UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION III
CENTRAL REGIONAL LABORATORY
839 BESTGATE ROAD
ANNAPOLIS, MARYLAND 21401
(301) 266-9180

DATE : September 11, 1991

SUBJECT : Region III Data QA Review

FROM : Theresa A. Simpson
Region III ESAT RPO (3ES31)

TO : Jerry Saseen
Regional Project Manager (3HW32)

Attached is the organic data validation report for the A-1 Auto Body Site (Case 16472) completed by the Region III Environmental Services Assistance Team (ESAT) contractor under the direction of Region III ESD.

If you have any questions regarding this review, please call me.

Attachment

cc: Jeff Dragon, Weston
Edward Kantor, EMSL-LV
Regional CLP TPO: D. Szaro/M. Lataille Region: I Lab Code: ITPA

TID File: 03910218 Task 2512

revised 03/91

WESTON
2568A RIVA ROAD
SUITE 300
ANNAPOLIS, MD 21401
PHONE: 301-266-9887

DATE: September 10,1991

SUBJECT: Organic Data Validation for Case 16472
Site: A-1 Auto Body

FROM: Craig D. Olson
Organic Data Reviewer

Don O'Brien
Organic Data Reviewer

TO: Terry Simpson
ESAT Deputy Project Officer

THRU: Dan Dresser
ESAT Team Manager

OVERVIEW

Case 16472 consisted of four (4) soil samples and two (2) associated aqueous blanks submitted to CEIMIC for volatile, semivolatile and pesticide/PCB analysis. Included with the case were one (1) rinsate blank and one (1) trip blank. The trip blank was analyzed for volitales only. Soil samples CGB60 and CGB61 were not analyzed for volitales. The samples were analyzed as a Contract Laboratory Program (CLP) Routine Analytical Service (RAS).

SUMMARY

All samples were successfully analyzed for all target compounds. All instrument and method sensitivities were according to the Contract Laboratory Program (CLP) Routine Analytical Service (RAS) protoc l.

MINOR PROBLEMS

- The volatiles analyses of soil samples CGB62, CGB63 and aqueous sample CGB65 were performed eight to nine (8-9) days from the date of sample collection. Although no technical holding time has been established for soil samples, the technical holding time of seven (7) days for volatile aromatic compounds in unpreserved water samples has been exceeded by one to two (1-2) days. The quantitation limits were qualified "UL" for these compounds in these samples, except when superseded by the "UJ" qualifier.

- The area of the Internal Standard, chlorobenzene-d5, was below the lower QC limit in soil sample CGB62. The positive results and quantitation limits were qualified "J" and "UJ", respectively, for compounds quantitated using this Internal Standard. (See Form VIII, Appendix F).

- Several compounds failed precision criteria in the initial and/or continuing volatile and semivolatile calibrations. The quantitation limits were qualified "UJ", and positive results were qualified "J", unless superseded by the "B" qualifier, for these compounds in the affected samples. (See Table I in Appendix F.)

- The percent differences (%D) between calibration factors exceeded 15% on the quantitation columns for several compounds in the INDA MIX run on 6/25/91 at 1318 and in the INDB MIX run on 6/25/91 at 1459 hours. The positive result for Dieldrin was qualified "J". The percent difference (%D) between calibration factors exceeded 20% on the confirmation column with the INDA run of 6/26/91 at 0131 and INDB runs of 6/25/91 at 2348 and 6/26/91 at 0209 hours. (See Form IX's in Appendix F.)

NOTES

- The maximum concentrations of all compounds found in the analyses of the trip, rinsate, or laboratory method blanks are listed below. All samples with concentrations of common laboratory contaminants less than ten times (<10X) the blank concentrations have been qualified "B" on the data summary forms.

Compound	Concentration ug/L
Methylene chloride *	33
Acetone *	89

* = Common laboratory contaminant

- DFTPP injection time reported on Form V for the GC/MS tuning of 6/19/91 was incorrect. The injection time was corrected by the Data Reviewer using raw data information. Copies of the corrected Form V and associated data are included in Appendix F.

- The tentatively identified compounds (TICs) in Appendix D were reviewed and corrected during data validation. Compounds identified as blank contaminants were crossed-off the TIC Form I's.

- Non-spiked compounds, excluding blank contaminants, were determined in the MS/MSD analyses of samples CGB63 and CGB61. The results and precision estimates are listed in the following table:

Compound	Concentration (ug/Kg) CGB63	63MS	63MSD	%RSD
Naphthalene	ND	620J	670J	+
2-Methylnapththalene	710J	960J	1000J	18
Phenanthrene	1400J	1700J	1800J	13
Fluoranthene	2500J	3300J	3100J	14
Butylbenzylphthalate	740J	850J	670J	12
Benzo(a)anthracene	1300J	1700J	1800J	16
Chrysene	1700J	2200J	2100J	13
bis (2-Ethylhexyl)phthalate	650J	1200J	870J	30
Benzo(b)fluoranthene	2200J	2600J	3600J	26
Benzo(k)fluoranthene	1700J	3000J	1900J	32
Benzo(a)pyrene	1700J	2400J	2400J	19
Indeno(1,2,3-cd)pyrene	2000J	2500J	2100J	12
Benzo(g,h,i)perylene	1800J	2300J	1800J	15

Compound	Concentration (ug/Kg) CGB61	61MS	61MSD	%RSD
Aroclor 1248	2400	1400	1400	33
Aroclor 1254	4200	3200	3200	16

%RSD = Percent relative standard deviation
ND = Compound not detected in sample
\+ = Value is relative percent difference

- Sample weights for the semivolatile and pesticide/PCB analyses of soil samples varied from the 30 g prescribed by the method. The dilution factors reported on the Form I's have been changed to reflect the sample weights used.

- Recovery of the pesticide/PCB surrogate was greater than the QC limits for samples CGB61, CGB62, CGB63, CGB61MS, CGB61MSD. Examination of the raw data indicated an interference that affected surrogate recoveries, however, earlier material separated correctly. Zero (0) percent surrogate recovery was obtained in samples CGB61DL, CGB61MSDL, and CGB61MSDDL because of dilutions. No data were qualified because of surrogate recoveries. (See Form II, Appendix F.)

- An "x" qualifier is flagged by the Formaster software whenever the data is manually edited.

All data for Case 16472 were reviewed accordance with the Functional Guidelines for Evaluating Organic Analyses with Modifications for use within Region III. The text of this report addresses only those problems affecting usability.

