-24-97 1730		[signature]	6/26/97	
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
	6/25/97 1020	[signature]			
Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time	Remarks Is custody seal intact? (Y) / N / none	
		[signature]	6/25/97 1020		

A21-012-7 REV. 3/94

DISTRIBUTION: White – Region Copy; Gold – Lab Copy for Return to Region; Yellow – Data User**; Pink – Lab Copy for Return to Data User**

EPA Form 9110-3

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

**Data User means the organization w[illegible] ontracted the laboratory services

52 '92

SDG NARRATIVE

Client Name: US EPA

Project Number: 75100

CASE Number: 25525

Sample Delivery Group: EBZA7

Contract Number: 68-D6-0061

Batch Number(s): 100004466, 100004503

Narrative Date: July 8, 1997

Samples: EBZB0, EBZB2, EBZA7, EBZA8, EBZA9, EBZB3, EBZB4, EBZB5, EBZA0, EBZA1, EBZA2, EBZA3, EBYZ7, EBYZ8, EBYZ9, EBZB6, EBZB7, EBZB8

A total of eighteen samples were received by REI on June 25, 1997 through June 26, 1997, and were scheduled for Organics Analysis. Please refer to the following table for vital information that pertains to this case.

Table 1.0

SDG #: EBZA7

	SAMPLE ANALYZED			
	Actual Samples	QC Samples	Re-Run Samples	Total Billable Analyses
Volatile Analyses	18	1	0	19
Semivolatile Analyses	14	1	1	16
Pesticide/PCB Analyses	14	1	0	15

Total Analyses: 15 Full + 4 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 eighteen samples from Federal Express on June 25, 1997 through June 26, 1997. Standard Chain of Custody procedures were followed. The samples were stored at 4°C and/or chemically preserved as required by EPA protocol. The samples were scheduled for Full Organic Analysis. The sample identifications originally listed on the chain of custodies were incorrect. SMO was notified and provided a facsimile with the correct sample identifications on June 27, 1997.

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 Acetone near or below the CRQL. No Tentatively Identified Compounds (TIC) 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 samples revealed several positively detected Target Compounds. Several Tentatively Identified Compounds were detected in the samples. Please see FORM's I LCV for results.

Sample Extraction

The samples were continuous liquid-liquid extracted for Semivolatile analysis on June 25, 1997 through June 26, 1997. The samples were separatory funnel extracted for Pesticide/PCB analysis on June 26, 1997 and June 27, 1997. All extracts were processed according to CLP protocol without incident. Final extracts were given to the GC/MS and GC groups June 26, 1997 through June 28, 1997.

Sample Analysis - Semivolatile

Sample analysis was performed with two incidents 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 contain 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 samples revealed several positively detected Target compounds. Several TIC's were detected in the samples. Sample EBZA7 required reanalysis at a secondary dilution due to concentrations of detected analytes exceeding the linear range established by the calibration standards. Please see FORM's I LCSV-1, LCSV-2, and LCSV-TIC for results.

Sample Analysis - Pesticide/PCB

Sample analysis was performed with only one 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 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

Target analytes were found in several samples at concentrations near 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 7/8/97

Thomas H. Marshall DATE

Project Manager

THM

75100

2LCA

LOW CONC. WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

	EPA SAMPLE NO.	BFB %REC#	OTHER	TOT OUT
01	VBLK05	103		0
02	EBZB0	99		0
03	EBZB2	100		0
04	EBZA7	105		0
05	EBZA8	101		0
06	EBZA1	110		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.: 25525 SAS No.: SDG No.: EBZA7

	EPA SAMPLE NO.	BFB %REC#	OTHER	TOT OUT
01	VBLK06	105		0
02	EBZA2	97		0
03	EBZA3	104		0
04	EBYZ7	103		0
05	EBYZ8	100		0
06	EBYZ9	106		0
07	EBZB6	103		0
08	EBZB7	105		0
09	EBZB8	104		0
10	VLCS03	101		0
11	EBZA9	94		0
12	EBZB3	101		0
13	EBZB4	97		0
14	EBZB5	104		0
15	EBZA0	120		0
16	VHBLK03	112		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.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: VLCS03 LCS Lot No.: LA62539

Lab File ID: LCSG0702.D Date Analyzed: 7/2/97

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	66.80	134	60 - 140
1,2-Dichloroethane	50	56.10	112	60 - 140
Carbon Tetrachloride	50	46.70	93	60 - 140
1,2-Dichloropropane	50	46.80	94	60 - 140
cis 1,3-Dichloropropene	50	48.30	97	60 - 140
Trichloroethene	50	46.50	93	60 - 140
1,1,2-Trichloroethane	50	49.00	98	60 - 140
Benzene	50	43.90	88	60 - 140
Bromoform	50	42.10	84	60 - 140
Tetrachloroethene	50	44.90	90	60 - 140
1,2-Dibromoethane	50	47.80	96	60 - 140
1,4-Dichlorobenzene	50	43.90	88	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.

VBLK05

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: VBLK05 Date Analyzed: 07/01/97

Lab File ID: VWBG01G2.D Time Analyzed: 23:42

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	EBZB0	EBZB0	26504V.D	02:56
02	EBZB2	EBZB2	26505V.D	03:35
03	EBZA7	EBZA7	26506V.D	04:13
04	EBZA8	EBZA8	26507V.D	04:52
05	EBZA1	EBZA1	26633V.D	08:42

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.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: VBLK06 Date Analyzed: 07/02/97

Lab File ID: VWBG02G1.D Time Analyzed: 13:03

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	EBZA2	EBZA2	26634V.D	13:42
02	EBZA3	EBZA3	26635V.D	14:21
03	EBYZ7	EBYZ7	26636V.D	15:01
04	EBYZ8	EBYZ8	26637V.D	15:47
05	EBYZ9	EBYZ9	26638V.D	16:27
06	EBZB6	EBZB6	26639V.D	17:07
07	EBZB7	EBZB7	26640V.D	17:46
08	EBZB8	EBZB8	26641V.D	18:25
09	VLCS03	VLCS03	LCSG0702.D	19:05
10	EBZA9	EBZA9	26508VR.D	19:44
11	EBZB3	EBZB3	26509VR.D	20:23
12	EBZB4	EBZB4	26510VR.D	21:02
13	EBZB5	EBZB5	26511VR.D	21:41
14	EBZA0	EBZA0	26632VR.D	22:19
15	VHBLK03	VHBLK03	VHBLK03.D	22:58

COMMENTS:

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.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: VBLK05 Date Received:

Lab File ID: VWBG01G2.D Date Analyzed: 07/01/97

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	0.2	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	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.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: VBLK05 Date Received:

Lab File ID: VWBG01G2.D Date Analyzed: 07/01/97

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.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: VBLK06 Date Received:

Lab File ID: VWBG02G1.D Date Analyzed: 07/02/97

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	0.3	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	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.

VBLK06

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: VBLK06 Date Received:

Lab File ID: VWBG02G1.D Date Analyzed: 07/02/97

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

VHBLK03

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: VHBLK03 Date Received: 06/26/97

Lab File ID: VHBLK03.D Date Analyzed: 07/02/97

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	~~0.9~~ 2	JBU
67-64-1	Acetone	5	JBU
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

ST 7/14/97

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.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: VHBLK03 Date Received: 06/26/97

Lab File ID: VHBLK03.D Date Analyzed: 07/02/97

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

VLCS03

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: VLCS03 Date Received:

Lab File ID: LCSG0702.D Date Analyzed: 07/02/97

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	7	
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	5	
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	5	
71-43-2	Benzene	4	
10061-02-6	trans 1,3-Dichloropropene	1	U
75-25-2	Bromoform	4	
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	4	
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	4	
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.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: VLCS03 Date Received:

Lab File ID: LCSG0702.D Date Analyzed: 07/02/97

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

EBYZ7

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: EBYZ7 Date Received: 06/26/97

Lab File ID: 26636V.D Date Analyzed: 07/02/97

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	~~0.5~~	~~U~~ J
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~~	JBU
67-64-1	Acetone	5 ~~1~~	JBU
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	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

CWS 24/11/97

7/14/97

24

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EBYZ7

GW06
MW8

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: EBYZ7 Date Received: 06/26/97

Lab File ID: 26636V.D Date Analyzed: 07/02/97

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

EBYZ8

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: EBYZ8 Date Received: 06/26/97

Lab File ID: 26637V.D Date Analyzed: 07/02/97

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	
75-09-2	Methylene Chloride	2 ~~0.2~~	JB4
67-64-1	Acetone	5 ~~1~~	JB4
75-15-0	Carbon Disulfide	1 ~~0.2~~	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 ~~0.4~~	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	2	
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	1.0	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

ST 7/14/97

CWB 08/11/97

CWB 08/11/97

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EBYZ8

GW07
MW15

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: EBYZ8 Date Received: 06/26/97

Lab File ID: 26637V.D Date Analyzed: 07/02/97

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

EBYZ9

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: EBYZ9 Date Received: 06/26/97

Lab File ID: 26638V.D Date Analyzed: 07/02/97

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	
75-09-2	Methylene Chloride	~~2.0~~	JB U
67-64-1	Acetone	5 ~~1~~	JB U
75-15-0	Carbon Disulfide	1 ~~0.4~~	~~J~~ 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	2	
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	1.0	J
108-90-7	Chlorobenzene	0.2	J
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

ST 7/14/97
CWB 09/11/97

1LCE

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

EPA SAMPLE NO.

EBYZ9

GW07 duplicate MW15

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: EBYZ9 Date Received: 06/26/97

Lab File ID: 26638V.D Date Analyzed: 07/02/97

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

EBZA0

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: EBZA0 Date Received: 06/26/97

Lab File ID: 26632VR.D Date Analyzed: 07/02/97

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	1 ~~0.3~~	JBU
67-64-1	Acetone	5 ~~6~~	JBU
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

ST 7/14/97

54

GW09

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EBZA0

MW38

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: EBZA0 Date Received: 06/26/97

Lab File ID: 26632VR.D Date Analyzed: 07/02/97

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

EBZA1

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: EBZA1 Date Received: 06/26/97

Lab File ID: 26633V.D Date Analyzed: 07/02/97

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	0.4	J
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 ~~0.2~~	JB U
67-64-1	Acetone	10	B U
75-15-0	Carbon Disulfide	0.4	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	0.7	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

ST 7/14/97

60

RB02
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1LCE

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

EPA SAMPLE NO.

EBZA1

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: EBZA1 Date Received: 06/26/97

Lab File ID: 26633V.D Date Analyzed: 07/02/97

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

EBZA2

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: EBZA2 Date Received: 06/26/97

Lab File ID: 26634V.D Date Analyzed: 07/02/97

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	2 ~~0.4~~	JB U
67-64-1	Acetone	5 ~~3~~	JB 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	0.2	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

ST 7/14/97

GW1P

MW18

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EBZA2

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: EBZA2 Date Received: 06/26/97

Lab File ID: 26634V.D Date Analyzed: 07/02/97

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

EBZA3

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: EBZA3 Date Received: 06/26/97

Lab File ID: 26635V.D Date Analyzed: 07/02/97

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	2 ~~0.7~~	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

ST 7/14/97

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EBZA3

TB04 trip blank

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: EBZA3 Date Received: 06/26/97

Lab File ID: 26635V.D Date Analyzed: 07/02/97

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

EBZA7

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: EBZA7 Date Received: 06/25/97

Lab File ID: 26506V.D Date Analyzed: 07/02/97

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	0.4	J
75-00-3	Chloroethane	1	U
75-09-2	Methylene Chloride	2	U
67-64-1	Acetone	5 ~~2~~	JB 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	0.6	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	
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

SR 7/14/97

1LCE

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

EPA SAMPLE NO.

EBZA7

GW01
MW46

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: EBZA7 Date Received: 06/25/97

Lab File ID: 26506V.D Date Analyzed: 07/02/97

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. 000108-20-3	Diisopropyl ether	9.32	8	JN

1LCA

EPA SAMPLE NO.

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EBZA8

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: EBZA8 Date Received: 06/25/97

Lab File ID: 26507V.D Date Analyzed: 07/02/97

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	2	U
67-64-1	Acetone	5 ~~8~~	JBU
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	0.3	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

JT 7/14/97

91

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EBZA8

GW02

MW50

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: EBZA8 Date Received: 06/25/97

Lab File ID: 26507V.D Date Analyzed: 07/02/97

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

92

1LCA

EPA SAMPLE NO.

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EBZA9

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: EBZA9 Date Received: 06/25/97

Lab File ID: 26508VR.D Date Analyzed: 07/02/97

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	0.3	J
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 4
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	0.3	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

SF 7/14/97

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EBZA9

GW02 duplicate

MW50 duplicate

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: EBZA9 Date Received: 06/25/97

Lab File ID: 26508VR.D Date Analyzed: 07/02/97

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

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBZB0

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: EBZB0 Date Received: 06/25/97

Lab File ID: 26504V.D Date Analyzed: 07/02/97

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	2 ~~0.3~~	JB U
67-64-1	Acetone	5 ~~3~~	JB U
75-15-0	Carbon Disulfide	1 ~~0.2~~	~~J~~ 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	0.2	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	0.3	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

ST 7/14/97 CWB 04/11/97

104

GW05
MW23

1LCE

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

EPA SAMPLE NO.

EBZB0

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: EBZB0 Date Received: 06/25/97

Lab File ID: 26504V.D Date Analyzed: 07/02/97

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

EBZB2

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: EBZB2 Date Received: 06/25/97

Lab File ID: 26505V.D Date Analyzed: 07/02/97

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	2 ~~0.6~~	JB U
67-64-1	Acetone	5 ~~2~~	JB 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

ST 7/14/97

113

TBQ2
trip blank

1LCE

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

EPA SAMPLE NO.

EBZB2

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: EBZB2 Date Received: 06/25/97

Lab File ID: 26505V.D Date Analyzed: 07/02/97

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

EBZB3

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: EBZB3 Date Received: 06/25/97

Lab File ID: 26509VR.D Date Analyzed: 07/02/97

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	0.3	J
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	0.4	J
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	0.4	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

GWD3
MW11

1LCE

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

EPA SAMPLE NO.

EBZB3

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: EBZB3 Date Received: 06/25/97

Lab File ID: 26509VR.D Date Analyzed: 07/02/97

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

120

1LCA

EPA SAMPLE NO.

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EBZB4

GW04
MW28

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: EBZB4 Date Received: 06/25/97

Lab File ID: 26510VR.D Date Analyzed: 07/02/97

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	0.4	J
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 ~~2~~	JB 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	0.3	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

ST 7/14/97

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EBZB4

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: EBZB4 Date Received: 06/25/97

Lab File ID: 26510VR.D Date Analyzed: 07/02/97

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

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBZB5

TB01 trip blank

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: EBZB5 Date Received: 06/25/97

Lab File ID: 26511VR.D Date Analyzed: 07/02/97

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	2 ~~0.7~~	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

7/14/97 CWS 09/11/97

33

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EBZB5

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: EBZB5 Date Received: 06/25/97

Lab File ID: 26511VR.D Date Analyzed: 07/02/97

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.

RB01 rinsate blank

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EBZB6

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: EBZB6 Date Received: 06/26/97

Lab File ID: 26639V.D Date Analyzed: 07/02/97

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	R ~~0.3~~	JB U
67-64-1	Acetone	7	B U
75-15-0	Carbon Disulfide	4	
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	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

ST 7/14/97

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EBZB6

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: EBZB6 Date Received: 06/26/97

Lab File ID: 26639V.D Date Analyzed: 07/02/97

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.

GW08 MW37

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EBZB7

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: EBZB7 Date Received: 06/26/97

Lab File ID: 26640V.D Date Analyzed: 07/02/97

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	2 ~~0.2~~	JB U
67-64-1	Acetone	5 ~~4~~	JB 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 ~~0.3~~	J 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	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

SR 7/14/97

CWB 09/11/97

1LCE

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

EPA SAMPLE NO.

EBZB7

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: EBZB7 Date Received: 06/26/97

Lab File ID: 26640V.D Date Analyzed: 07/02/97

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

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBZB8

TB03 trip blank

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: EBZB8 Date Received: 06/26/97

Lab File ID: 26641V.D Date Analyzed: 07/02/97

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	~~0.3~~ 1	~~J~~ 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	~~0.9~~ 1	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	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

CMB 7/9/97

JB 7/14/97

1LCE

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

EPA SAMPLE NO.

EBZB4

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: EBZB4 Date Received: 06/25/97

Lab File ID: 26510VR.D Date Analyzed: 07/02/97

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.: 25525 SAS No.: _____ SDG No.: EBZA7

	EPA SAMPLE NO.	S1 NBZ #	S2 FBP #	S3 TPH #	S4 PHL #	S5 2-FP #	S6 TBP #	TOT OUT
01	SBLKE9	78	75	80	75	68	52	0
02	EBZB0	79	82	92	83	77	66	0
03	EBZA7	79	79	83	81	63	64	0
04	EBZA8	79	74	65	80	75	61	0
05	EBZA9	75	74	64	76	70	62	0
06	EBZB3	78	76	80	78	75	62	0
07	EBZB4	76	71	62	74	69	57	0
08	EBZA7DL	38	41	39	40	38	32	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.: 25525 SAS No.: _____ SDG No.: EBZA7

	EPA SAMPLE NO.	S1 NBZ #	S2 FBP #	S3 TPH #	S4 PHL #	S5 2-FP #	S6 TBP #	TOT OUT
01	SBLKF2	80	70	82	82	75	58	0
02	SLCSD2	70	64	78	74	67	51	0
03	EBZA0	80	79	79	81	76	65	0
04	EBZA1	79	76	75	79	71	59	0
05	EBZA2	72	71	77	72	66	56	0
06	EBYZ7	74	73	83	73	69	58	0
07	EBYZ8	73	74	86	72	69	61	0
08	EBYZ9	75	76	85	70	69	60	0
09	EBZB6	68	68	76	66	63	55	0
10	EBZB7	68	68	79	67	65	55	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.

SLCSD2

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: _____ SDG No.: EBZA7

Lab Sample ID: SLCSD2 LCS Lot No.: MB102C

Lab File ID: SLCSD2.D Date Extracted 06/26/97

LCS Aliquot: 10.0 (ul) Date Analyzed: 6/29/97

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

Injection Volume: 1 (ul)

COMPOUND	AMOUNT ADDED (ng)	AMOUNT RECOVERED (ng)	% REC #	QC LIMITS
Phenol	40	26.00	65	40 - 120
bis(2-Chloroethyl) ether	20	14.60	73	50 - 110
2-Chlorophenol	40	28.30	71	50 - 110
n-Nitroso-di-n-propylamine	20	14.20	71	30 - 110
Hexachloroethane	20	12.70	64	20 - 110
Isophorone	20	12.60	63	50 - 110
Naphthalene	20	13.60	68	30 - 110
4-Chloroaniline	40	17.40	44	10 - 120
2,4,6-Trichlorophenol	40	24.60	62	40 - 120
2,4-Dinitrotoluene	20	11.60	58	30 - 120
Diethylphthalate	20	15.40	77	50 - 120
n-Nitrosodiphenylamine	20	13.90	70	30 - 110
Hexachlorobenzene	20	14.80	74	40 - 120
Benzo(a) pyrene	20	13.80	69	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.

SBLKE9

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: _____ SDG No.: EBZA7

Lab Sample ID: SBLKE9 Date Extracted: 6/25/97

Lab File ID: SBLKE9.D Date Analyzed: 06/27/97

Instrument ID: 5971-024 Time Analyzed: 20:15

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND LCS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	EBZB0	EBZB0	26504B.D	06/27/97
02	EBZA7	EBZA7	26506B.D	06/27/97
03	EBZA8	EBZA8	26507B.D	06/27/97
04	EBZA9	EBZA9	26508B.D	06/28/97
05	EBZB3	EBZB3	26509B.D	06/28/97
06	EBZB4	EBZB4	26510B.D	06/28/97
07	EBZA7DL	EBZA7DL	26506DL.D	06/30/97

COMMENTS:

4LCB

LOW CONC. WATER SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLKF2

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: _____ SDG No.: EBZA7

Lab Sample ID: SBLKF2 Date Extracted: 6/26/97

Lab File ID: SBLKF2.D Date Analyzed: 06/29/97

Instrument ID: 5971-024 Time Analyzed: 19:57

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND LCS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	SLCSD2	SLCSD2	SLCSD2.D	06/29/97
02	EBZA0	EBZA0	26632B.D	06/30/97
03	EBZA1	EBZA1	26633B.D	06/30/97
04	EBZA2	EBZA2	26634B.D	06/30/97
05	EBYZ7	EBYZ7	26636B.D	06/30/97
06	EBYZ8	EBYZ8	26637B.D	06/30/97
07	EBYZ9	EBYZ9	26638B.D	06/30/97
08	EBZB6	EBZB6	26639B.D	06/30/97
09	EBZB7	EBZB7	26640B.D	06/30/97

COMMENTS:

1LCB

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SBLKE9

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: SBLKE9 Date Received:

Lab File ID: SBLKE9.D Date Extracted: 06/25/97

Sample Volume: 1000 (ML) Date Analyzed: 06/27/97

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

SBLKE9

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: SBLKE9 Date Received:

Lab File ID: SBLKE9.D Date Extracted: 06/25/97

Sample Volume: 1000 (ML) Date Analyzed: 06/27/97

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.

SBLKE9

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: _____ SDG No.: EBZA7

Lab Sample ID: SBLKE9 Date Received: _____

Lab File ID: SBLKE9.D Date Extracted: 06/25/97

Sample Volume: 1000 (ML) Date Analyzed: 06/27/97

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

SBLKF2

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: _____ SDG No.: EBZA7

Lab Sample ID: SBLKF2 Date Received: _____

Lab File ID: SBLKF2.D Date Extracted: 06/26/97

Sample Volume: 1000 (ML) Date Analyzed: 06/29/97

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

SBLKF2

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: _____ SDG No.: EBZA7

Lab Sample ID: SBLKF2 Date Received: _____

Lab File ID: SBLKF2.D Date Extracted: 06/26/97

Sample Volume: 1000 (ML) Date Analyzed: 06/29/97

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.

SBLKF2

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: SBLKF2 Date Received:

Lab File ID: SBLKF2.D Date Extracted: 06/26/97

Sample Volume: 1000 (ML) Date Analyzed: 06/29/97

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

SLCSD2

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: SLCSD2 Date Received:

Lab File ID: SLCSD2.D Date Extracted: 06/26/97

Sample Volume: 1000 (ML) Date Analyzed: 06/29/97

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	26	
111-44-4	bis(2-Chloroethyl) ether	15	
95-57-8	2-Chlorophenol	28	
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	13	
98-95-3	Nitrobenzene	5	U
78-59-1	Isophorone	13	
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	17	
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	25	
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

SLCSD2

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: _____ SDG No.: EBZA7

Lab Sample ID: SLCSD2 Date Received: _____

Lab File ID: SLCSD2.D Date Extracted: 06/26/97

Sample Volume: 1000 (ML) Date Analyzed: 06/29/97

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	12	
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	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	14	
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.

SLCSD2

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: _____ SDG No.: EBZA7

Lab Sample ID: SLCSD2 Date Received: _____

Lab File ID: SLCSD2.D Date Extracted: 06/26/97

Sample Volume: 1000 (ML) Date Analyzed: 06/29/97

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

EBYZ7

MW8

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: _____ SDG No.: EBZA7

Lab Sample ID: EBYZ7 Date Received: 06/26/97

Lab File ID: 26636B.D Date Extracted: 06/26/97

Sample Volume: 1000 (ML) Date Analyzed: 06/30/97

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

1LCF

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EBYZ7

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: _____ SDG No.: EBZA7

Lab Sample ID: EBYZ7 Date Received: 06/26/97

Lab File ID: 26636B.D Date Extracted: 06/26/97

Sample Volume: 1000 (ML) Date Analyzed: 06/30/97

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.

MW15

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EBYZ8

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: _____ SDG No.: EBZA7

Lab Sample ID: EBYZ8 Date Received: 06/26/97

Lab File ID: 26637B.D Date Extracted: 06/26/97

Sample Volume: 1000 (ML) Date Analyzed: 06/30/97

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	13	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

CWB 7/1/97

1LCC

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EBYZ8

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: EBYZ8 Date Received: 06/26/97

Lab File ID: 26637B.D Date Extracted: 06/26/97

Sample Volume: 1000 (ML) Date Analyzed: 06/30/97

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	15	
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.

MW15

EBYZ8

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: _____ SDG No.: EBZA7

Lab Sample ID: EBYZ8 Date Received: 06/26/97

Lab File ID: 26637B.D Date Extracted: 06/26/97

Sample Volume: 1000 (ML) Date Analyzed: 06/30/97

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.	unknown	10.22	15	J
2.	unknown	15.94	15	J

1LCB

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EBYZ9

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: EBYZ9 Date Received: 06/26/97

Lab File ID: 26638B.D Date Extracted: 06/26/97

Sample Volume: 1000 (ML) Date Analyzed: 06/30/97

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	12	J
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

Calc 09/11/97

1LCC

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBYZ9

MW15 duplicate

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: EBYZ9 Date Received: 06/26/97

Lab File ID: 26638B.D Date Extracted: 06/26/97

Sample Volume: 1000 (ML) Date Analyzed: 06/30/97

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	14	
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.

EBYZ9

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: _____ SDG No.: EBZA7

Lab Sample ID: EBYZ9 Date Received: 06/26/97

Lab File ID: 26638B.D Date Extracted: 06/26/97

Sample Volume: 1000 (ML) Date Analyzed: 06/30/97

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.	unknown	10.22	13	J
2.	unknown	15.93	14	J

1LCB

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EBZA0

MW38

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: EBZA0 Date Received: 06/26/97

Lab File ID: 26632B.D Date Extracted: 06/26/97

Sample Volume: 1000 (ML) Date Analyzed: 06/30/97

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	6	J
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

09/11/97

1LCC

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EBZA0

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: EBZA0 Date Received: 06/26/97

Lab File ID: 26632B.D Date Extracted: 06/26/97

Sample Volume: 1000 (ML) Date Analyzed: 06/30/97

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.

EBZA0

MW 38

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: EBZA0 Date Received: 06/26/97

Lab File ID: 26632B.D Date Extracted: 06/26/97

Sample Volume: 1000 (ML) Date Analyzed: 06/30/97

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

EBZA1

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: _____ SDG No.: EBZA7

Lab Sample ID: EBZA1 Date Received: 06/26/97

Lab File ID: 26633B.D Date Extracted: 06/26/97

Sample Volume: 1000 (ML) Date Analyzed: 06/30/97

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	4	J
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.

EBZA1

RB02 rinsate blank

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: EBZA1 Date Received: 06/26/97

Lab File ID: 26633B.D Date Extracted: 06/26/97

Sample Volume: 1000 (ML) Date Analyzed: 06/30/97

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	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

1LCF

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EBZA1

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: EBZA1 Date Received: 06/26/97

Lab File ID: 26633B.D Date Extracted: 06/26/97

Sample Volume: 1000 (ML) Date Analyzed: 06/30/97

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. 000080-05-7	Phenol, 4,4'-(1-methylethylidene)bis-	26.73	19	JN

1LCB

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EBZA2

MW18

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: EBZA2 Date Received: 06/26/97

Lab File ID: 26634B.D Date Extracted: 06/26/97

Sample Volume: 1000 (ML) Date Analyzed: 06/30/97

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	6	J
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

CWB 09/11/97

1LCC

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EBZA2

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: _____ SDG No.: EBZA7

Lab Sample ID: EBZA2 Date Received: 06/26/97

Lab File ID: 26634B.D Date Extracted: 06/26/97

Sample Volume: 1000 (ML) Date Analyzed: 06/30/97

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

1LCB

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EBZA7DL

MW46

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: EBZA7DL Date Received: 06/25/97

Lab File ID: 26506DL.D Date Extracted: 06/25/97

Sample Volume: 1000 (ML) Date Analyzed: 06/30/97

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

Injection Volume: 1.0 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl) ether	4	JD
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

EBZA7DL

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: EBZA7DL Date Received: 06/25/97

Lab File ID: 26506DL.D Date Extracted: 06/25/97

Sample Volume: 1000 (ML) Date Analyzed: 06/30/97

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	91	D
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

1LCC

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBZA7

MW46

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: EBZA7 Date Received: 06/25/97

Lab File ID: 26506B.D Date Extracted: 06/25/97

Sample Volume: 1000 (ML) Date Analyzed: 06/27/97

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	89	E
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.

EBZA7

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: EBZA7 Date Received: 06/25/97

Lab File ID: 26506B.D Date Extracted: 06/25/97

Sample Volume: 1000 (ML) Date Analyzed: 06/27/97

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

1LCF

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EBZA7DL

MW46

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: EBZA7DL Date Received: 06/25/97

Lab File ID: 26506DL.D Date Extracted: 06/25/97

Sample Volume: 1000 (ML) Date Analyzed: 06/30/97

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

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

EBZA8

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: EBZA8 Date Received: 06/25/97

Lab File ID: 26507B.D Date Extracted: 06/25/97

Sample Volume: 1000 (ML) Date Analyzed: 06/27/97

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	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)	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.

MW50

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EBZA8

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: EBZA8 Date Received: 06/25/97

Lab File ID: 26507B.D Date Extracted: 06/25/97

Sample Volume: 1000 (ML) Date Analyzed: 06/27/97

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	66	
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.

EBZA8

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: EBZA8 Date Received: 06/25/97

Lab File ID: 26507B.D Date Extracted: 06/25/97

Sample Volume: 1000 (ML) Date Analyzed: 06/27/97

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. 000075-84-3	1-Propanol, 2,2-dimethyl-	10.36	68	JN
2. 000101-10-0	Propanoic acid, 2-(3-chlorophenoxy)-	18.76	11	JN

1LCB

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EBZA9

MW50 duplicate

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: _____ SDG No.: EBZA7

Lab Sample ID: EBZA9 Date Received: 06/25/97

Lab File ID: 26508B.D Date Extracted: 06/25/97

Sample Volume: 1000 (ML) Date Analyzed: 06/28/97

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	21	
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.