ATTACHMENTS

1) Appendix A - Glossary of Data Qualifiers
2) Appendix B - Data Summary. These include:
   (a) All positive results for target compounds with qualifier codes where applicable.
   (b) All unusable detection limits (qualified "R").
3) Appendix C - Results as Reported by the Laboratory for All Target Compounds
4) Appendix D - Revised and Corrected Tentatively Identified Compounds
5) Appendix E - Organic Regional Data Assessment Summary
6) Appendix F - Support Documentation

DCN: C0109A04.A-1

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Appendix A

Glossary of Data Qualifiers

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GLOSSARY OF DATA QUALIFIER CODES (ORGANIC)

CODES RELATING TO IDENTIFICATION
(confidence concerning presence or absence of compounds)

U = Not detected. The associated number indicates approximate sample concentration necessary to be detected.

NO CODE = Confirmed identification.

B = Not detected substantially above the level reported in laboratory or field blanks.

R = Unreliable result. Analyte may or may not be present in the sample. Supporting data necessary to confirm result.

N = Tentative identification. Consider present. Special methods may be needed to confirm its presence or absence in future sampling efforts.

CODES RELATED TO QUANTITATION
(can be used for both positive results and sample quantitation limits):

J = Analyte present. Reported value may not be accurate or precise.

K = Analyte present. Reported value may be biased high. Actual value is expected to be lower.

L = Analyte present. Reported value may be biased low. Actual value is expected to be higher.

UJ = Not detected, quantitation limit may be inaccurate or imprecise.

UL = Not detected, quantitation limit is probably higher.

OTHER CODES

Q = No analytical result.

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Appendix B

Data Summary Forms

DATA SUMMARY FORM: V O L A T I L E S 1

Site Name: A-1 Auto Body

Case #: 16472 Sampling Date(s): 5/21/91

WATER SAMPLES
(µg/L)

To calculate sample quantitation limi
(CRQL * Dilution Facto

CRQL	COMPOUND	Sample No.	CGB64		CGB65	
		Dilution Factor	1.0		1.0	
		location	R 10		T 11	
			Blank		TRIP Blank	
10	Chloromethane			U		
10	Bromomethane			U		
10	*Vinyl Chloride					
10	Chloroethane					
5	*Methylene Chloride		21	B	33	
10	Acetone		89	J	16	B
5	Carbon Disulfide					
5	*1,1-Dichloroethene					
5	1,1-Dichloroethane					
5	*Total 1,2-Dichloroethene					
5	Chloroform					
5	*1,2-Dichloroethane					
10	*2-Butanone					
5	*1,1,1-Trichloroethane					
5	*Carbon Tetrachloride					
10	Vinyl Acetate					
5	Bromodichloromethane					

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CRQL = Contract Required Quantitation Limit

*Action Level Exists

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DATA SUMMARY FORM: VOLATILES 2

WATER SAMPLES
(µg/L)

Site Name: A-1 Auto Body

Case #: 16472 Sampling Date(s): 5/21/91

To calculate sample quantitation limit:
(CRQL * Dilution Factor)

CRQL	COMPOUND	Sample No.	CGB64	CGB65							
		Dilution Factor	1.0	1.0							
		location	R 10	R 11							
			Rinsate	Trip Blank							
5	*1,2-Dichloropropane										
5	Cis-1,3-Dichlorpropane										
5	Trichloroethene										
5	Dibromochloromethane										
5	1,1,2-Trichlorethane										
5	*Benzene				UL						
5	Trans-1,3-Dichloropropene										
5	Bromoform										
10	4-Methyl-2-pentanone										
10	2-Hexanone										
5	*Tetrachloroethene										
5	1,1,2,2-Tetrachloroethane										
5	*Toluene				UL						
5	*Chlorobenzene										
5	*Ethylbenzene										
5	*Styrene										
5	*Total Xylenes										

CRQL = Contract Required Quantitation Limit *... n Level Exists SEE NARRATIVE FO... DE DEFINITIO...

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DATA SUMMARY FORM: B N A S 3

Site Name: A-1 Auto Body

Case #: 16472 Sampling Date(s): 5/21/91

SOIL SAMPLES
(µg/Kg)

To calculate sample quantitation limit:
(CRQL * Dilution Factor) / ((100 - % moisture)/100)

CRQL	Compound	Sample No.		C6B60		C6B61		C6B62		C6B63	
		Dilution Factor		457		197		1.98		7.9	
		% Moisture		4		4		3		31	
		Location		Sep 1		Sep 2		Sep 3		Sep 4	
330	N-Nitrosodiphenylamine										
330	4-Bromophenyl-phenylether				U		U				
330	Hexachlorobenzene										
1600	Pentachlorophenol										
330	Phenanthrene							540	J	1400	J
330	Anthracene										
330	Di-n-butylphthalate										
330	Fluoranthene							970		2500	J
330	Pyrene							800		2400	J
330	Butylbenzylphthalate	10000	J	19000	J					790	J
660	3,3'-Dichlorobenzidine										
330	Benzo(a)anthracene							370	J	1300	J
330	Chrysene							360	J	1700	J
330	bis(2-Ethylhexyl)phthalate	100000		26000	J	120	J	650	J		
330	Di-n-octylphthalate										
330	Benzo(b)fluoranthene							640	J	2700	J
330	Benzo(k)fluoranthene							190	J	1200	J
330	Benzo(a)pyrene							370	J	1700	J
330	Indeno(1,2,3-cd)pyrene				U		U	180	J	1300	J
330	Dibenz(a,h)anthracene										
330	Benzo(g,h)perylene							150	J	1300	J

CRQL = Contract Required Quantitation Limit

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DATA SUMMARY FORM: V O L A T I L E S 1

Site Name: A-1 Auto Body

Case #: 16472 Sampling Date(s): 5/21/91

SOIL SAMPLES
(ug/Kg)

To calculate sample quantitation limit:
(CRQL * Dilution Factor) / ((100 - % moisture)/100)

CRQL	COMPOUND	Sample No.		CGB62		CGB63													
		Dilution Factor		1.0		1.0													
		% Moisture		3		52													
		location		SOB		SOG													
10	Chloromethane																		
10	Bromomethane				UJ		UJ												
10	Vinyl Chloride																		
10	Chloroethane																		
5	Methylene Chloride				UJ	11	B												
10	Acetone	22	B																
5	Carbon Disulfide																		
5	1,1-Dichloroethene																		
5	1,1-Dichloroethane																		
5	Total 1,2-Dichloroethene																		
5	Chloroform																		
5	1,2-Dichloroethane				UJ														
10	2-Butanone						UJ												
5	1,1,1-Trichloroethane					8	J												
5	Carbon Tetrachloride																		
10	Vinyl Acetate																		
5	Bromodichloromethane				UJ														
10																			
5																			
5																			