EBZA9

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: _____ SDG No.: EBZA7

Lab Sample ID: EBZA9 Date Received: 06/25/97

Lab File ID: 26508B.D Date Extracted: 06/25/97

Sample Volume: 1000 (ML) Date Analyzed: 06/28/97

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	19	
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.

EBZA9

MW50 Duplicate

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: EBZA9 Date Received: 06/25/97

Lab File ID: 26508B.D Date Extracted: 06/25/97

Sample Volume: 1000 (ML) Date Analyzed: 06/28/97

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. 000075-84-3	1-Propanol, 2,2-dimethyl-	10.41	69	JN
2. 000101-10-0	Propanoic acid, 2-(3-chlorophenoxy)-	18.77	13	JN

1LCB

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EBZB0

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: EBZB0 Date Received: 06/25/97

Lab File ID: 26504B.D Date Extracted: 06/25/97

Sample Volume: 1000 (ML) Date Analyzed: 06/27/97

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	7	
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

EBZB0

MW23

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: EBZB0 Date Received: 06/25/97

Lab File ID: 26504B.D Date Extracted: 06/25/97

Sample Volume: 1000 (ML) Date Analyzed: 06/27/97

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 ~~1~~	~~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

CWJ 09/11/97

(1) - Cannot be separated from Diphenylamine

1LCF

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EBZB0

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: _____ SDG No.: EBZA7

Lab Sample ID: EBZB0 Date Received: 06/25/97

Lab File ID: 26504B.D Date Extracted: 06/25/97

Sample Volume: 1000 (ML) Date Analyzed: 06/27/97

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

EBZB3

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: _____ SDG No.: EBZA7

MW11

Lab Sample ID: EBZB3 Date Received: 06/25/97

Lab File ID: 26509B.D Date Extracted: 06/25/97

Sample Volume: 1000 (ML) Date Analyzed: 06/28/97

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

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBZB3

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: _____ SDG No.: EBZA7

Lab Sample ID: EBZB3 Date Received: 06/25/97

Lab File ID: 26509B.D Date Extracted: 06/25/97

Sample Volume: 1000 (ML) Date Analyzed: 06/28/97

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 ~~4~~	~~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

CWB 09/6/97

(1) - Cannot be separated from Diphenylamine

1LCF

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EBZB3

MW11

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: _____ SDG No.: EBZA7

Lab Sample ID: EBZB3 Date Received: 06/25/97

Lab File ID: 26509B.D Date Extracted: 06/25/97

Sample Volume: 1000 (ML) Date Analyzed: 06/28/97

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	7.13	12	J

1LCB

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EBZB4

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: _____ SDG No.: EBZA7

Lab Sample ID: EBZB4 Date Received: 06/25/97

Lab File ID: 26510B.D Date Extracted: 06/25/97

Sample Volume: 1000 (ML) Date Analyzed: 06/28/97

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	73	
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

EBZB4

MW28

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: EBZB4 Date Received: 06/25/97

Lab File ID: 26510B.D Date Extracted: 06/25/97

Sample Volume: 1000 (ML) Date Analyzed: 06/28/97

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	14	
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.

EBZB4

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: EBZB4 Date Received: 06/25/97

Lab File ID: 26510B.D Date Extracted: 06/25/97

Sample Volume: 1000 (ML) Date Analyzed: 06/28/97

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	7.13	12	J
2. 000104-76-7	1-Hexanol, 2-ethyl-	8.58	18	JN
3. 000112-34-5	Ethanol, 2-(2-butoxyethoxy)-	11.83	20	JN

1LCB

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EBZB6

RB01 rinsate blank

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: EBZB6 Date Received: 06/26/97

Lab File ID: 26639B.D Date Extracted: 06/26/97

Sample Volume: 1000 (ML) Date Analyzed: 06/30/97

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

EBZB6

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: EBZB6 Date Received: 06/26/97

Lab File ID: 26639B.D Date Extracted: 06/26/97

Sample Volume: 1000 (ML) Date Analyzed: 06/30/97

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.

EBZB6

RB01 Minute blank

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: _____ SDG No.: EBZA7

Lab Sample ID: EBZB6 Date Received: 06/26/97

Lab File ID: 26639B.D Date Extracted: 06/26/97

Sample Volume: 1000 (ML) Date Analyzed: 06/30/97

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. 000080-05-7	Phenol, 4,4'-(1-methylethylidene)bis-	26.72	11	JN

1LCB

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EBZB7

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: _____ SDG No.: EBZA7

Lab Sample ID: EBZB7 Date Received: 06/26/97

Lab File ID: 26640B.D Date Extracted: 06/26/97

Sample Volume: 1000 (ML) Date Analyzed: 06/30/97

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	14	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

CWB 02/11/97

1LCF

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EBZB7

MW37

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: EBZB7 Date Received: 06/26/97

Lab File ID: 26640B.D Date Extracted: 06/26/97

Sample Volume: 1000 (ML) Date Analyzed: 06/30/97

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

2LCC
LOW CONC. WATER PESTICIDE SURROGATE RECOVERY

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

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	EBYZ7	70	75	85	80			0
02	EBYZ8	90	85	70	70			0
03	EBYZ9	90	80	65	65			0
04	EBZA0	80	85	75	75			0
05	EBZA1	75	80	95	90			0
06	EBZA2	70	75	105	100			0
07	EBZA7	65	85	50	50			0
08	EBZA8	90	70	48	43			0
09	EBZA9	90	70	50	46			0
10	EBZB0	70	70	80	80			0
11	EBZB3	75	75	75	70			0
12	EBZB4	85	80	50	44			0
13	EBZB6	70	75	70	65			0
14	EBZB7	70	70	70	70			0
15	PBLKF1	80	80	105	95			0
16	PBLKF3	75	80	70	65			0
17	PLCSD1	75	75	100	95			0
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.

PLCSD1

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: LCS062697 LCS Lot No.: A006181

LCS Aliquot: 1000 (uL) Date Extracted: 06/26/97

Concentrated Extract Volume: 2000(uL) Date Analyzed: 06/26/97

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	0.048	96	50-120
Heptachlor epoxide	0.050	0.044	88	50-150
Dieldrin	0.10	0.098	98	30-130
4,4'-DDE	0.10	0.11	110	50-150
Endrin	0.10	0.12	120	50-120
Endosulfan sulfate	0.10	0.096	96	50-120
gamma-Chlordane	0.050	0.050	100	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	0.044	88	50-150
Dieldrin	0.10	0.096	96	30-130
4,4'-DDE	0.10	0.095	95	50-150
Endrin	0.10	0.11	110	50-120
Endosulfan sulfate	0.10	0.096	96	50-120
gamma-Chlordane	0.050	0.048	96	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.

PBLKF1

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Date Extracted: 06/26/97 Lab Sample ID: MB062697

Date Analyzed (1): 06/26/97 Date Analyzed (2): 06/26/97

Time Analyzed (1): 1617 Time Analyzed (2): 1617

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	EBZA7	26506	06/26/97	06/26/97
02	EBZA8	26507	06/26/97	06/26/97
03	EBZA9	26508	06/26/97	06/26/97
04	EBZB0	26504	06/26/97	06/26/97
05	EBZB3	26509	06/26/97	06/26/97
06	EBZB4	26510	06/26/97	06/26/97
07	PLCSD1	LCS062697	06/26/97	06/26/97
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.

PBLKF3

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Date Extracted: 06/30/97 Lab Sample ID: MB062797

Date Analyzed (1): 07/01/97 Date Analyzed (2): 07/01/97

Time Analyzed (1): 1716 Time Analyzed (2): 1716

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	EBYZ7	26636	07/01/97	07/01/97
02	EBYZ8	26637	07/01/97	07/01/97
03	EBYZ9	26638	07/01/97	07/01/97
04	EBZA0	26632	07/01/97	07/01/97
05	EBZA1	26633	07/01/97	07/01/97
06	EBZA2	26634	07/01/97	07/01/97
07	EBZB6	26639	07/01/97	07/01/97
08	EBZB7	26640	07/01/97	07/01/97
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.

PBLKF1

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: MB062697 Date Received:

Sample Volume: 1000.00 (mL) Date Extracted: 06/26/97

Concentrated Extract Volume: 2000(uL) Date Analyzed: 06/26/97

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.

PBLKF3

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: MB062797 Date Received:

Sample Volume: 1000.00 (mL) Date Extracted: 06/30/97

Concentrated Extract Volume: 2000(uL) Date Analyzed: 07/01/97

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.

PLCSD1(1)

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: LCS062697 Date Received:

Sample Volume: 1000.00 (mL) Date Extracted: 06/26/97

Concentrated Extract Volume: 2000(uL) Date Analyzed: 06/26/97

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)	0.096	
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.089	
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.20	
72-55-9	4,4'-DDE	0.22	
72-20-8	Endrin	0.24	
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.19	
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	0.10	
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.

PLCSD1(2)

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: LCS062697 Date Received:

Sample Volume: 1000.00 (mL) Date Extracted: 06/26/97

Concentrated Extract Volume: 2000(uL) Date Analyzed: 06/26/97

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	0.088	
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.19	
72-55-9	4,4'-DDE	0.19	
72-20-8	Endrin	0.22	
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.19	
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	0.096	
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	0.50	U

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LOW CONC. WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBYZ7

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7 MW

Lab Sample ID: 26636 Date Received: 06/26/97

Sample Volume: 1000.00 (mL) Date Extracted: 06/30/97

Concentrated Extract Volume: 2000(uL) Date Analyzed: 07/01/97

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

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LOW CONC. WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBYZ8

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7 MW15

Lab Sample ID: 26637 Date Received: 06/26/97

Sample Volume: 1000.00 (mL) Date Extracted: 06/30/97

Concentrated Extract Volume: 2000(uL) Date Analyzed: 07/01/97

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

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LOW CONC. WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBYZ9

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

MW15 dup.

Lab Sample ID: 26638 Date Received: 06/26/97

Sample Volume: 1000.00 (mL) Date Extracted: 06/30/97

Concentrated Extract Volume: 2000(uL) Date Analyzed: 07/01/97

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.

EBZA0

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

MW38

Lab Sample ID: 26632 Date Received: 06/26/97

Sample Volume: 1000.00 (mL) Date Extracted: 06/30/97

Concentrated Extract Volume: 2000(uL) Date Analyzed: 07/01/97

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

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LOW CONC. WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBZA1

RB02

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

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Lab Sample ID: 26633 Date Received: 06/26/97

Sample Volume: 1000.00 (mL) Date Extracted: 06/30/97

Concentrated Extract Volume: 2000(uL) Date Analyzed: 07/01/97

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

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LOW CONC. WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBZA2

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: 26634 Date Received: 06/26/97

Sample Volume: 1000.00 (mL) Date Extracted: 06/30/97

Concentrated Extract Volume: 2000(uL) Date Analyzed: 07/01/97

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

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LOW CONC. WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBZA7

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

MW46

Lab Sample ID: 26506 Date Received: 06/25/97

Sample Volume: 1000.00 (mL) Date Extracted: 06/26/97

Concentrated Extract Volume: 2000(uL) Date Analyzed: 06/26/97

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

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LOW CONC. WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBZA8

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

MW50

Lab Sample ID: 26507 Date Received: 06/25/97

Sample Volume: 1000.00 (mL) Date Extracted: 06/26/97

Concentrated Extract Volume: 2000(uL) Date Analyzed: 06/26/97

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	0.013	J
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.

EBZA9

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

MW50 dup.

Lab Sample ID: 26508 Date Received: 06/25/97

Sample Volume: 1000.00 (mL) Date Extracted: 06/26/97

Concentrated Extract Volume: 2000(uL) Date Analyzed: 06/26/97

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	0.012	JP
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.

EBZB0

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: 26504 Date Received: 06/25/97 MW23

Sample Volume: 1000.00 (mL) Date Extracted: 06/26/97

Concentrated Extract Volume: 2000(uL) Date Analyzed: 06/26/97

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.

EBZB3

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

MW11

Lab Sample ID: 26509 Date Received: 06/25/97

Sample Volume: 1000.00 (mL) Date Extracted: 06/26/97

Concentrated Extract Volume: 2000 (uL) Date Analyzed: 06/26/97

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.

EBZB6

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: 26639 Date Received: 06/26/97

Sample Volume: 1000.00 (mL) Date Extracted: 06/30/97

Concentrated Extract Volume: 2000(uL) Date Analyzed: 07/01/97

Injection Volume: 1 (uL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) Y Extraction: (SepF/Cont) SEPF

rinsate blank RB01

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.

EBZB4

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: 26510 Date Received: 06/25/97

Sample Volume: 1000.00 (mL) Date Extracted: 06/26/97

Concentrated Extract Volume: 2000(uL) Date Analyzed: 06/26/97

Injection Volume: 1 (uL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) Y Extraction: (SepF/Cont) SEPF

MW28

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	0.021	P
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.

EBZB7

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

MW37

Lab Sample ID: 26640 Date Received: 06/26/97

Sample Volume: 1000.00 (mL) Date Extracted: 06/30/97

Concentrated Extract Volume: 2000(uL) Date Analyzed: 07/01/97

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

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: 25525 Site Name Location: American Chem Svc

Contractor or EPA Lab: REI (Rollins) Data User: B+V

No. of Samples: 18 Date Sampled or Data Received: 7-10-97

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: 18 No. of samples received: 18

Received by: Lynette Burnett Date: 7-10-97

Received by LSSS: Lynette Burnett Date: 7-10-97

Review started: 7/11/97 Reviewer Signature: Stephanie N Tohn

Total time spent on review: 22 hrs Date review completed: 7-15-97

Copied by: Lynette Burnett Date: 7-24-97

Mailed to user by: Lynette Burnett Date: 7-24-97

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: _____

NARRATIVE

LABORATORY: REI
CASE: 25525
SDG: EBZA4
SITE: American Chemical Services

The water samples (EBZC0-4, EBZA4-6, EBZB9) were collected on 06/25-26/97. The laboratory received nine (9) low level water samples on 06/27/97 in good condition for organic analytes following the SOW OLC02.1. Samples EBZC1 and EBZC4 were analyzed for the list of VOA analytes only. The remaining samples were analyzed for the full list of organic analytes. No DC-2 was included with the data package.

VLCS21, SLCSD5, PLCSD4 were identified as the Laboratory Control Samples For the VOA, SVOA and Pest/PCB fractions, respectively.

Samples EBZC1 and EBZC4 were identified as the trip blanks. None of the samples in this dataset were identified as the field duplicates.

The VOA samples were analyzed within the holding time of fourteen (14) days for the preserved water samples. The SVOA and Pest/PCB samples were extracted within the holding time of seven (7) days for the water samples. The sample extracts were analyzed within forty (40) days following the extraction.