CRQL = Cont[illegible] Required Quantitation Limit

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DATA SUMMARY FORM: V O L A T I L E S 2

Site Name: A-1 Auto Body

Case #: 16472 Sampling Date(s): 5/21/91

SOIL SAMPLES
(ug/Kg)

To calculate sample quantitation lim
(CRQL * Dilution Factor) / ((100 - % moisture)/1

CRQL	COMPOUND	Sample No.	CGB62		CGB63									
		Dilution Factor	1.0		1.0									
		% Moisture	3		52									
		location												
5	1,2-Dichloropropane													
5	Cis-1,3-Dichloropropene													
5	Trichloroethene													
5	Dibromochloromethane													
5	1,1,2-Trichloroethane													
5	Benzene			U		U								
5	Trans-1,3-Dichloropropene													
5	Bromoform			U										
10	4-Methyl-2-pentanone		19	J										
10	2-Hexanone			U		U								
5	Tetrachloroethene													
5	1,1,2,2,-Tetrachloroethane													
5	Toluene					U								
5	Chlorobenzene													
5	Ethylbenzene													
5	Styrene													
5	Total Xylenes													

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CRQL = Contract Required Quantitation Limit

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DATA SUMMARY FORM: S N A S 1

Site Name: A-1 Auto Body

Case #: 16172 Sampling Date(s): 5/21/91

WATER SAMPLES
(µg/L)

To calculate sample quantitation limit:
(CRQL * Dilution Factor)

CRQL	COMPOUND	Sample No.									
		CGB 64									
	Dilution Factor	1.0									
	Location	P 10									
		Rinsate									
10	Phenol										
10	bis(2-Chloroethyl)ether										
10	2-Chlorophenol										
10	*1,3-Dichlorobenzene										
10	*1,4-Dichlorobenzene										
10	Benzyl Alcohol										
10	1,2-Dichlorobenzene										
10	2-Methylphenol										
10	bis(2-Chloroisopropyl)ether										
10	4-Methylphenol										
10	N-Nitroso-di-n-propylamine										
10	Hexachloroethane										
10	Nitrobenzene										
10	Isophorone										
10	2-Nitrophenol										
10	2,4-Dimethylphenol										
10	Benzoic Acid		12J								
10	bis(2-Chloroethoxy)methane										
10	2,4-Dichlorophenol										
10	1,2,4-Trichlorobenzene										
10	Naphthalene										
10	4-Chloroaniline										

CRQL = Co[illegible]ct Required Quantitation Limit

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DATA SUMMARY FORM: B N A S 2

WATER SAMPLES
(µg/L)

Site Name: A-1 Auto Body

Case #: 16472 Sampling Date(s): 5/21/91

To calculate sample quantitation limit:
(CRQL * Dilution Factor)

CRQL	COMPOUND											
Sample No.		C6364										
Dilution Factor		1.0										
location		R10										
		Rinsate										
10	Hexachlorobutadiene											
10	4-Chloro-3-methylphenol											
10	2-Methylnaphthalene											
10	Hexachlorocyclopentadiene		UJ									
10	2,4,6-Trichlorophenol											
50	2,4,5-Trichlorophenol											
10	2-Chloronaphthalene											
50	2-Nitroaniline											
10	Dimethylphthalate											
10	Acenaphthylene											
10	2,6-Dinitrotoluene											
50	3-Nitroaniline											
10	Acenaphthene											
50	2,4-Dinitrophenol		UJ									
50	4-Nitrophenol											
10	Dibenzofuran											
10	2,4-Dinitrotoluene											
10	Diethylphthalate		UJ									
10	4-Chlorophenyl-phenylether											
10	Fluorene											
50	4-Nitroaniline											
50	4,6-Dinitro-2-methylphenol											

CRQL = Contract Required Quantitation Limit

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DATA SUMMARY FORM: B N A S 3

Site Name: A-1 Auto Body

Case #: 16472 Sampling Date(s): 5/21/91

WATER SAMPLES
(µg/L)

To calculate sample quantitation limi
(CRQL * Dilution Facto

CRQL	COMPOUND	Sample No.																			
		Dilution Factor																			
		Location																			
			CGB 64																		
			1.0																		
			D 10																		
			Rinsate																		
10	N-Nitrosodiphenylamine																				
10	4-Bromophenyl-phenylether																				
10	*Hexachlorobenzene																				
50	*Pentachlorophenol																				
10	Phenanthrene																				
10	Anthracene																				
10	Di-n-butylphthalate																				
10	Fluoranthene																				
10	Pyrene																				
10	Butylbenzylphthalate																				
20	3,3'-Dichlorobenzidine																				
10	Benzo(a)anthracene																				
10	Chrysene																				
10	bis(2-Ethylhexyl)phthalate																				
10	Di-n-[illegible]phthalate																				
10	Benzo(b)fluoranthene																				
10	Benzo(k)fluoranthene		U																		
10	Benzo(a)pyrene																				
10	Indeno(1,2,3-cd)pyrene																				
10	Dibenz(a,h)anthracene																				
10	Benzo(g,h,i)perylene																				

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DATA SUMMARY FORM: B N A S 1

te Name: A-1 Auto Body

SOIL SAMPLES
(µg/Kg)

so #: 16472 Sampling Date: 5/21/91

To calculate sample quantitation limit:
(CRQL * Dilution Factor) / ((1 - % moisture)/100)

	Sample No.	CGB01	CGB01	CGB02	CGB03					
	Dilution Factor	40.1	197	1.98	7.9					
	% Moisture	4	4		51					
	location	SB 1	SB 2		SB 3					
CRQL	COMPOUND									
330	Phenol									
330	bis(2-Chloroethyl)ether									
330	2-Chlorophenol									
330	1,3-Dichlorobenzene									
330	1,4-Dichlorobenzene									
330	Benzyl Alcohol									
330	1,2-Dichlorobenzene									
330	2-Methylphenol									
330	bis(2-Chloroisopropyl)ether									
330	4-Methylphenol									
330	N-Nitroso-di-n-propylamine									
330	Hexachloroethane									
330	Nitrobenzene									
330	Isophorone									
330	2-Nitrophenol									
330	2,4-Dimethylphenol									
1600	Benzoic Acid									
330	bis(2-Chloroethoxy)methane					U				
330	2,4-Dichlorophenol									
330	1,2,4-Trichlorobenzene									
330	Naphthalene									
330	4-Chloroaniline									

CRQL = Contract Required Quantitation Limit

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DATA SUMMARY FORM: B N A S 2

Site Name: A-1 Auto Body

Case #: 16172 Sampling Date(s): 5/21/91

SOIL SAMPLES
(ug/Kg)

To calculate sample quantitation limit:
(CRQL * Dilution Factor) / ((100 - % moisture)/100)

CRQL	COMPOUND	Sample No.															
		Dilution Factor															
		% Moisture															
		Location															
330	Hexachlorobutadiene																
330	4-Chloro-3-methylphenol																
330	2-Methylnaphthalene																
330	Hexachlorocyclopentadiene		UJ		UJ		UJ		770	J							
330	2,4,6-Trichlorophenol																
1600	2,4,5-Trichlorophenol																
330	2-Chloronaphthalene																
1600	2-Nitroaniline																
330	Dimethylphthalate																
330	Acenaphthylene																
330	2,6-Dinitrotoluene																
1600	3-Nitroaniline																
330	Acenaphthene																
1600	2,4-Dinitrophenol		UJ		UJ		UJ			UJ							
1600	4-Nitrophenol																
330	Dibenzofuran																
330	2,4-Dinitrotoluene																
330	Diethylphthalate																
330	4-Chlorophenyl-phenylether																
330	Fluorene																
1600	4-Nitroaniline																
1600	4,6-Dinitro-2-methylphenol																

CRQL = Contract Required Quantitation Limit

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DATA SUMMARY FORM: P E S T I C I D E S A N D P C B ' S

Site Name: A-1 Auto Body

Case #: 16472 Sampling Date(s): 5/21/91

WATER SAMPLES
(ug/L)

To calculate sample quantitation limi
- (CRQL * Dilution Facto

SDG No. R0018

CRQL	COMPOUND	Sample No.										
	Dilution Factor	6B64										
	Location	1										
		R10										
		Ringsto										
0.05	alpha-BHC											
0.05	beta-BHC											
0.05	delta-BHC											
0.05	*gamma-BHC (Lindane)											
0.05	*Heptachlor											
0.05	Aldrin											
0.05	Heptachlor Epoxide											
0.05	Endosulfan I											
0.10	Dieldrin											
0.10	4,4'-DDE											
0.10	*Endrin											
0.10	Endosulfan II											
0.10	4,4'-DDD											
0.10	Endosulfan Sulfate											
0.10	4,4'-DDT											
0.50	*Methoxychlor											
0.10	Endrin Ketone											
0.50	*alpha-Chlordane											
0.50	*gamma-Chlordane											
1.0	*Toxaphene											
0.50	*Aroclor-1016											
0.50	*Aroclor-1221											
0.50	*Aroclor-1232											
0.50	*Aroclor-1242											
0.50	*Aroclor-1248											
1.0	*Aroclor-1254											
1.0	*Aroclor-1260											

CRQL = Contract Required Quantitation Limit

*Action Level Exists

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DATA SUMMARY FORM: PESTICIDES AND PCB'S

Site Name: A-1 Auto Body

Case #: 16172 Sampling Date(s): 5/21/91

SOIL SAMPLES
(ug/Kg)

To calculate sample quantitation limit:
(CRQL * Dilution Factor) /-((100 - % moisture))/100)

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CRQL	COMPOUND	Sample No.	C6B60	C6B61	C6B62	C6B63					
		Dilution Factor	4.83	4.95	11.93	5					
		% Moisture	4	4	5	5					
		location	Sb 1	Sb 2	Sb 3	Sb 4					
8	alpha-BHC										
8	beta-BHC										
8	delta-BHC										
8	gamma-BHC (Lindane)										
8	Heptachlor										
8	Aldrin										
8	Heptachlor Epoxide										
8	Endosulfan I										
16	Dieldrin				320	J					
16	4,4'-DDE										
16	Endrin										
16	Endosulfan II										
16	4,4'-DDD										
16	Endosulfan Sulfate										
16	4,4'-DDT										
80	Methoxychlor										
16	Endrin Ketone										
80	alpha-Chlordane										
80	gamma-Chlordane										
160	Toxaphene										
80	Aroclor-1016										
80	Aroclor-1221										
80	Aroclor-1232										
80	Aroclor-1242										
80	Aroclor-1248		730		2400		2340				
160	Aroclor-1254		1400	J	420		1000				
160	Aroclor-1260										

CRQL = Contract Required Quantitation Limit

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Appendix C

Results as Reported by the Laboratory
for all Target Compounds

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO: CGB60

Lab Name: CEIMIC CORP Contract: 68D90024

Lab Code: CEIMIC Case No.: 16472 SAS No.: _____ SDG No.: CGB

Matrix: (soil/water) SOIL Lab Sample ID: 910251-01

Sample wt/vol: 30.2 (g/mL) G Lab File ID: A7991

Level: (low/med) LOW Date Received: 05/23/91

% Moisture: not dec. 4 dec. ____ Date Extracted: 05/24/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 06/13/91

GPC Cleanup: (Y/N) N pH: 6.9 Dilution Factor: 50

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

CAS NO.	COMPOUND		Q
108-95-2	Phenol	17000	U
111-44-4	bis(2-Chloroethyl)Ether	17000	U
95-57-8	2-Chlorophenol	17000	U
541-73-1	1,3-Dichlorobenzene	17000	U
106-46-7	1,4-Dichlorobenzene	17000	U
100-51-6	Benzyl Alcohol	17000	U
95-50-1	1,2-Dichlorobenzene	17000	U
95-48-7	2-Methylphenol	17000	U
108-60-1	bis(2-Chloroisopropyl)Ether	17000	U
106-44-5	4-Methylphenol	17000	U
621-64-7	N-Nitroso-Di-n-Propylamine	17000	U
67-72-1	Hexachloroethane	17000	U
98-95-3	Nitrobenzene	17000	U
78-59-1	Isophorone	17000	U
88-75-5	2-Nitrophenol	17000	U
105-67-9	2,4-Dimethylphenol	17000	U
65-85-0	Benzoic Acid	83000	U
111-91-1	bis(2-Chloroethoxy)Methane	17000	U
120-83-2	2,4-Dichlorophenol	17000	U
120-82-1	1,2,4-Trichlorobenzene	17000	U
91-20-3	Naphthalene	17000	U
106-47-8	4-Chloroaniline	17000	U
87-68-3	Hexachlorobutadiene	17000	U
59-50-7	4-Chloro-3-Methylphenol	17000	U
91-57-6	2-Methylnaphthalene	17000	U
77-47-4	Hexachlorocyclopentadiene	17000	U
88-06-2	2,4,6-Trichlorophenol	17000	U
95-95-4	2,4,5-Trichlorophenol	83000	U
91-58-7	2-Chloronaphthalene	17000	U
88-74-4	2-Nitroaniline	83000	U
131-11-3	Dimethyl Phthalate	17000	U
208-96-8	Acenaphthylene	17000	U
606-20-2	2,6-Dinitrotoluene	17000	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE N