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

Reviewed by: Steffanie N. Tobin__Lockheed/ESAT
Date:__July 22nd, 1997__

Pg 1 of 1

Region 5 Transmittal Form

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE:

SUBJECT: Review of Region V CLP Data
Received for Review on July 14, 1997

FROM: Stephen L. Ostrodka, Chief (HSRL-5J) for Steve Ostrodka
Superfund Technical Support Section Richard L Byrnes 7/24/97

TO: Data User: B+V

We have reviewed the data for the following case:

SITE NAME: American Chem. SVCS (IN)

CASE NUMBER: 25525 SDG NUMBER: EBZA4

Number and Type of Samples: 9 (water)

Sample Numbers: EBZA4-6 EBZB9 EBZC0-4

Laboratory: Rollins Hrs. for Review: 8 hrs w/w +1

Following are our findings:
the data is usable and acceptable with the qualifications described in the attached narrative.

Richard L Byrnes

cc: Regional TPO
Cecilia Luckett
SM-5J

NARRATIVE

LABORATORY: REI
CASE: 25525
SDG: EBZA4
SITE: American Chemical Services

Below is a summary of the out-of-control audits and the possible effect on the data for this case.

1.HOLDING TIME

The water samples (EBZC0-4, EBZA4-6, EBZB9) were collected on 06/25-26/97.The laboratory received nine (9) low level water samples on 06/27/97 in good condition for the list of organic analytes following the SOW OLC02.1. The VOA samples were analyzed within the holding time of fourteen (14) days for the preserved water samples; therefore, the results are acceptable. The SVOA and Pest/PCB samples were extracted within the holding time of seven (7) days for the water samples. The SVOA and Pest/PCB extracts were analyzed within forty (40) days following the extraction; therefore, the SVOA and Pest/PCB results are acceptable.

2.GC/MS TUNING PERFORMANCE

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

The GC Resolution Check Mix met the 60% resolution criteria. DDT and Endrin degradation checks using Performance Evaluation Mix of DB-1701 and DB-17 columns were acceptable (<20%); therefore, the results are acceptable.

The Florisil Cartridge Checks met the QC criteria; therefore, the results are acceptable.

3.CALIBRATION

Initial and continuing calibration standards of VOA, SVOA and Pest/PCB were evaluated for the Target Compounds List (TCLs) and outliers were recorded on the outlier forms included as a part of this narrative.

4.METHOD BLANK

For the VOA fraction, VBLK21, VBLK23 and VBLK24 are the method blanks. VHBLK23 is the storage blank. VBLK21 contains methylene chloride at 0.3 µg/L, acetone at 2.0 µg/L and 1,2,4-

Reviewed by: Steffanie N. Tobin__Lockheed/ESAT
Date:__July 22nd, 1997__

trichlorobenzene at 0.3 µg/L. VBLK23 contains methylene chloride at 0.7 µg/L. VBLK24 is clean. The storage blank contains Methylene chloride at 0.3 µg/L. Methylene chloride and acetone are common laboratory contaminants. The presence of these two compounds in the samples associated with VBLK21, VBLK23 and storage blank is flagged as non-detected (U) when the sample results are less than 10X the blank results. 1,2,4-trichlorobenzene is not a common laboratory contaminant. The presence of this compound in the associated sample with VBLK21 is flagged as non-detected (U) when the sample results are less than 5X the blank results. Please, refer to Form IVs VOA for the list of associated samples.

For the SVOA fraction, SBLKF6 and SBLKF7 are the method blanks. Both blanks are clean.

PBLKF5 and PBLKF8 are the method blanks for the Pest/PCB fraction. PBLKF5 and PBLKF8 contain no Pest/PCB residues.

5.SYSTEM MONITORING COMPOUND AND SURROGATE RECOVERY

The system monitoring compound recoveries for the VOA fraction were within the QC limits; therefore, the results are acceptable.

The surrogate recoveries for the SVOA fraction were within the QC limits; therefore, the results are acceptable.

For the Pest/PCB fraction, the recoveries of TCX1 and TCX2 for EBZC2DL were above the QC limits. However, the sample was analyzed at the dilution of 1:5; therefore, no qualification is required. The recovery of TCX1 for samples EBZC2, EBZC2RE, EBZC3 and EBZC3RE was above the QC limit. The positive results for the above samples are flagged as estimated (J) and no qualification for the non-detected is needed.

6.LABORATORY CONTROL SAMPLES

VLCS21, SLCSD5, PLCSD4 were identified as the Laboratory Control Samples For the VOA, SVOA and Pest/PCB fractions, respectively.

The recoveries for the above laboratory Control Samples were within the QC limits; therefore, the results are acceptable.

Reviewed by: Steffanie N. Tobin__Lockheed/ESAT
Date:__July 22nd, 1997__

EPA United States Enviromental Protection Agency
Contract Laboratory Program

Special Analytical Services Packing List/Chain of Custody

SAS No.

Case No. 2552

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

2. Preservative (Enter in Column D)
1. HCl
2. HNO3
3. NAHSO4
4. H2SO4
5. NAOH
6. Ice Only
7. Other (Specify in Column D)
N. Not Preserved

2. Region No.: V
Sampling Co.: BVSPC
Sampler (Name): Steve Mikvicka
Sampler Signature: [signature]

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

4. Date Shipped: 6-26-97
Carrier: Federal Express
Airbill Number: 5405765434

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

6. Date Received–Received by: 6/27/97 830 [signature]
Laboratory Contract Number: 68-D6-0061
Unit Price: 459.50

7. Transfer to:
Date Received
Received by
Contract Number
Price

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 Analysis	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Sampler Initials	J High Phases: Solids	Water-Miscible Liq.	Water-Immis Liq.
B2A1 97ZB05S14	2	L	G	1	VOAs	5-155818,9	ACS-GW14-001	6-26-97 1215	SRM			
97ZB05S14	2	L	G	6	ABN	5-155816	↓	↓	↓			
97ZB05S14	2	L	G	6	Pest/PCBs	5-155817	↓	↓	↓			
B2C1 97ZB05S15	2	L	G	1	VOAs	5-155824,5	ACS-GW15-001	6-26-97 1010	SRM			
97ZB05S15	2	L	G	6	ABN	5-155822	↓	↓	↓			
97ZB05S15	2	L	G	6	Pest/PCBs	5-155823	↓	↓	↓			
B2C1 97ZB05TB05	4	L	G	1	VOAs	5-155829,30	ACS-TB05-201	6-26-97 1450	SRM			

First Sample: EBZB9

Shipment for SAS Complete? (Y/N) N
Page 2 of 2
Sample(s) to be Used for Laboratory QC
Additional Sampler Signatures: Last Sample: EBZC12, 158599
Chain of Custody Seal Number(s)

CHAIN OF CUSTODY RECORD

SDG: EBZA4

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
[signature]	6-26-97 1615		[signature]	6/27/97	
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
	6-27-97 830	[signature]			
Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time	Remarks Is custody seal intact? Y / N / none	
		[signature]	6/27/97 830		

DISTRIBUTION: White – Region Copy; Gold – Lab Copy for Return to Region; Yellow – Data User**; Pink – Lab Copy for Return to Data User**

EPA Form 9110-3

SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS
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52424

EPA United States Enviromental Protection Agency
Contract Laboratory Program

Special Analytical Services Packing List/Chain of Custody

SAS No.	Case No.

1. Matrix (Enter in Column A)	2. Preservative (Enter in Column D)	2. Region No.	Sampling Co.	4. Date Shipped	Carrier	6. Date Received--Received by:
1. Surface Water 2. Ground Water 3. Leachate 4. Field QC 5. Soil/Sediment 6. Oil 7. Waste 8. Other (Specify in Column A)	1. HCl 2. HNO3 3. NAHSO4 4. H2SO4 5. NAOH 6. Ice Only 7. Other (Specify in Column D) N. Not Preserved	V	[illegible]	[illegible] 6-26-97	[illegible] Express	6/27/97 830 [signature]
		Sampler (Name) [illegible]		Airbill Number 5405 165 434		Laboratory Contract Number 68-D6-0061 / Unit Price 459.50
		Sampler Signature [signature]		5. Ship To Rollins Environmental, Inc. [illegible] Research Park Rd. Ann Arbor, MI 48108 ATTN: Tim Marshall		7. Transfer to: / Date Received
		3. Purpose* Lead: [X] SF, [ ] PRP, [ ] ST, [ ] FED; Early Action: [ ] CLEM, [ ] PA, [ ] REM; [ ] SI, [ ] ESI, [ ] RI, [ ] OIL, [ ] UST; Long-Term Action: [ ] FS, [X] RD, [X] RA, [ ] O&M, [ ] NPLD				Received by
						Contract Number / Price

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 Analysis	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Sampler Initials	J High Phases: Solids	Water-Miscible Liq	Water-Immis Liq
[illegible]	2	L	G	1	VOA	5-155798.7	[illegible]	[illegible]	[illegible]			
[illegible]	2	L	G	6	ABN	5-155716	↓	↓	↓			
[illegible]	2	L	G	6	[illegible]/PCBs	5-155717	↓	↓	↓			
[illegible]	2	L	G	1	VOA	5-155804.5	[illegible]	[illegible]	[illegible]			
[illegible]		L	G	6	ABN	5-155802			↓			
[illegible]	2	L	G	6	[illegible]/PCBs	5-155803	↓	↓	↓			
[illegible]	2	L	G	1	[illegible]	5-155811.2	[illegible]	[illegible]	[illegible]			
[illegible]	2	L	G	6	ABN	5-155809	↓	↓	↓			
[illegible]	2	L	G	6	[illegible]/PCBs	5-155810	↓	↓	↓			

Shipment for SAS Complete? (Y/N)	Page	Sample(s) to be Used for Laboratory QC	Additional Sampler Signatures	Chain of Custody Seal Number(s)
	1 of 2		First Sample: EBZA4	158572, 158577

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
[signature]	[illegible]		Last Sample: EBZA6 SDG: EBZA4		
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
	6/27/97 830	[signature]		THM 6/27/97	
Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time	Remarks Is custody seal intact? Y / N / none	
		[signature]	6/27/97 830		

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Contract Laboratory Program

Special Analytical Services Packing List/Chain of Custody

SAS No.

Case No. 25525

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

2. Preservative (Enter in Column D)
   1. HCl
   2. HNO3
   3. NAHSO4
   4. H2SO4
   5. NAOH
   6. Ice Only
   7. Other (Specify in Column D)
   N. Not Preserved

2. Region No.: V
Sampling Co.: BVSPC.
4. Date Shipped: 6-26-97
Carrier: Federal Express
6. Date Received--Received by: 6/27/97 830 Dana E. Jacobs
Sampler (Name): Steve Mrkvicka
Airbill Number: 5405965445
Laboratory Contract Number: 68-D6-0061
Unit Price: 459.50
Sampler Signature: [signature]
5. Ship To: Rollins Environmental Inc. 3785 Research Park Rd. Ann Arbor, MI 48108 ATTN: Tom Marshall
7. Transfer to:
Date Received
Received by
Contract Number
Price

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

	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 Analysis	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/ Year/Time Sample Collection	I Sampler Initials	J High Phases Solids	Water-Miscible Liq.	Water-Immis Liq.
EBZC2	97ZB05516	2	L	G	1	VOAs	5-155833,4	ACS-GW16-001	6-26-97 1451	SRM			
	97ZB05516	2	L	G	6	ABN	5-155831	↓	↓	↓			
	97ZB05516	2	L	G	6	Pest/PCBs	5-155832	↓	↓	↓			
EBZC3	97ZB05517	2	L	G	1	VOAs	5-155839,40	ACS-GW17-001	6-26-97 1710	SRM			
	97ZB05517	2	L	G	6	ABN	5-155837	↓	↓	↓			
	97ZB05517	2	L	G	6	Pest/PCBs	5-155838	↓	↓	↓			
EBZC4	97ZB05TB06	4	L	G	1	VOAs	5-155843,4	ACS-TB06-201	6-26-97 1730	SRM			
							First Sample: EBZC2						
							Last Sample: EBZC4						

Shipment for SAS Complete? (Y) N
Page 1 of 1
Sample(s) to be Used for Laboratory QC
Additional Sampler Signatures: SDG: EBZA4
Chain of Custody Seal Number(s): 158580, 158659

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
[signature]	6-26-97 1800		[signature]	6/27/97	
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
	6-27-97 830	Dana E. Jacobs			
Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time	Remarks Is custody seal intact? (Y) N / none	
		Dana E. Jacobs	6-27-97 830		

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50405

EPA United States Enviromental Protection Agency
Contract Laboratory Program

Special Analytical Services Packing List/Chain of Custody

SAS No.

Case No. 25525

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

2. Preservative (Enter in Column D): 1. HCl 2. HNO3 3. NAHSO4 4. H2SO4 5. NAOH 6. Ice Only 7. Other (Specify in Column D) N. Not Preserved

2. Region No.: V

Sampling Co.: BVSPC

4. Date Shipped: 6-26-97

Carrier: Federal Express

6. Date Received--Received by: 6/27/97 830 [signature]

Sampler (Name): Steve Mrkvicka

Airbill Number: 5405965434

Laboratory Contract Number: 68-D6-0061

Unit Price: 459.50

Sampler Signature: [signature]

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

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

7. Transfer to:

Date Received

Received by

Contract Number

Price

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 Analysis	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Sampler Initials	J High Phases: Solids	Water-Miscible Liq.	Water-Immis Liq.
97ZB05S11	2	L	G	1	VOA	5-155798,9	ACS-GW11-001	6-25-97 1754	SRM			
97ZB05S11	2	L	G	6	ABN	5-155796	↓	↓	↓			
97ZB05S11	2	L	G	6	Pest/PCBs	5-155797	↓	↓	↓			
97ZB05S12	2	L	G	1	VOA	5-155804,5	ACS-GW12-001	6-26-97 0845	SRM			
97ZB05S12	2	L	G	6	ABN	5-155802	↓	↓	↓			
97ZB05S12	2	L	G	6	Pest/PCBs	5-155803	↓	↓	↓			
97ZB05S13	2	L	G	1	VOAs	5-155811,2	ACS-GW13-001	6-26-97 0940	SRM			
97ZB05S13	2	L	G	6	ABN	5-155809	↓	↓	↓			
97ZB05S13	2	L	G	6	Pest/PCBs	5-155810	↓	↓	↓			

Shipment for SAS Complete? (Y/N) N

Page 1 of 2

Sample(s) to be Used for Laboratory QC

Additional Sampler Signatures: First Sample: EBZA4

Chain of Custody Seal Number(s): 158572, 158599

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
[signature]	6-26-97 1615		Last Sample: EBZA6 SDC: EBZA4		
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
	6/27/97 830	[signature]		THM 6/27/97	
Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time	Remarks Is custody seal intact? Y / N / none	
		[signature]	6/27/97 830		

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52 94

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Contract Laboratory Program

Sp[illegible]l Analytical Services Packing List/Chain of Custody

SAS No.	Case N[illegible]