CQB60

Lab Name: CEIMIC CORP Contract: 68D90024

Lab Code: CEIMIC Case No.: 16472 SAS No.: _____ SDG No.: CQB60

Matrix: (soil/water) SOIL Lab Sample ID: 910261-01

Sample wt/vol: 30.2 (g/mL) G Lab File ID: A7891

Level: (low/med) LOW Date Received: 05/23/91

% Moisture: not dec. 4 dec. ____ Date Extracted: 05/24/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 06/19/91

GPC Cleanup: (Y/N) N pH: 6.9 Dilution Factor: 50

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

CAS NO.	COMPOUND	Q
99-09-2	3-Nitroaniline	83000 U
83-32-9	Acenaphthene	17000 U
51-28-5	2,4-Dinitrophenol	83000 U
100-02-7	4-Nitrophenol	83000 U
132-64-9	Dibenzofuran	17000 U
121-14-2	2,4-Dinitrotoluene	17000 U
84-66-2	Diethylphthalate	17000 U
7005-72-3	4-Chlorophenyl-phenylether	17000 U
86-73-7	Fluorene	17000 U
100-01-6	4-Nitroaniline	83000 U
534-52-1	4,6-Dinitro-2-Methylphenol	83000 U
86-30-6	N-Nitrosodiphenylamine (1)	17000 U
101-55-3	4-Bromophenyl-phenylether	17000 U
118-74-1	Hexachlorobenzene	17000 U
87-86-5	Pentachlorophenol	83000 U
85-01-8	Phenanthrene	17000 U
120-12-7	Anthracene	17000 U
84-74-2	Di-n-Butylphthalate	17000 U
206-44-0	Fluoranthene	17000 U
129-00-0	Pyrene	17000 U
85-68-7	Butylbenzylphthalate	10000 J
91-94-1	3,3'-Dichlorobenzidine	34000 U
56-55-3	Benzo(a)Anthracene	17000 U
218-01-9	Chrysene	17000 U
117-81-7	bis(2-Ethylhexyl)Phthalate	100000
117-84-0	Di-n-Octyl Phthalate	17000 U
205-99-2	Benzo(b)Fluoranthene	17000 U
207-08-9	Benzo(k)Fluoranthene	17000 U
50-32-8	Benzo(a)Pyrene	17000 U
193-39-5	Indeno(1,2,3-cd)Pyrene	17000 U
53-70-3	Dibenz(a,h)Anthracene	17000 U
191-24-2	Benzo(g,h,i)Perylene	17000 U

(1) - Cannot be separated from Diphenylamine

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1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CQB60

Lab Name: CEIMIC CORP Contract: 68D90024

Lab Code: CEIMIC Case No.: 164T2 SAS No.: _____ SDG No.: CQB60

Matrix: (soil/water) SOIL Lab Sample ID: 910261-01

Sample wt/vol: 30.3 (g/ml) G Lab File ID: _____

Level: (low/med) LOW Date Received: 05/23/91

% Moisture: not dec. 4 dec. _____ Date Extracted: 05/24/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 06/23/91

GPC Cleanup: (Y/N) N pH: 6.9 Dilution Factor: 10

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	82	U
319-85-7	beta-BHC	82	U
319-86-8	delta-BHC	82	U
58-89-9	gamma-BHC (Lindane)	82	U
76-44-8	Heptachlor	82	U
309-00-2	Aldrin	82	U
1024-57-3	Heptachlor epoxide	82	U
959-98-8	Endosulfan I	82	U
60-57-1	Dieldrin	160	U
72-55-9	4,4'-DDE	160	U
72-20-8	Endrin	160	U
33213-65-9	Endosulfan II	160	U
72-54-8	4,4'-DDD	160	U
1031-07-8	Endosulfan sulfate	160	U
50-29-3	4,4'-DDT	160	U
72-43-5	Methoxychlor	820	U
53494-70-5	Endrin ketone	160	U
5103-71-9	alpha-Chlordane	820	U
5103-74-2	gamma-Chlordane	820	U
8001-35-2	Toxaphene	1600	U
12674-11-2	Aroclor-1016	820	U
11104-28-2	Aroclor-1221	820	U
11141-16-5	Aroclor-1232	820	U
53469-21-9	Aroclor-1242	820	U
12672-29-6	Aroclor-1248	1100	
11097-69-1	Aroclor-1254	1400	J
11096-82-5	Aroclor-1260	1600	U

1B

EPA SAMPLE N

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CGB61

Lab Name: CEIMIC CORP Contract: 68D90034

Lab Code: CEIMIC Case No.: 15472 SAS No.: _____ SDG No.: CGB60

Matrix: (soil/water) SOIL Lab Sample ID: 910261-02

Sample wt/vol: 30.5 (g/mL) G Lab File ID: A7890

Level: (low/med) LOW Date Received: 05/23/91

% Moisture: not dec. 4 dec. ____ Date Extracted: 05/24/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 06/19/91

GPC Cleanup: (Y/N) N pH: 6.6 Dilution Factor: 200

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	69000	U
111-44-4	bis(2-Chloroethyl)Ether	69000	U
95-57-8	2-Chlorophenol	69000	U
541-73-1	1,3-Dichlorobenzene	69000	U
106-46-7	1,4-Dichlorobenzene	69000	U
100-51-6	Benzyl Alcohol	69000	U
95-50-1	1,2-Dichlorobenzene	69000	U
95-48-7	2-Methylphenol	69000	U
108-60-1	bis(2-Chloroisopropyl)Ether	69000	U
106-44-5	4-Methylphenol	69000	U
621-64-7	N-Nitroso-Di-n-Propylamine	69000	U
67-72-1	Hexachloroethane	69000	U
98-95-3	Nitrobenzene	69000	U
78-59-1	Isophorone	69000	U
88-75-5	2-Nitrophenol	69000	U
105-67-9	2,4-Dimethylphenol	69000	U
65-85-0	Benzoic Acid	330000	U
111-91-1	bis(2-Chloroethoxy)Methane	69000	U
120-83-2	2,4-Dichlorophenol	69000	U
120-82-1	1,2,4-Trichlorobenzene	69000	U
91-20-3	Naphthalene	69000	U
106-47-8	4-Chloroaniline	69000	U
87-68-3	Hexachlorobutadiene	69000	U
59-50-7	4-Chloro-3-Methylphenol	69000	U
91-57-6	2-Methylnaphthalene	69000	U
77-47-4	Hexachlorocyclopentadiene	69000	U
88-06-2	2,4,6-Trichlorophenol	69000	U
95-95-4	2,4,5-Trichlorophenol	330000	U
91-58-7	2-Chloronaphthalene	69000	U
88-74-4	2-Nitroaniline	330000	U
131-11-3	Dimethyl Phthalate	69000	U
208-96-8	Acenaphthylene	69000	U
606-20-2	2,6-Dinitrotoluene	69000	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CGB61