1. Matrix (Enter in Column A)	2. Preservative (Enter in Column D)	2. Region No.	Sampling Co.	4. Date Shipped	Carrier	6. Date Received--Received by:
1. Surface Water 2. Ground Water 3. Leachate 4. Field QC 5. Soil/Sediment 6. Oil 7. Waste 8. Other (Specify in Column A)	1. HCl 2. HNO3 3. NAHSO4 4. H2SO4 5. NAOH 6. Ice Only 7. Other (Specify in Column D) N. Not Preserved	[illegible]	[illegible]	6-26-97	[illegible]	6/27/97 830 [signature]
		Sampler (Name) [illegible]		Airbill Number [illegible]		Laboratory Contract Number 68-D6-0061 / Unit Price 459.50
		Sampler Signature [illegible]		5. Ship To [illegible] Environmental, Inc. 185 Research Park Rd. Ann Arbor, MI 48108 ATTN: Tom Marshall		7. Transfer to: / Date Received
		3. Purpose* Lead: [x] SF [ ] PRP [ ] ST [ ] FED; Early Action: [ ] CLEM [ ] PA [ ] REM; [ ] SI [ ] ESI [ ] RI [ ] OIL [ ] UST; Long-Term Action: [ ] FS [x] RD [x] RA [ ] O&M [ ] NPLD				Received by
						Contract Number / Price

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 Analysis	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Sampler Initials	J High Phases: Solids	Water-Miscible Liq	Water-Immis Liq
[illegible]	2	L	G	1	VOA	5-155818[illegible]	ACS [illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	2	L	G	6	AIN	5-155[illegible]	↓	↓	↓			
[illegible]	2	L	G	6	[illegible]/PCBs	5-155[illegible]	↓	↓	↓			
[illegible]	2	L	G	1	VOAs	5-155[illegible]	ACS [illegible]	[illegible]	[illegible]			
[illegible]	2	L	G	6	AIN	5-154822	↓	↓	↓			
[illegible]	2	L	G	6	[illegible]/PCBs	5-155823	↓	↓	↓			
[illegible]	[illegible]	L	G	1	VOAs	5-155821[illegible]	ACS [illegible]	[illegible]	[illegible]			

First Sample: EBZB9

Shipment for SAS Complete? (Y/N)	Page 2 of 2	Sample(s) to be Used for Laboratory QC	Additional Sampler Signatures	Chain of Custody Seal Number(s)
			Last Sample: EBZC1	[illegible]

CHAIN OF CUSTODY RECORD

SDG: EBZ A4

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
[signature]	[illegible]		THM	6/27/97	
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
	6-27-97 830	[signature]			
Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature) [signature]	Date/Time 6/27/97 830	Remarks Is custody seal intact? Y / N / none	

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52104

EPA United States Enviromental Protection Agency
Contract Laboratory Program

Special Analytical Services Packing List/Chain of Custody

SAS No.	Case No.

1. Matrix (Enter in Column A) 1. Surface Water 2. Ground Water 3. Leachate 4. Field QC 5. Soil/Sediment 6. Oil 7. Waste 8. Other (Specify in Column A)	2. Preservative (Enter in Column D) 1. HCl 2. HNO3 3. NAHSO4 4. H2SO4 5. NAOH 6. Ice Only 7. Other (Specify in Column D) N. Not Preserved	2. Region No.: [illegible] Sampling Co.: [illegible] Sampler (Name): Steve Mikunka Sampler Signature: [illegible]	4. Date Shipped: [illegible] Carrier: Federal Express Airbill Number: 5405965445
6. Date Received--Received by: 6/27/97 830 Sara E. Yerb		Laboratory Contract Number: 68-D6-0061	Unit Price: 459.50
7. Transfer to:	Date Received	Received by	
Contract Number	Price		

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

5. Ship To: Rollins Environmental, Inc
3185 Research Park Rd.
Ann Arbor, MI 48108
ATTN: Tom Marshall

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 Analysis	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Sampler Initials	J High Phases: Solids	Water-Miscible Liq	Water-Immis Liq
[illegible]	[illegible]	L	G	1	VOAs	5-155833,4	AC[illegible]	[illegible]	SKM			
[illegible]	[illegible]	L	G	6	ASN	5-155831	↓	↓	↓			
[illegible]	[illegible]	L	G	6	Pest/PCBs	5-155832	↓	↓	↓			
[illegible]	[illegible]	L	G	1	VOAs	5-155[illegible],40	AC[illegible]	[illegible]	SKM			
[illegible]	[illegible]	L	G	6	ASN	5-155837	↓	↓	↓			
[illegible]	[illegible]	L	G	6	Pest/PCBs	5-155838	↓	↓	↓			
[illegible]	[illegible]	L	G	1	VOAs	5-155[illegible]	AC[illegible]	[illegible]	SKM			
						First Sample: EBZC2						
						Last Sample: EBZC4						

Shipment for SAS Complete? (Y/N)	Page	Sample(s) to be Used for Laboratory QC	Additional Sampler Signatures	Chain of Custody Seal Number(s)
	1 of 1		SDG: EBZA4	[illegible]

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
[illegible]	[illegible]		[illegible]	6/27/97	
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
	6-27-97 830	Sara E. Yerb			
Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time	Remarks Is custody seal intact? Y / N / none	
		Sara E. Yerb	6-27-97 830		

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A21-012-7 REV. 3/94

2LCA

LOW CONC. WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

	EPA SAMPLE NO.	BFB %REC#	OTHER	TOT OUT
01	VBLK21	96		0
02	EBZA4	103		0
03	EBZA6	109		0
04	EBZB9	112		0
05	EBZC0	105		0
06	EBZC1	106		0
07	EBZC2	106		0
08	EBZC3	109		0
09	VLCS21	96		0

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

Column to be used to flag recovery values

* Values outside of contract required QC limits

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 7/9/97

Thomas H. Marshall DATE

Project Manager

THM

75100

2LCA

LOW CONC. WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: _____ SDG No.: EBZA4

	EPA SAMPLE NO.	BFB %REC#	OTHER	TOT OUT
01	VBLK23	99		0
02	EBZC4	95		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.: 25525 SAS No.: _____ SDG No.: EBZA4

	EPA SAMPLE NO.	BFB %REC#	OTHER	TOT OUT
01	VBLK24	100		0
02	EBZC2DL	97		0
03	EBZC3DL	109		0
04	EBZA5	104		0
05	VHBLK23	99		0

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

Column to be used to flag recovery values

* Values outside of contract required QC limits

SDG NARRATIVE

Client Name: US EPA

Project Number: 75100

CASE Number: 25525

Sample Delivery Group: EBZA4

Contract Number: 68-D6-0061

Batch Number(s): 100004505

Narrative Date: July 10, 1997

Samples: EBZA4, EBZA5, EBZA6, EBZB9, EBZC0, EBZC1, EBZC2, EBZC3, EBZC4

A total of nine samples were received by REI on June 27, 1997, and were scheduled for Organics Analysis. Please refer to the following table for vital information that pertains to this case.

Table 1.0

SDG #: EBZA4

	SAMPLE ANALYZED			
	Actual Samples	QC Samples	Re-Run Samples	Total Billable Analyses
Volatile Analyses	9	1	2	12
Semivolatile Analyses	7	1	3	11
Pesticide/PCB Analyses	7	1	2	10

Total Analyses: 10 Full + 2 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 nine samples from Federal Express on June 25, 1997. Standard Chain of Custody procedures were followed. The samples were stored at 4°C and/or chemically preserved as required by EPA protocol. The samples were scheduled for Full Organic Analysis. The sample identifications originally listed on the chain of custodies were incorrect. SMO was notified and provided a facsimile with the correct sample identifications on June 27, 1997.

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 1,2,4-Trichlorobenzene near or below the CRQL. No Tentatively Identified Compounds (TIC) 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 samples revealed several positively detected Target Compounds. Several Tentatively Identified Compounds were detected in the samples. Samples EBZC2 and EBZC3 required reanalysis at secondary dilutions due to concentrations of detected analytes exceeding the linear range established by the calibration standards. Please see FORM's I LCV for results.

Sample Extraction

The samples were continuous liquid-liquid extracted for Semivolatile analysis on June 30, 1997 through July 01, 1997. The samples were separatory funnel extracted for Pesticide/PCB analysis on June 30, 1997 and July 03, 1997. All extracts were processed

according to CLP protocol with two incidents. Samples EBZC2 and EBZC3 were reextracted for pesticides/PCB's due to surrogate recovery outliers with Tetrachloro-m-xylene in the initial analyses. Final extracts were given to the GC/MS and GC groups July 01, 1997 through July 07, 1997.

Sample Analysis - Semivolatile

Sample analysis was performed with three incidents 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 contain 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 samples revealed several positively detected Target compounds. Several TIC's were detected in the samples. Samples EBZC2 and EBZC0 required reanalysis at secondary dilutions due to concentrations of detected analytes exceeding the linear range established by the calibration standards. Sample EBZA4 required reanalysis to verify matrix interferences that were suspected to have caused an EICP outlier with d12-Chrysene internal standard in the original sample analysis. Reanalysis of this sample revealed a similar EICP outlier supporting the previous suspicions of matrix interferences. Please see FORM's I LCSV-1, LCSV-2, and LCSV-TIC for results.

Sample Analysis - Pesticide/PCB

Sample analysis was performed with two incidents 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 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

Target analytes were found in several samples at concentrations near the CRQL. Sample EBZC2 required reanalysis at a secondary dilution due to concentrations of detected analytes exceeding the linear range established by the calibration standards. Sample EBZC3 required a reextraction due to surrogate outlier with Tetrachloro-m-xylene during the original analysis. The subsequent reanalysis also exhibited the same surrogate outlier. Matrix interferences are suspected to be the cause of this QA/QC outlier. 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).

7.FIELD BLANK AND FIELD DUPLICATE

Samples EBZC1 and EBZC4 were identified as the trip blanks. None of the samples in this dataset were identified as the field duplicates. EBZC1 contains 4 VOA TCLs and EBZC4 is clean.

8.INTERNAL STANDARDS

The internal standard retention times and area counts for the VOA fraction were within the QC limits; therefore, the results are acceptable.

For the SVOA fraction, the recovery of d_{12}-perylene (IS6) for samples EBZA4, EBZA4RE and EBZC2 was below the QC limit. The positive results for the target compounds which are associated with the above IS for the above samples are flagged as estimated (J) and non-detected (UJ). Please refer to Table 4 for the list of associated compounds for the above IS.

9.COMPOUND IDENTIFICATION

The target compounds and TICs for the VOA, SVOA and Pest/PCB fractions were properly identified.

10.COMPOUND QUANTITATION AND REPORTED DETECTION LIMITS

The VOA, SVOA and Pest/PCB Target Compounds (TCLs) and Tentative Identified Compounds (TICs) were properly quantitated; therefore, the data are acceptable. The CRQLs were adjusted to reflect all sample dilutions.

11.SYSTEM PERFORMANCE

GC/MS baseline indicated acceptable performance.

The baseline for the Pest/PCB analysis indicated acceptable performance.

12.ADDITIONAL INFORMATION

The results of chloroethane and benzene for VOA fraction and the result of bis(2-chloroethyl)ether for SVOA fraction of sample EBZC2

were quantitated outside the calibration range. The result of chloroethane for VOA fraction of sample EBZC3 was quantitated outside the calibration range. The result of bis(2-ethylhexyl) phthalate for SVOA fraction of sample EBZC0 was quantitated outside the calibration range. For any analyte that exceeded the calibration range in the original sample analysis; the results of the diluted analysis should be considered the sample's analyte concentration.

The SVOA results for EBZA4 should be used since the QC for the reanalysis (EBZA4RE) did not improve.

For the Pest/PCB fraction, the results for sample EBZC2DL should be used since the surrogate recoveries did not affect the positive results. The results for EBZC3 should be used since the QC for the reanalysis did not improve.

Reviewed by: Steffanie N. Tobin__Lockheed/ESAT
Date:__July 22nd, 1997__

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

CASE\SAS#: 25525
COLUMN: DB-624
HEATED PURGE (Y/N):

LABORATORY: REI
SITENAME: American Chemical Services

Instrument# 5971-010		Initial Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.		
Date/Time: 7-1-97 22:07		7-1-97 22:07			7-2-97 11:17			7-3-97 9:17								
	#	rf	%rsd	*	rf	%d	*	rf	%d	*	rf	%d	*	rf	%d	*
Chloromethane	0.01	0.222	30.1	J												
Bromomethane	0.10	0.084	33.8	J	0.053	36.9	J									
Vinyl chloride	0.10															
Chloroethane	0.01															
Methylene chloride	0.01															
Acetone	0.01	0.029	37.6	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	0.062	34.3	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															
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:		EBZA4			VB1K23			VB1K24								
		6			EBZC4			EBZC2DL								
		EBZB9						3DL								
		EBZCD-3						EBZA5								
		VLCS21						VHBIK23								
		VBIK21														

Reviewer's Init/Date: ST 7-18-97

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#: 25525
COLUMN:

LABORATORY: RET
SITE NAME: American Chemical Services

Instrument# 5971-C24		Initial Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.		
Date/Time: 7-1-97 23:04		7-1-97 23:04			7-2-97 13:51											
	#	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	0.277	34.1	J												
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: ST 7-18-97

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#: 25525
COLUMN:

LABORATORY: RET
SITE NAME: American Chemical Services

Instrument#		Initial Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.		
Date/Time:		7-1-97 23:04			7-2-97 13:57											
	#	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:

SPIKE6	SPIKE7
SLCSD5	EBZCC
EBZA4-6	EBZA4RE
EBZB9	EBZC2DL
EBZC2-3	EBZC1DL

Reviewer's Init/Date: ST 7-18-97

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 COMPOUNDS
(Page 1 of 1)

Pg ___ of ___

CASE\SAS#: 25525
COLUMN: DB-1701

LABORATORY: RET
SITE NAME: American Chemical Service

Instrument# 54CCD		Initial Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.		
Date/Time: 6/24/97 9:01		6/24/97 9:01			7/1/97 16:45			7/2/97 3:01			7/7/97 12:57			7/7/97 16:05		
	#	rf	%rsd	*	rf	%d	*	rf	%d	*	rf	%d	*	rf	%d	*
alpha-BHC	0.01															
beta-BHC	0.40															
delta-BHC	0.90															
gamma-BHC	0.01															
Heptachlor	0.01															
Aldrin	0.01															
Heptachlor epoxide	0.10															
Endosulfan I	0.10															
Dieldrin	0.05															
4, 4'-DDE	0.70															
Endrin	0.70															
Endosulfan II	0.01															
4, 4'-DDD	0.60															
Endosulfan sulfate	0.60															
4, 4'-DDT	0.01															
Methoxychlor	0.01															
Endrin ketone	0.80															
Endrin aldehyde	0.70															
alpha chlordane	0.01															
gamma chlordane	0.01															
Arochlor 1016																
Arochlor 1221																
Arochlor 1232																
Arochlor 1242																
Arochlor 1248																
Arochlor 1254																
Arochlor 1260																

Affected samples:

	PB1KF5	PB1KF8
	PLCB04	EBZC3RE
	EBZA4-6	EBZC2RE
	EBZB9	
	EBZC0	
	EBZC3	
	EBZC2	
	EBZC2D1	

Reviewer's Init/Date: ST 7-18-97

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

CALIBRATION CHECK

PESTICIDE/PCB TCL COMPOUNDS

(Page 1 of 1)

CASE\SAS#: 25525 LABORATORY: RET

COLUMN: DB-17 SITE NAME: American Chemical Service

Instrument# 6400C		Initial Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.		
Date/Time: 6/24/97 9:01		6/24/97 9:01			7/1/97 16:45			7/2/97 3:01			7/7/97 12:57			7/7/97 16:05		
	#	rf	%rsd	*	rf	%d	*	rf	%d	*	rf	%d	*	rf	%d	*
alpha-BHC	0.01															
beta-BHC	0.40															
delta-BHC	0.90															
gamma-BHC	0.01															
Heptachlor	0.01															
Aldrin	0.01															
Heptachlor epoxide	0.10															
Endosulfan I	0.10															
Dieldrin	0.05															
4, 4'-DDE	0.70															
Endrin	0.70															
Endosulfan II	0.01															
4, 4'-DDD	0.60															
Endosulfan sulfate	0.60															
4, 4'-DDT	0.01															
Methoxychlor	0.01															
Endrin ketone	0.80															
Endrin aldehyde	0.70															
alpha chlordane	0.01															
gamma chlordane	0.01															
Arochlor 1016																
Arochlor 1221																
Arochlor 1232																
Arochlor 1242																
Arochlor 1248																
Arochlor 1254																
Arochlor 1260																

Affected samples:

	PB1KF5		PB1KF8
	P1CSD4		EB2C3RE
	EB2A4-6		EB2C2RE
	EB2B9		
	EB2C0		
	EB2C3		
	EB2C2		
	EB2C2DL		

Reviewer's Init/Date: ST 7-18-97

* These flags should be applied to the analytes on the sample data sheets.

\# Minimum Relative Response Factor

ORGANIC DATA QUALIFIER DEFINITIONS

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

VALUE-if the results is a value 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 but 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 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.

TA. 4

VOLATILE INTERNAL STANDARDS WITH CORRESPONING TCL ANALYTES ASSIGNED FOR QUANTITATION

Bromochloromethane	1,4-Difluorobenzene	Chlorobenzene-d_5
Chloromethane	Bromoform	2-Hexanone
Bromomethane	1,1,1-Trichloroethane	4-Methyl-2-pentanone
Vinyl chloride	Carbon tetrachloride	Tetrachloroethene
Chloroethane	Bromodichloromethane	1,1,2,2-Tetrachloroethane
Methylene chloride	1,2-Dichloropropane	Toluene
Acetone	trans-1,3-Dichloropropene	Chlorobenzene
Carbon disulfide	Trichloroethene	Ethylbenzene
1,1-Dichloroethene	Dibromochloromethane	Styrene
1,1-Dichloroethane	1,1,2-Trichloroethane	Xylene(total)
1,2-Dichloroethene(total)	Benzene	Bromofluorobenzene(surr,smc)
Chloroform	cis-1,3-Dichloropropene	Toluene-d_8(surr,smc)
1,2-Dichloroethane		
1,2-Dichloroethane-d_4(surr,smc)		
2-Butanone		

SEMIVOLATILE INTERNAL STANDARDS WITH CORRESPONING TCL ANALYTES ASSIGNED FOR QUANTITATION

1,4-Dichlorobenzene-d_4	Naphthalene-d_8	Acenaphthene-d_{10}	Phenanthrene-d_{10}	Chrysene-d_{12}	Perylene-d_{12}
Phenol	Nitrobenzene	Hexachlorocyclopentadiene	4,6-Dinitro-2-methylphenol	Pyrene	Di-n-octyl phthalate
bis(2-chloroethyl)ether	Isophorone	2,4,6-Trichlorophenol	N-nitroso-di-phenylamine	butylbenzyl phthalate	Benzo(b)fluoranthene
2-Chlorophenol	2-Nitrophenol	2,4,5-Trichlorophenol	Carbazole	3,3'-Dichlorobenzidine	Benzo(k)fluoranthene
1,3-Dichlorobenzene	2,4-Dimethylphenol	2-Chloronaphthalene	4-Bromophenyl phenyl ether	Benzo(a)anthracene	Benzo(a)pyrene
1,4-Dichlorobenzene	Naphthalene	2-Nitroaniline	Hexachlorobenzene	bis(2-Ethylhexyl)phthalate	Indeno(1,2,3-cd)pyrene
2,2'-Oxybis-(1-chloropropane)	bis(2-Chloroethoxy)methane	Dimethylphthalate	Pentachlorophenol	Chrysene	Dibenzo(a,h)anthracene
1,2-Dichlorobenzene	2,4-Dichlorophenol	Acenaphthylene	Phenanthrene	Terphenyl-d_{14}(surr)	Benzo(g,h,i)perylene
2-Methylphenol	1,2,4-Trichlorobenzene	3-Nitroaniline	Anthracene		
bis(2-Chloroisopropyl)ether	4-Chloroaniline	Acenaphthene	Di-n-butyl phthalate		
4-Methylphenol	Hexachlorobutadiene	2,4-Dinitrophenol	Fluoranthene		
N-nitroso-di-n-propylamine	4-Chloro-3-methylphenol	4-Nitrophenol			
Hexachloroethane	2-Methylnaphthalene	Dibenzofuran			
2-Fluorophenol(surr)	Nitrobenzene-d_5(surr)	2,4-Dinitrotoluene			
Phenol-d_5(surr)		2,6-Dinitrotoluene			
2-Chlorobenzene-d_4(surr)		Diethyl phthalate			
1,2-Dichlorobenzene-d_4(surr)		4-Chlorophenyl phenyl ether			
		Fluorene			
		4-Nitroaniline			
		2-Fluorobiphenyl(surr)			
		2,4,6-Tribromophenol(surr)			

(surr) - surrogate
(smc) - system monitoring compound

3LCA

LOW CONC. WATER VOLATILE LAB CONTROL SAMPLE RECOVERY

EPA SAMPLE NO.

VLCS21

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: VLCS21 LCS Lot No.: LA62539

Lab File ID: LCS0701J.D Date Analyzed: 7/2/97

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	50.80	102	60 - 140
1,2-Dichloroethane	50	43.60	87	60 - 140
Carbon Tetrachloride	50	40.60	81	60 - 140
1,2-Dichloropropane	50	44.70	89	60 - 140
cis 1,3-Dichloropropene	50	44.00	88	60 - 140
Trichloroethene	50	44.40	89	60 - 140
1,1,2-Trichloroethane	50	44.10	88	60 - 140
Benzene	50	40.20	80	60 - 140
Bromoform	50	40.40	81	60 - 140
Tetrachloroethene	50	40.40	81	60 - 140
1,2-Dibromoethane	50	43.60	87	60 - 140
1,4-Dichlorobenzene	50	42.90	86	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:

FORM III LCV

OLC02.0

4LCA

LOW CONC. WATER VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK21

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: VBLK21 Date Analyzed: 07/02/97

Lab File ID: VWBG01J2.D Time Analyzed: 01:44

Instrument ID: 5971-010

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	EBZA4	EBZA4	26646V.D	02:19
02	EBZA6	EBZA6	26648V.D	03:31
03	EBZB9	EBZB9	26649V.D	04:06
04	EBZC0	EBZC0	26650V.D	04:42
05	EBZC2	EBZC2	26652V.D	05:53
06	EBZC3	EBZC3	26653V.D	06:28
07	VLCS21	VLCS21	LCS0701J.D	08:14

COMMENTS:

4LCA

LOW CONC. WATER VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK23

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: _____ SDG No.: EBZA4

Lab Sample ID: VBLK23 Date Analyzed: 07/02/97

Lab File ID: VWBG02J1.D Time Analyzed: 13:39

Instrument ID: 5971-010

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	EBZC4	EBZC4	26654VR.D	22:00

COMMENTS:

4LCA

LOW CONC. WATER VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK24

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: _____ SDG No.: EBZA4

Lab Sample ID: VBLK24 Date Analyzed: 07/03/97

Lab File ID: VWBG03J1.D Time Analyzed: 10:28

Instrument ID: 5971-010

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	EBZC2DL	EBZC2DL	26652VR3.D	15:48
02	EBZC3DL	EBZC3DL	26653VR1.D	16:23
03	EBZA5	EBZA5	26647VR.D	17:19
04	VHBLK23	VHBLK23	VBLK23.D	17:54

COMMENTS:

1LCA

EPA SAMPLE NO.

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

VBLK21

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: VBLK21 Date Received:

Lab File ID: VWBG01J2.D Date Analyzed: 07/02/97

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	0.3	J
67-64-1	Acetone	2	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	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	0.3	J

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK21

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: VBLK21 Date Received:

Lab File ID: VWBG01J2.D Date Analyzed: 07/02/97

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

VBLK23

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: VBLK23 Date Received:

Lab File ID: VWBG02J1.D Date Analyzed: 07/02/97

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	0.7	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.

VBLK23

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: VBLK23 Date Received:

Lab File ID: VWBG02J1.D Date Analyzed: 07/02/97

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

VBLK24

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: VBLK24 Date Received:

Lab File ID: VWBG03J1.D Date Analyzed: 07/03/97

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	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.

VBLK24

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: VBLK24 Date Received:

Lab File ID: VWBG03J1.D Date Analyzed: 07/03/97

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

VHBLK23

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: VHBLK23 Date Received: 06/27/97

Lab File ID: VBLK23.D Date Analyzed: 07/03/97

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	0.3	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.

VHBLK23

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: VHBLK23 Date Received: 06/27/97

Lab File ID: VBLK23.D Date Analyzed: 07/03/97

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

VLCS21

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: VLCS21 Date Received:

Lab File ID: LCS0701J.D Date Analyzed: 07/02/97

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	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	4	
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	4	
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	4	
10061-01-5	cis 1,3-Dichloropropene	4	
79-01-6	Trichloroethene	4	
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	4	
71-43-2	Benzene	4	
10061-02-6	trans 1,3-Dichloropropene	1	U
75-25-2	Bromoform	4	
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	4	
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	4	
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	4	
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.

VLCS21

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: VLCS21 Date Received:

Lab File ID: LCS0701J.D Date Analyzed: 07/02/97

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

EBZA4

GW11
MW51

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: EBZA4 Date Received: 06/27/97

Lab File ID: 26646V.D Date Analyzed: 07/02/97

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	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	4	J
591-78-6	2-Hexanone	2	J
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.

EBZA4

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: EBZA4 Date Received: 06/27/97

Lab File ID: 26646V.D Date Analyzed: 07/02/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

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

Number TICs found: 2

CAS NO.	COMPOUND NAME	RT	EST.CONC. (ug/L)	Q
1.	unknown	4.25	182	J
2. 000109-99-9	Furan, tetrahydro-	8.30	5	JN

1LCA

EPA SAMPLE NO.

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EBZA5

GW12

MIS

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: EBZA5 Date Received: 06/27/97

Lab File ID: 26647VR.D Date Analyzed: 07/03/97

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	~~0.8~~ 1	J U	09/11/97
75-09-2	Methylene Chloride	2	U	
67-64-1	Acetone	5	U	
75-15-0	Carbon Disulfide	1	U	09/11/97
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 ~~0.8~~	J U	09/11/97
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	0.3	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.

EBZA5

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: EBZA5 Date Received: 06/27/97

Lab File ID: 26647VR.D Date Analyzed: 07/03/97

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	4.40	3	JN

1LCA

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBZA6

GW13
M3S

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: EBZA6 Date Received: 06/27/97

Lab File ID: 26648V.D Date Analyzed: 07/02/97

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	2	U
67-64-1	Acetone	5 ~~4~~	JBU
75-15-0	Carbon Disulfide	1 ~~0.8~~	J 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 ~~0.2~~	J 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

SF 7/18/97
CWB 09/11/97

CWP 09/11/97

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EBZA6

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: EBZA6 Date Received: 06/27/97

Lab File ID: 26648V.D Date Analyzed: 07/02/97

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

EBZB9

GW14

M4D

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: EBZB9 Date Received: 06/27/97

Lab File ID: 26649V.D Date Analyzed: 07/02/97

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	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.

EBZB9

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: EBZB9 Date Received: 06/27/97

Lab File ID: 26649V.D Date Analyzed: 07/02/97

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

EBZC0

GW15

M2S

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: EBZC0 Date Received: 06/27/97

Lab File ID: 26650V.D Date Analyzed: 07/02/97

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	2	U
67-64-1	Acetone	5	JB4
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

ST 7/18/97

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EBZC0

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: EBZC0 Date Received: 06/27/97

Lab File ID: 26650V.D Date Analyzed: 07/02/97

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

EBZC1

TB05 trip blank

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: EBZC1 Date Received: 06/27/97

Lab File ID: 26651V.D Date Analyzed: 07/02/97

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	15	
75-09-2	Methylene Chloride	2	U
67-64-1	Acetone	2	J
75-15-0	Carbon Disulfide	0.2	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	1	
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.

EBZC1

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: EBZC1 Date Received: 06/27/97

Lab File ID: 26651V.D Date Analyzed: 07/02/97

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

EBZC2

GW16
M4S

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: EBZC2 Date Received: 06/27/97

Lab File ID: 26652V.D Date Analyzed: 07/02/97

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	4	
75-00-3	Chloroethane	647	E
75-09-2	Methylene Chloride	8	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	0.5	J
156-60-5	trans 1,2-Dichloroethene	21	
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	96	E
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	
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

ST 7/18/97

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EBZC2

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: EBZC2 Date Received: 06/27/97

Lab File ID: 26652V.D Date Analyzed: 07/02/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

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

Number TICs found: 10

	CAS NO.	COMPOUND NAME	RT	EST.CONC. (ug/L)	Q
1.		unknown	2.73	5	J
2.	000060-29-7	Ether	4.43	13	JN
3.	000109-87-5	Methane, dimethoxy-	4.90	11	JN
4.		unknown	5.83	7	J
5.	000108-20-3	Diisopropyl ether	6.99	14	JN
6.		unknown	7.83	2	J
7.		unknown	8.06	2	J
8.	000109-99-9	Furan, tetrahydro-	8.40	79	JN
9.	000111-43-3	Di-n-propyl ether	9.94	30	JN
10.	000123-91-1	1,4-Dioxane	11.47	8	JN

1LCA

EPA SAMPLE NO.