Lab Name: CEIMIC CORP Contract: 68D90024

Lab Code: CEIMIC Case No.: 16472 SAS No.: _____ SDG No.: CGB60

Matrix: (soil/water) SOIL Lab Sample ID: 910261-02

Sample wt/vol: 30.5 (g/mL) G Lab File ID: A7890

Level: (low/med) LOW Date Received: 05/23/91

% Moisture: not dec. 4 dec. ____ Date Extracted: 05/24/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 06/13/91

GPC Cleanup: (Y/N) N pH: 6.6 Dilution Factor: 200

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	330000	U
83-32-9	Acenaphthene	69000	U
51-28-5	2,4-Dinitrophenol	330000	U
100-02-7	4-Nitrophenol	330000	U
132-64-9	Dibenzofuran	69000	U
121-14-2	2,4-Dinitrotoluene	69000	U
84-66-2	Diethylphthalate	69000	U
7005-72-3	4-Chlorophenyl-phenylether	69000	U
86-73-7	Fluorene	69000	U
100-01-6	4-Nitroaniline	330000	U
534-52-1	4,6-Dinitro-2-Methylphenol	330000	U
86-30-6	N-Nitrosodiphenylamine (1)	69000	U
101-55-3	4-Bromophenyl-phenylether	69000	U
118-74-1	Hexachlorobenzene	69000	U
87-86-5	Pentachlorophenol	330000	U
85-01-8	Phenanthrene	69000	U
120-12-7	Anthracene	69000	U
84-74-2	Di-n-Butylphthalate	69000	U
206-44-0	Fluoranthene	69000	U
129-00-0	Pyrene	69000	U
85-68-7	Butylbenzylphthalate	19000	J
91-94-1	3,3'-Dichlorobenzidine	140000	U
56-55-3	Benzo(a)Anthracene	69000	U
218-01-9	Chrysene	69000	U
117-81-7	bis(2-Ethylhexyl)Phthalate	26000	J
117-84-0	Di-n-Octyl Phthalate	69000	U
205-99-2	Benzo(b)Fluoranthene	69000	U
207-08-9	Benzo(k)Fluoranthene	69000	U
50-32-8	Benzo(a)Pyrene	69000	U
193-39-5	Indeno(1,2,3-cd)Pyrene	69000	U
53-70-3	Dibenz(a,h)Anthracene	69000	U
191-24-2	Benzo(g,h,i)Perylene	69000	U

(1) - Cannot be separated from Diphenylamine

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CGB61

Lab Name: CEIMIC CORP Contract: 68D90024

Lab Code: CEIMIC Case No.: 1s472 SAS No.: _____ SDG No.: CGB60

Matrix: (soil/water) SOIL Lab Sample ID: 910241-02

Sample wt/vol: 32.2 (g/mL) G Lab File ID: _____

Level: (low/med) LOW Date Received: 05/23/91

% Moisture: not dec. 4 dec. ____ Date Extracted: 05/24/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 06/23/91

GPC Cleanup: (Y/N) N pH: 8.6 Dilution Factor: 5.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	41	U
319-85-7	beta-BHC	41	U
319-86-8	delta-BHC	41	U
58-89-9	gamma-BHC (Lindane)	41	U
76-44-8	Heptachlor	41	U
309-00-2	Aldrin	41	U
1024-57-3	Heptachlor epoxide	41	U
959-98-8	Endosulfan I	41	U
60-57-1	Dieldrin	82	U
72-55-9	4,4'-DDE	82	U
72-20-8	Endrin	82	U
33213-65-9	Endosulfan II	82	U
72-54-8	4,4'-DDD	82	U
1031-07-8	Endosulfan sulfate	82	U
50-29-3	4,4'-DDT	82	U
72-43-5	Methoxychlor	410	U
53494-70-5	Endrin ketone	82	U
5103-71-9	alpha-Chlordane	410	U
5103-74-2	gamma-Chlordane	410	U
8001-35-2	Toxaphene	820	U
12674-11-2	Aroclor-1016	410	U
11104-28-2	Aroclor-1221	410	U
11141-16-5	Aroclor-1232	410	U
53469-21-9	Aroclor-1242	410	U
12672-29-6	Aroclor-1248	2400	
11097-69-1	Aroclor-1254	4200	
11096-82-5	Aroclor-1260	820	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: CQB62

Lab Name: CEIMIC CORP Contract: 68D90024

Lab Code: CEIMIC Case No.: 16472 SAS No.: SDG No.: CQB

Matrix: (soil/water) SOIL Lab Sample ID: 910261-03

Sample wt/vol: 5.0 (g/mL) G Lab File ID: E4030

Level: (low/med) LOW Date Received: 05/23/91

% Moisture: not dec. 3 Date Analyzed: 06/01/91

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	22	X
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	19	
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Total Xylenes	5	U

C 114

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

OGB62

Lab Name: CEIMIC CORP Contract: 68D90024

Lab Code: CEIMIC Case No.: 16472 SAS No.: _____ SDG No.: OGB60

Matrix: (soil/water) SOIL Lab Sample ID: 910261-02

Sample wt/vol: 30.2 (g/mL) G Lab File ID: A7962

Level: (low/med) LOW Date Received: 05/23/91

% Moisture: not dec. 5 dec. ____ Date Extracted: 05/24/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 06/24/91