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EBZC2DL

GW16
M4S
diluted

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: EBZC2DL Date Received: 06/27/97

Lab File ID: 26652VR3.D Date Analyzed: 07/03/97

Purge Volume: 10.0 (ml) Dilution Factor: 125.0

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

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	Chloromethane	125	U
74-83-9	Bromomethane	125	U
75-01-4	Vinyl Chloride	125	U
75-00-3	Chloroethane	2400	D
75-09-2	Methylene Chloride	53	JD
67-64-1	Acetone	625	U
75-15-0	Carbon Disulfide	125	U
75-35-4	1,1-Dichloroethene	125	U
75-34-3	1,1-Dichloroethane	125	U
156-59-2	cis 1,2-Dichloroethene	125	U
156-60-5	trans 1,2-Dichloroethene	125	U
67-66-3	Chloroform	125	U
107-06-2	1,2-Dichloroethane	125	U
78-93-3	2-Butanone	625	U
74-97-5	Bromochloromethane	125	U
71-55-6	1,1,1-Trichloroethane	125	U
56-23-5	Carbon Tetrachloride	125	U
75-27-4	Bromodichloromethane	125	U
78-87-5	1,2-Dichloropropane	125	U
10061-01-5	cis 1,3-Dichloropropene	125	U
79-01-6	Trichloroethene	125	U
124-48-1	Dibromochloromethane	125	U
79-00-5	1,1,2-Trichloroethane	125	U
71-43-2	Benzene	211	D
10061-02-6	trans 1,3-Dichloropropene	125	U
75-25-2	Bromoform	125	U
108-10-1	4-Methyl-2-pentanone	625	U
591-78-6	2-Hexanone	625	U
127-18-4	Tetrachloroethene	125	U
79-34-5	1,1,2,2-Tetrachloroethane	125	U
106-93-4	1,2-Dibromoethane	125	U
108-88-3	Toluene	125	U
108-90-7	Chlorobenzene	125	U
100-41-4	Ethylbenzene	125	U
100-42-5	Styrene	125	U
1330-20-7	Xylene (total)	125	U
541-73-1	1,3-Dichlorobenzene	125	U
106-46-7	1,4-Dichlorobenzene	125	U
95-50-1	1,2-Dichlorobenzene	125	U
96-12-8	1,2-Dibromo-3-chloropropane	125	U
120-82-1	1,2,4-Trichlorobenzene	125	U

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EBZC2DL

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: EBZC2DL Date Received: 06/27/97

Lab File ID: 26652VR3.D Date Analyzed: 07/03/97

Purge Volume: 10.0 (ml) Dilution Factor: 125.0

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

EBZC3

GW17
MW10C

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: EBZC3 Date Received: 06/27/97

Lab File ID: 26653V.D Date Analyzed: 07/02/97

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	10	
75-00-3	Chloroethane	437	E
75-09-2	Methylene Chloride	4	B ✓
67-64-1	Acetone	5	U
75-15-0	Carbon Disulfide	1	
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	0.3	J
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	
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	
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.

EBZC3DL

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: EBZC3DL Date Received: 06/27/97

Lab File ID: 26653VR1.D Date Analyzed: 07/03/97

Purge Volume: 10.0 (ml) Dilution Factor: 40.0

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	4.45	2200	JND

1LCA

EPA SAMPLE NO.

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EBZC4

TB06 trip blank

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: EBZC4 Date Received: 06/27/97

Lab File ID: 26654VR.D Date Analyzed: 07/02/97

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	2 ~~0.5~~	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

ST 7/18/97

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EBZC4

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: EBZC4 Date Received: 06/27/97

Lab File ID: 26654VR.D Date Analyzed: 07/02/97

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.: 25525 SAS No.: SDG No.: EBZA4

	EPA SAMPLE NO.	S1 NBZ #	S2 FBP #	S3 TPH #	S4 PHL #	S5 2-FP #	S6 TBP #	TOT OUT
01	SBLKF6	75	75	75	77	70	52	0
02	SLCSD5	75	75	77	80	71	53	0
03	EBZA4	72	75	78	81	54	61	0
04	EBZA5	78	78	73	78	73	61	0
05	EBZA6	75	76	78	80	73	63	0
06	EBZB9	78	77	81	81	76	62	0
07	EBZC2	78	70	86	79	83	66	0
08	EBZC3	66	71	82	82	74	62	0
09	EBZA4RE	71	74	78	81	52	60	0
10	EBZC2DL	34	36	35	21	37	29	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.: 25525 SAS No.: SDG No.: EBZA4

	EPA SAMPLE NO.	S1 NBZ #	S2 FBP #	S3 TPH #	S4 PHL #	S5 2-FP #	S6 TBP #	TOT OUT
01	SBLKF7	70	72	80	70	62	47	0
02	EBZC0	69	72	76	75	67	57	0
03	EBZC0DL	34	36	38	37	33	28	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.

SLCSD5

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: SLCSD5 LCS Lot No.: MB102C

Lab File ID: SLCSD5.D Date Extracted 06/30/97

LCS Aliquot: 10.0 (ul) Date Analyzed: 7/2/97

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

Injection Volume: 1 (ul)

COMPOUND	AMOUNT ADDED (ng)	AMOUNT RECOVERED (ng)	% REC #	QC LIMITS
Phenol	40	28.40	71	40 - 120
bis(2-Chloroethyl) ether	20	15.10	76	50 - 110
2-Chlorophenol	40	29.40	74	50 - 110
n-Nitroso-di-n-propylamine	20	15.30	77	30 - 110
Hexachloroethane	20	15.00	75	20 - 110
Isophorone	20	13.10	66	50 - 110
Naphthalene	20	15.10	76	30 - 110
4-Chloroaniline	40	21.80	55	10 - 120
2,4,6-Trichlorophenol	40	27.70	69	40 - 120
2,4-Dinitrotoluene	20	13.00	65	30 - 120
Diethylphthalate	20	16.00	80	50 - 120
n-Nitrosodiphenylamine	20	14.90	75	30 - 110
Hexachlorobenzene	20	16.10	81	40 - 120
Benzo(a) pyrene	20	15.40	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.

SBLKF6

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: _____ SDG No.: EBZA4

Lab Sample ID: SBLKF6 Date Extracted: 6/30/97

Lab File ID: SBLKF6.D Date Analyzed: 07/02/97

Instrument ID: 5971-024 Time Analyzed: 02:24

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND LCS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	SLCSD5	SLCSD5	SLCSD5.D	07/02/97
02	EBZA4	EBZA4	26646B.D	07/02/97
03	EBZA5	EBZA5	26647B.D	07/02/97
04	EBZA6	EBZA6	26648B.D	07/02/97
05	EBZB9	EBZB9	26649B.D	07/02/97
06	EBZC2	EBZC2	26652B.D	07/02/97
07	EBZC3	EBZC3	26653B.D	07/02/97
08	EBZA4RE	EBZA4RE	26646BR.D	07/02/97
09	EBZC2DL	EBZC2DL	26652DL.D	07/02/97

COMMENTS:

4LCB

LOW CONC. WATER SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLKF7

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: SBLKF7 Date Extracted: 7/1/97

Lab File ID: SBLKF7.D Date Analyzed: 07/02/97

Instrument ID: 5971-024 Time Analyzed: 15:31

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND LCS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	EBZC0	EBZC0	26650B.D	07/02/97
02	EBZC0DL	EBZC0DL	26650DL.D	07/02/97

COMMENTS:

1LCB

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SBLKF6

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: _____ SDG No.: EBZA4

Lab Sample ID: SBLKF6 Date Received: _____

Lab File ID: SBLKF6.D Date Extracted: 06/30/97

Sample Volume: 1000 (ML) Date Analyzed: 07/02/97

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

SBLKF6

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: SBLKF6 Date Received:

Lab File ID: SBLKF6.D Date Extracted: 06/30/97

Sample Volume: 1000 (ML) Date Analyzed: 07/02/97

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.

SBLKF6

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: SBLKF6 Date Received:

Lab File ID: SBLKF6.D Date Extracted: 06/30/97

Sample Volume: 1000 (ML) Date Analyzed: 07/02/97

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

SBLKF7

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: SBLKF7 Date Received:

Lab File ID: SBLKF7.D Date Extracted: 07/01/97

Sample Volume: 1000 (ML) Date Analyzed: 07/02/97

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

SBLKF7

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: SBLKF7 Date Received:

Lab File ID: SBLKF7.D Date Extracted: 07/01/97

Sample Volume: 1000 (ML) Date Analyzed: 07/02/97

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.

SBLKF7

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: SBLKF7 Date Received:

Lab File ID: SBLKF7.D Date Extracted: 07/01/97

Sample Volume: 1000 (ML) Date Analyzed: 07/02/97

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

SLCSD5

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: SLCSD5 Date Received:

Lab File ID: SLCSD5.D Date Extracted: 06/30/97

Sample Volume: 1000 (ML) Date Analyzed: 07/02/97

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	28	
111-44-4	bis(2-Chloroethyl) ether	15	
95-57-8	2-Chlorophenol	29	
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	15	
98-95-3	Nitrobenzene	5	U
78-59-1	Isophorone	13	
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	15	
106-47-8	4-Chloroaniline	22	
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	28	
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

SLCSD5

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: SLCSD5 Date Received:

Lab File ID: SLCSD5.D Date Extracted: 06/30/97

Sample Volume: 1000 (ML) Date Analyzed: 07/02/97

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	16	
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

EBZA4

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: EBZA4 Date Received: 06/27/97

Lab File ID: 26646B.D Date Extracted: 06/30/97

Sample Volume: 1000 (ML) Date Analyzed: 07/02/97

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	12	
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.

MW51

EBZA4

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: EBZA4 Date Received: 06/27/97

Lab File ID: 26646B.D Date Extracted: 06/30/97

Sample Volume: 1000 (ML) Date Analyzed: 07/02/97

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	1	J
117-84-0	Di-n-octylphthalate	5	U J
205-99-2	Benzo(b) fluoranthene	5	U J
207-08-9	Benzo(k) fluoranthene	5	U J
50-32-8	Benzo(a) pyrene	5	U J
193-39-5	Indeno (1,2,3-cd) pyrene	5	U J
53-70-3	Dibenz (ah) anthracene	5	U J
191-24-2	Benzo (ghi) perylene	5	U J

CWB 09/11/97

(1) - Cannot be separated from Diphenylamine

1LCF

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EBZA4

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: EBZA4 Date Received: 06/27/97

Lab File ID: 26646B.D Date Extracted: 06/30/97

Sample Volume: 1000 (ML) Date Analyzed: 07/02/97

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

Injection Volume: 1.0 (uL)

Number TICs found: 11

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. ug/L	Q
1.	unknown	7.11	21	J
2. 020324-32-7	2-Propanol, 1-(2-methoxy-1-methylethoxy	8.02	25	JN
3. 020324-32-7	2-Propanol, 1-(2-methoxy-1-methylethoxy	8.11	19	JN
4.	unknown	8.64	31	J
5. 000144-19-4	1,3-Pentanediol, 2,2,4-trimethyl-	11.42	21	JN
6.	unknown	13.57	24	J
7.	unknown	14.20	13	J
8. 055956-25-7	2-Propanol, 1-[1-methyl-2-(2-propenyloxy	14.27	15	JN
9.	unknown	15.46	32	J
10.	unknown	16.29	16	J
11.	unknown	17.64	16	J

1LCB

EPA SAMPLE NO.

MW51

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EBZA4RE

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: EBZA4RE Date Received: 06/27/97

Lab File ID: 26646BR.D Date Extracted: 06/30/97

Sample Volume: 1000 (ML) Date Analyzed: 07/02/97

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	12	
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

EBZA4RE

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: _____ SDG No.: EBZA4

Lab Sample ID: EBZA4RE Date Received: 06/27/97

Lab File ID: 26646BR.D Date Extracted: 06/30/97

Sample Volume: 1000 (ML) Date Analyzed: 07/02/97

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 J
205-99-2	Benzo(b) fluoranthene	5	U J
207-08-9	Benzo(k) fluoranthene	5	U J
50-32-8	Benzo(a) pyrene	5	U J
193-39-5	Indeno (1,2,3-cd) pyrene	5	U J
53-70-3	Dibenz (ah) anthracene	5	U J
191-24-2	Benzo (ghi) perylene	5	U J

CWB 07/11/97

(1) - Cannot be separated from Diphenylamine

1LCF

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW51

EBZA4RE

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: EBZA4RE Date Received: 06/27/97

Lab File ID: 26646BR.D Date Extracted: 06/30/97

Sample Volume: 1000 (ML) Date Analyzed: 07/02/97

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

Injection Volume: 1.0 (uL)

Number TICs found: 11

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. ug/L	Q
1. 020324-32-7	2-Propanol, 1-(2-methoxy-1-methylethoxy	8.04	26	JN
2. 010143-32-5	2-Propanol, 1-(2-ethoxypropoxy)-	8.12	20	JN
3.	unknown	8.66	32	J
4. 000077-85-0	1,3-Propanediol, 2-(hydroxymethyl)-2-met	9.69	18	JN
5.	unknown	13.59	22	J
6. 000106-62-7	1-Propanol, 2-(2-hydroxypropoxy)-	14.20	13	JN
7. 055956-25-7	2-Propanol, 1-[1-methyl-2-(2-propenyloxy	14.28	15	JN
8. 000632-46-2	Dimethylbenzoic acid isomer	14.54	12	JN
9.	unknown	15.47	32	J
10.	unknown	16.30	16	J
11.	unknown	17.66	17	J

1LCB

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBZA5

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: EBZA5 Date Received: 06/27/97

Lab File ID: 26647B.D Date Extracted: 06/30/97

Sample Volume: 1000 (ML) Date Analyzed: 07/02/97

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	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

EBZA5

MIS

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: EBZA5 Date Received: 06/27/97

Lab File ID: 26647B.D Date Extracted: 06/30/97

Sample Volume: 1000 (ML) Date Analyzed: 07/02/97

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	14	
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.

EBZA5

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: _____ SDG No.: EBZA4

Lab Sample ID: EBZA5 Date Received: 06/27/97

Lab File ID: 26647B.D Date Extracted: 06/30/97

Sample Volume: 1000 (ML) Date Analyzed: 07/02/97

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. 000111-90-0	Ethanol, 2-(2-ethoxyethoxy)-	8.00	10	JN
2. 010544-50-0	Sulfur, mol. (S8)	25.64	38	JN

1LCB

EPA SAMPLE NO.

1M35

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EBZA6

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: EBZA6 Date Received: 06/27/97

Lab File ID: 26648B.D Date Extracted: 06/30/97

Sample Volume: 1000 (ML) Date Analyzed: 07/02/97

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	3	J
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)	4	J
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.

EBZA6

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: EBZA6 Date Received: 06/27/97

Lab File ID: 26648B.D Date Extracted: 06/30/97

Sample Volume: 1000 (ML) Date Analyzed: 07/02/97

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	4	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.

EBZA6

M3S

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: EBZA6 Date Received: 06/27/97

Lab File ID: 26648B.D Date Extracted: 06/30/97

Sample Volume: 1000 (ML) Date Analyzed: 07/02/97

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. 000112-36-7	Ethane, 1,1'-oxybis[2-ethoxy-]	9.65	28	JN

1LCB

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EBZB9

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: EBZB9 Date Received: 06/27/97

Lab File ID: 26649B.D Date Extracted: 06/30/97

Sample Volume: 1000 (ML) Date Analyzed: 07/02/97

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	28	
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

EBZB9

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

M4D

Lab Sample ID: EBZB9 Date Received: 06/27/97

Lab File ID: 26649B.D Date Extracted: 06/30/97

Sample Volume: 1000 (ML) Date Analyzed: 07/02/97

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.