GPC Cleanup: (Y/N) N pH: 7.2 Dilution Factor: 2.0

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	690	U
111-44-4	bis(2-Chloroethyl)Ether	690	U
95-57-8	2-Chlorophenol	690	U
541-73-1	1,3-Dichlorobenzene	690	U
106-46-7	1,4-Dichlorobenzene	690	U
100-51-6	Benzyl Alcohol	690	U
95-50-1	1,2-Dichlorobenzene	690	U
95-48-7	2-Methylphenol	690	U
108-60-1	bis(2-Chloroisopropyl)Ether	690	U
106-44-5	4-Methylphenol	690	U
621-64-7	N-Nitroso-Di-n-Propylamine	690	U
67-72-1	Hexachloroethane	690	U
98-95-3	Nitrobenzene	690	U
78-59-1	Isophorone	690	U
88-75-5	2-Nitrophenol	690	U
105-67-9	2,4-Dimethylphenol	690	U
65-85-0	Benzoic Acid	3400	U
111-91-1	bis(2-Chloroethoxy)Methane	690	U
120-83-2	2,4-Dichlorophenol	690	U
120-82-1	1,2,4-Trichlorobenzene	690	U
91-20-3	Naphthalene	690	U
106-47-8	4-Chloroaniline	690	U
87-68-3	Hexachlorobutadiene	690	U
59-50-7	4-Chloro-3-Methylphenol	690	U
91-57-6	2-Methylnaphthalene	690	U
77-47-4	Hexachlorocyclopentadiene	690	U
88-06-2	2,4,6-Trichlorophenol	690	U
95-95-4	2,4,5-Trichlorophenol	3400	U
91-58-7	2-Chloronaphthalene	690	U
88-74-4	2-Nitroaniline	3400	U
131-11-3	Dimethyl Phthalate	690	U
208-96-8	Acenaphthylene	690	U
606-20-2	2,6-Dinitrotoluene	690	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CGB62

Lab Name: CSIMIC CORP Contract: 68D90024

Lab Code: CSIMIC Case No.: 16472 SAS No.: _____ SDG No.: CGB60

Matrix: (soil/water) SOIL Lab Sample ID: 910261-03

Sample wt/vol: 30.3 (g/mL) G Lab File ID: A7962

Level: (low/med) LOW Date Received: 05/23/91

% Moisture: not dec. 5 dec. ____ Date Extracted: 05/24/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 06/24/91

GPC Cleanup: (Y/N) N pH: 7.3 Dilution Factor: 2.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	3400	U
83-32-9	Acenaphthene	690	U
51-28-5	2,4-Dinitrophenol	3400	U
100-02-7	4-Nitrophenol	3400	U
132-64-9	Dibenzofuran	690	U
121-14-2	2,4-Dinitrotoluene	690	U
84-66-2	Diethylphthalate	690	U
7005-72-3	4-Chlorophenyl-phenylether	690	U
86-73-7	Fluorene	690	U
100-01-6	4-Nitroaniline	3400	U
534-52-1	4,6-Dinitro-2-Methylphenol	3400	U
86-30-6	N-Nitrosodiphenylamine (1)	690	U
101-55-3	4-Bromophenyl-phenylether	690	U
118-74-1	Hexachlorobenzene	690	U
87-86-5	Pentachlorophenol	3400	U
85-01-8	Phenanthrene	540	J
120-12-7	Anthracene	690	U
84-74-2	Di-n-Butylphthalate	690	U
206-44-0	Fluoranthene	890	
129-00-0	Pyrene	800	
85-68-7	Butylbenzylphthalate	690	U
91-94-1	3,3'-Dichlorobenzidine	1400	U
56-55-3	Benzo(a)Anthracene	320	J
218-01-9	Chrysene	360	J
117-81-7	bis(2-Ethylhexyl)Phthalate	120	J
117-84-0	Di-n-Octyl Phthalate	690	U
205-99-2	Benzo(b)Fluoranthene	640	J
207-08-9	Benzo(k)Fluoranthene	190	J
50-32-8	Benzo(a)Pyrene	370	J
193-39-5	Indeno(1,2,3-cd)Pyrene	180	J
53-70-3	Dibenz(a,h)Anthracene	690	U
191-24-2	Benzo(g,h,i)Perylene	150	J

(1) - Cannot be separated from Diphenylamine

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

C0862

Lab Name: CHEMIC CORP Contract: 68D90024

Lab Code: CHEMIC Case No.: 1697 SAS No.: _____ SDG No.: C0860

Matrix: (soil/water) SOIL Lab Sample ID: 910261-02

Sample wt/vol: 30.2 (g/mL) G Lab File ID: _____

Level: (low/med) LOW Date Received: 05/23/91

% Moisture: not dec. 5 dec. ____ Date Extracted: 05/24/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 06/23/91

GPC Cleanup: (Y/N) N pH: 7.3 Dilution Factor: 5.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	42	U
319-85-7	beta-BHC	42	U
319-86-8	delta-BHC	42	U
58-89-9	gamma-BHC (Lindane)	42	U
76-44-8	Heptachlor	42	U
309-00-2	Aldrin	42	U
1024-57-3	Heptachlor epoxide	42	U
959-98-8	Endosulfan I	42	U
60-57-1	Dieldrin	310	
72-55-9	4,4'-DDE	83	U
72-20-8	Endrin	83	U
33213-65-9	Endosulfan II	83	U
72-54-8	4,4'-DDD	83	U
1031-07-8	Endosulfan sulfate	83	U
50-29-3	4,4'-DDT	83	U
72-43-5	Methoxychlor	420	U
53494-70-5	Endrin ketone	83	U
5103-71-9	alpha-Chlordane	420	U
5103-74-2	gamma-Chlordane	420	U
8001-35-2	Toxaphene	830	U
12674-11-2	Aroclor-1016	420	U
11104-28-2	Aroclor-1221	420	U
11141-16-5	Aroclor-1232	420	U
53469-21-9	Aroclor-1242	420	U
12672-29-6	Aroclor-1248	420	U
11097-69-1	Aroclor-1254	830	U
11096-82-5	Aroclor-1260	830	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

CGB63

Lab Name: CEIMIC CORP Contract: 68D90024

Lab Code: CEIMIC Case No.: 16472 SAS No.: _____ SDG No.: CGB6

Matrix: (soil/water) SOIL Lab Sample ID: 910261-04

Sample wt/vol: 5.0 (g/mL) G Lab File ID: E3994

Level: (low/med) LOW Date Received: 05/23/91

% Moisture: not dec. 52 Date Analyzed: 05/29/91

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

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

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	21	U
74-83-9	Bromomethane	21	U
75-01-4	Vinyl Chloride	21	U
75-00-3	Chloroethane	21	U
75-09-2	Methylene Chloride	11	B
67-64-1	Acetone	21	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	21	U
71-55-6	1,1,1-Trichloroethane	8	J
56-23-5	Carbon Tetrachloride	10	U
108-05-4	Vinyl Acetate	21	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	Trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	21	U
591-78-6	2-Hexanone	21	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Total Xylenes	10	U