EBZB9

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: EBZB9 Date Received: 06/27/97

Lab File ID: 26649B.D Date Extracted: 06/30/97

Sample Volume: 1000 (ML) Date Analyzed: 07/02/97

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-	8.59	20	JN
2. 007397-62-8	Butyl glycolate	10.34	44	JN

1LCB

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EBZC0

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

M25

Lab Sample ID: EBZC0 Date Received: 06/27/97

Lab File ID: 26650B.D Date Extracted: 07/01/97

Sample Volume: 1000 (ML) Date Analyzed: 07/02/97

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	8	
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)	3	J
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

EBZC0

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: _____ SDG No.: EBZA4

Lab Sample ID: EBZC0 Date Received: 06/27/97

Lab File ID: 26650B.D Date Extracted: 07/01/97

Sample Volume: 1000 (ML) Date Analyzed: 07/02/97

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	110	E
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.

EBZC0

M25

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: EBZC0 Date Received: 06/27/97

Lab File ID: 26650B.D Date Extracted: 07/01/97

Sample Volume: 1000 (ML) Date Analyzed: 07/02/97

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

EBZC0DL

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: EBZC0DL Date Received: 06/27/97

Lab File ID: 26650DL.D Date Extracted: 07/01/97

Sample Volume: 1000 (ML) Date Analyzed: 07/02/97

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

Injection Volume: 1.0 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
108-95-2	Phenol	8	JD
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)	3	JD
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

EBZC0DL

M25

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: EBZC0DL Date Received: 06/27/97

Lab File ID: 26650DL.D Date Extracted: 07/01/97

Sample Volume: 1000 (ML) Date Analyzed: 07/02/97

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	122	D
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.

EBZC0DL

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: EBZC0DL Date Received: 06/27/97

Lab File ID: 26650DL.D Date Extracted: 07/01/97

Sample Volume: 1000 (ML) Date Analyzed: 07/02/97

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

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.

EBZC2

M45

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: EBZC2 Date Received: 06/27/97

Lab File ID: 26652B.D Date Extracted: 06/30/97

Sample Volume: 1000 (ML) Date Analyzed: 07/02/97

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	81	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

EBZC2

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: EBZC2 Date Received: 06/27/97

Lab File ID: 26652B.D Date Extracted: 06/30/97

Sample Volume: 1000 (ML) Date Analyzed: 07/02/97

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 J
205-99-2	Benzo(b) fluoranthene	5	U J
207-08-9	Benzo(k) fluoranthene	5	U J
50-32-8	Benzo(a) pyrene	5	U J
193-39-5	Indeno (1,2,3-cd) pyrene	5	U J
53-70-3	Dibenz (ah) anthracene	5	U J
191-24-2	Benzo (ghi) perylene	5	U J

CWB 09/11/97

(1) - Cannot be separated from Diphenylamine

1LCF

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EBZC2

M4S

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: EBZC2 Date Received: 06/27/97

Lab File ID: 26652B.D Date Extracted: 06/30/97

Sample Volume: 1000 (ML) Date Analyzed: 07/02/97

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

Injection Volume: 1.0 (uL)

Number TICs found: 16

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. ug/L	Q
1.	unknown	8.07	25	J
2. 020324-32-7	2-Propanol, 1-(2-methoxy-1-methylethoxy	8.16	41	JN
3. 001561-86-0	2-Chlorocyclohexanol	8.69	25	JN
4. 000873-94-9	Cyclohexanone, 3,3,5-trimethyl-	8.98	64	JN
5. 000116-02-9	Cyclohexanol, 3,3,5-trimethyl-	9.36	72	JN
6.	unknown	9.65	12	J
7.	unknown siloxane	13.44	17	J
8.	unknown	13.80	27	J
9.	unknown	15.36	10	J
10.	unknown	15.70	62	J
11.	unknown	16.43	21	J
12.	unknown	17.37	18	J
13.	unknown	17.53	14	J
14.	unknown	17.75	20	J
15.	unknown	18.98	15	J
16. 000076-73-3	Secobarbital	22.33	16	JN

1LCB

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EBZC2DL

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: EBZC2DL Date Received: 06/27/97

Lab File ID: 26652DL.D Date Extracted: 06/30/97

Sample Volume: 1000 (ML) Date Analyzed: 07/02/97

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

Injection Volume: 1.0 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
108-95-2	Phenol	3	JD
111-44-4	bis(2-Chloroethyl) ether	92	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

EBZC2DL

M4S

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: _____ SDG No.: EBZA4

Lab Sample ID: EBZC2DL Date Received: 06/27/97

Lab File ID: 26652DL.D Date Extracted: 06/30/97

Sample Volume: 1000 (ML) Date Analyzed: 07/02/97

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.

EBZC2DL

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: EBZC2DL Date Received: 06/27/97

Lab File ID: 26652DL.D Date Extracted: 06/30/97

Sample Volume: 1000 (ML) Date Analyzed: 07/02/97

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

Injection Volume: 1.0 (uL)

Number TICs found: 11

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. ug/L	Q
1. 020324-32-7	2-Propanol, 1-(2-methoxy-1-methylethoxy	8.11	69	JND
2. 000873-94-9	Cyclohexanone, 3,3,5-trimethyl-	8.95	33	JND
3. 000116-02-9	Cyclohexanol, 3,3,5-trimethyl-	9.32	38	JND
4.	unknown	11.45	32	JD
5. 001696-20-4	Morpholine, 4-acetyl-	12.33	25	JND
6.	unknown	13.27	48	JD
7.	unknown	13.66	34	JD
8. 000085-44-9	Phthalic anhydride	14.27	61	JND
9. 055956-25-7	2-Propanol, 1-[1-methyl-2-(2-propenyloxy	14.35	25	JND
10.	unknown	15.57	62	JD
11.	unknown	17.69	21	JD

1LCB

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EBZC3

MW10C

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: _____ SDG No.: EBZA4

Lab Sample ID: EBZC3 Date Received: 06/27/97

Lab File ID: 26653B.D Date Extracted: 06/30/97

Sample Volume: 1000 (ML) Date Analyzed: 07/02/97

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	2	J
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

EBZC3

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: EBZC3 Date Received: 06/27/97

Lab File ID: 26653B.D Date Extracted: 06/30/97

Sample Volume: 1000 (ML) Date Analyzed: 07/02/97

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	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

1LCF

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EBZC3

MW10C

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: EBZC3 Date Received: 06/27/97

Lab File ID: 26653B.D Date Extracted: 06/30/97

Sample Volume: 1000 (ML) Date Analyzed: 07/02/97

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. 020324-32-7	2-Propanol, 1-(2-methoxy-1-methylethoxy	8.04	53	JN
2.	unknown	8.12	29	J
3. 013429-07-7	2-Propanol, 1-(2-methoxypropoxy)-	8.35	12	JN
4.	unknown	8.57	12	J
5.	unknown	15.53	16	J

2LCC
LOW CONC. WATER PESTICIDE SURROGATE RECOVERY

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

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	EBZA4	70	70	65	60			0
02	EBZA5	75	90	70	70			0
03	EBZA6	115	70	70	70			0
04	EBZB9	115	80	95	90			0
05	EBZC0	110	95	90	95			0
06	EBZC2	380*	125	46	47			1
07	EBZC2DL	475D	185D	95	75			0
08	EBZC2RE	360*	135	85	85			1
09	EBZC3	370*	75	80	80			1
10	EBZC3RE	370*	65	60	55			1
11	PBLKF5	80	85	90	90			0
12	PBLKF8	80	80	95	90			0
13	PLCSD4	80	85	110	105			0
14								
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.

PLCSD4

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: LCS063097 LCS Lot No.: A006181

LCS Aliquot: 1000 (uL) Date Extracted: 06/30/97

Concentrated Extract Volume: 2000(uL) Date Analyzed: 07/01/97

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	0.047	94	50-120
Heptachlor epoxide	0.050	0.045	90	50-150
Dieldrin	0.10	0.10	100	30-130
4,4'-DDE	0.10	0.11	110	50-150
Endrin	0.10	0.11	110	50-120
Endosulfan sulfate	0.10	0.096	96	50-120
gamma-Chlordane	0.050	0.049	98	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	0.048	96	50-150
Dieldrin	0.10	0.10	100	30-130
4,4'-DDE	0.10	0.11	110	50-150
Endrin	0.10	0.11	110	50-120
Endosulfan sulfate	0.10	0.10	100	50-120
gamma-Chlordane	0.050	0.051	102	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.

PBLKF5

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Date Extracted: 06/30/97 Lab Sample ID: MB063097

Date Analyzed (1): 07/01/97 Date Analyzed (2): 07/01/97

Time Analyzed (1): 2142 Time Analyzed (2): 2142

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	EBZA4	26646	07/01/97	07/01/97
02	EBZA5	26647	07/01/97	07/01/97
03	EBZA6	26648	07/01/97	07/01/97
04	EBZB9	26649	07/01/97	07/01/97
05	EBZC0	26650	07/02/97	07/02/97
06	EBZC2	26652	07/02/97	07/02/97
07	EBZC2DL	26652DL1:5	07/02/97	07/02/97
08	EBZC3	26653	07/02/97	07/02/97
09	PLCSD4	LCS063097	07/01/97	07/01/97
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.

PBLKF8

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Date Extracted: 07/03/97 Lab Sample ID: MB070397

Date Analyzed (1): 07/07/97 Date Analyzed (2): 07/07/97

Time Analyzed (1): 1325 Time Analyzed (2): 1325

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	EBZC2RE	26652RE	07/07/97	07/07/97
02	EBZC3RE	26653RE	07/07/97	07/07/97
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
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21				
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23				
24				
25				
26				

COMMENTS:

1LCD

LOW CONC. WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLKF5

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: MB063097 Date Received:

Sample Volume: 1000.00 (mL) Date Extracted: 06/30/97

Concentrated Extract Volume: 2000(uL) Date Analyzed: 07/01/97

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.

PBLKF8

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: MB070397 Date Received:

Sample Volume: 1000.00 (mL) Date Extracted: 07/03/97

Concentrated Extract Volume: 2000(uL) Date Analyzed: 07/07/97

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.

PLCSD4(1)

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: LCS063097 Date Received:

Sample Volume: 1000.00 (mL) Date Extracted: 06/30/97

Concentrated Extract Volume: 2000(uL) Date Analyzed: 07/01/97

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)	0.094	
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.090	
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.21	
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	0.19	
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	0.099	
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.

PLCSD4(2)

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: LCS063097 Date Received:

Sample Volume: 1000.00 (mL) Date Extracted: 06/30/97

Concentrated Extract Volume: 2000(uL) Date Analyzed: 07/01/97

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	0.096	
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.21	
72-55-9	4,4'-DDE	0.22	
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	0.20	
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	0.10	
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	0.50	U

1LCD

LOW CONC. WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBZA4

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

MWS.

Lab Sample ID: 26646 Date Received: 06/27/97

Sample Volume: 1000.00 (mL) Date Extracted: 06/30/97

Concentrated Extract Volume: 2000(uL) Date Analyzed: 07/01/97

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.

EBZA5

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

MIS

Lab Sample ID: 26647 Date Received: 06/27/97

Sample Volume: 1000.00 (mL) Date Extracted: 06/30/97

Concentrated Extract Volume: 2000(uL) Date Analyzed: 07/01/97

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.

EBZA6

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

M35

Lab Sample ID: 26648 Date Received: 06/27/97

Sample Volume: 1000.00 (mL) Date Extracted: 06/30/97

Concentrated Extract Volume: 2000(uL) Date Analyzed: 07/01/97

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.

EBZB9

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

M4D

Lab Sample ID: 26649 Date Received: 06/27/97

Sample Volume: 1000.00 (mL) Date Extracted: 06/30/97

Concentrated Extract Volume: 2000(uL) Date Analyzed: 07/01/97

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.

EBZC0

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4 M2

Lab Sample ID: 26650 Date Received: 06/27/97

Sample Volume: 1000.00 (mL) Date Extracted: 06/30/97

Concentrated Extract Volume: 2000(uL) Date Analyzed: 07/02/97

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.

EBZC2

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

M4S

Lab Sample ID: 26652 Date Received: 06/27/97

Sample Volume: 1000.00 (mL) Date Extracted: 06/30/97

Concentrated Extract Volume: 2000(uL) Date Analyzed: 07/02/97

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.

EBZC2DL

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: 26652DL1:5 Date Received: 06/27/97 M4S

Sample Volume: 1000.00 (mL) Date Extracted: 06/30/97

Concentrated Extract Volume: 2000(uL) Date Analyzed: 07/02/97

Injection Volume: 1 (uL) Dilution Factor: 5.0

Sulfur Cleanup: (Y/N) Y Extraction: (SepF/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U
8001-35-2	Toxaphene	5.0	U

1LCD

LOW CONC. WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBZC3

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

MW10C

Lab Sample ID: 26653 Date Received: 06/27/97

Sample Volume: 1000.00 (mL) Date Extracted: 06/30/97

Concentrated Extract Volume: 2000(uL) Date Analyzed: 07/02/97

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.

EBZC2RE

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

M4S

Lab Sample ID: 26652RE Date Received: 06/27/97

Sample Volume: 1000.00 (mL) Date Extracted: 07/03/97

Concentrated Extract Volume: 2000(uL) Date Analyzed: 07/07/97

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.

EBZC3RE

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: 26653RE Date Received: 06/27/97

Sample Volume: 1000.00 (mL) Date Extracted: 07/03/97 MW10C

Concentrated Extract Volume: 2000(uL) Date Analyzed: 07/07/97

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

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: 25525 Site Name Location: American Chem SVC

Contractor or EPA Lab: Rollins Data User: B+V

No. of Samples: 9 Date Sampled or Data Received: 7-14-97

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: 9 No. of samples received: 9

Received by: Lynette Burnett Date: 7-14-97

Received by LSSS: Lynette Burnett Date: 7-14-97

Review started: 7-18-97 Reviewer Signature: Stephanie N. Tohm

Total time spent on review: 8 hrs Date review completed: 7-22-97

Copied by: Lynette Burnett Date: 7-28-97

Mailed to user by: Lynette Burnett Date: 7-28-97

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: _____

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: 24-Oct-97
From: Steve Mrkvicka
Project: American Chemical Services
Project No.: 71670
File: C.3

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

[ ] Preliminary Report
[ ] Final Report
[XXX] Other: Data Evaluation Report
Third Quarterly Sampling Event
June 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 Third Quarterly Sampling Round that occurred in June 1997.

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

American Chemical Services
Work Assignment 80-5PJ7

Copy To: P. Hendrixson, USEPA (w/o enclosure); E. Howard, USEPA (w/o enclosure)

Signed: 24-Oct-97

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