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO: OGB63

Lab Name: CEIMIC CORP. Contract: 68D90024

Lab Code: CEIMIC Case No.: 18472 SAS No.: _____ SDG No.: OGB60

Matrix: (soil/water) SOIL Lab Sample ID: 910261-04

Sample wt/vol: 30.2 (g/mL) G Lab File ID: DS837

Level: (low/med) LOW Date Received: 05/23/91

% Moisture: not dec. 51 dec. ____ Date Extracted: 05/24/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 06/10/91

GPC Cleanup: (Y/N) N pH: 7.6 Dilution Factor: 8.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	5400	U
111-44-4	bis(2-Chloroethyl)Ether	5400	U
95-57-8	2-Chlorophenol	5400	U
541-73-1	1,3-Dichlorobenzene	5400	U
106-46-7	1,4-Dichlorobenzene	5400	U
100-51-6	Benzyl Alcohol	5400	U
95-50-1	1,2-Dichlorobenzene	5400	U
95-48-7	2-Methylphenol	5400	U
108-60-1	bis(2-Chloroisopropyl)Ether	5400	U
106-44-5	4-Methylphenol	5400	U
621-64-7	N-Nitroso-Di-n-Propylamine	5400	U
67-72-1	Hexachloroethane	5400	U
98-95-3	Nitrobenzene	5400	U
78-59-1	Isophorone	5400	U
88-75-5	2-Nitrophenol	5400	U
105-67-9	2,4-Dimethylphenol	5400	U
65-85-0	Benzoic Acid	26000	U
111-91-1	bis(2-Chloroethoxy)Methane	5400	U
120-83-2	2,4-Dichlorophenol	5400	U
120-82-1	1,2,4-Trichlorobenzene	5400	U
91-20-3	Naphthalene	5400	U
106-47-8	4-Chloroaniline	5400	U
87-68-3	Hexachlorobutadiene	5400	U
59-50-7	4-Chloro-3-Methylphenol	5400	U
91-57-6	2-Methylnaphthalene	710	J
77-47-4	Hexachlorocyclopentadiene	5400	U
88-06-2	2,4,6-Trichlorophenol	5400	U
95-95-4	2,4,5-Trichlorophenol	26000	U
91-58-7	2-Chloronaphthalene	5400	U
88-74-4	2-Nitroaniline	26000	U
131-11-3	Dimethyl Phthalate	5400	U
208-96-8	Acenaphthylene	5400	U
606-20-2	2,6-Dinitrotoluene	5400	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE N

OGB63

Lab Name: CHEMIC CORP Contract: 68D90024

Lab Code: CHEMIC Case No.: 16472 SAS No.: _____ SDG No.: OGB

Matrix: (soil/water) SOIL Lab Sample ID: 910261-04

Sample wt/vol: 30.3 (g/mL) G Lab File ID: D5837

Level: (low/med) LOW Date Received: 05/23/91

% Moisture: not dec. 51 dec. ____ Date Extracted: 05/24/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 06/10/91

GPC Cleanup: (Y/N) N pH: 7.6 Dilution Factor: 8.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	26000	U
83-32-9	Acenaphtnene	5400	U
51-28-5	2,4-Dinitrophenol	26000	U
100-02-7	4-Nitrophenol	26000	U
132-64-9	Dibenzofuran	5400	U
121-14-2	2,4-Dinitrotoluene	5400	U
84-66-2	Diethylphthalate	5400	U
7005-72-3	4-Chlorophenyl-phenylether	5400	U
86-73-7	Fluorene	5400	U
100-01-6	4-Nitroaniline	26000	U
534-52-1	4,6-Dinitro-2-Methylphenol	26000	U
86-30-6	N-Nitrosodiphenylamine (1)	5400	U
101-55-3	4-Bromophenyl-phenylether	5400	U
118-74-1	Hexachlorobenzene	5400	U
87-86-5	Pentachlorophenol	26000	U
85-01-8	Phenanthrene	1400	J
120-12-7	Anthracene	5400	U
84-74-2	Di-n-Butylphthalate	5400	U
206-44-0	Fluoranthene	2500	J
129-00-0	Pyrene	2400	J
85-68-7	Butylbenzylphthalate	740	J
91-94-1	3,3'-Dichlorobenzidine	11000	U
56-55-3	Benzo(a)Anthracene	1300	J
218-01-9	Chrysene	1700	J
117-81-7	bis(2-Ethylhexyl)Phthalate	650	J
117-84-0	Di-n-Octyl Phthalate	5400	U
205-99-2	Benzo(b)Fluoranthene	2200	J
207-08-9	Benzo(k)Fluoranthene	1700	J
50-32-8	Benzo(a)Pyrene	1700	J
193-39-5	Indeno(1,2,3-cd)Pyrene	2000	J
53-70-3	Dibenz(a,h)Anthracene	5400	U
191-24-2	Benzo(g,h,i)Perylene	1800	J

(1) - Cannot be separated from Diphenylamine

3.D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CGB63

Lab Name: OEINIC CORP Contract: 68D90024

Lab Code: OEINIC Case No.: 16472 SAS No.: _____ SDG No.: CGB60

Matrix: (soil/water) SOIL Lab Sample ID: 910261-04

Sample wt/vol: 20.0 (g/mL) G Lab File ID: _____

Level: (low/med) LOW Date Received: 05/23/91

% Moisture: not dec. 51 dec. _____ Date Extracted: 05/24/91

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 06/23/91

GPC Cleanup: (Y/N) N pH: 7.6 Dilution Factor: 5.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) UG/KG	Q
319-84-6	alpha-BHC	82	U
319-85-7	beta-BHC	82	U
319-86-8	delta-BHC	82	U
58-89-9	gamma-BHC (Lindane)	82	U
76-44-8	Heptachlor	82	U
309-00-2	Aldrin	82	U
1024-57-3	Heptachlor epoxide	82	U
959-98-8	Endosulfan I	82	U
60-57-1	Dieldrin	160	U
72-55-9	4,4'-DDE	160	U
72-20-8	Endrin	160	U
33213-65-9	Endosulfan II	160	U
72-54-8	4,4'-DDD	160	U
1031-07-8	Endosulfan sulfate	160	U
50-29-3	4,4'-DDT	160	U
72-43-5	Methoxychlor	820	U
53494-70-5	Endrin ketone	160	U
5103-71-9	alpha-Chlordane	820	U
5103-74-2	gamma-Chlordane	820	U
8001-35-2	Toxaphene	1600	U
12674-11-2	Aroclor-1016	820	U
11104-28-2	Aroclor-1221	820	U
11141-16-5	Aroclor-1232	820	U
53469-21-9	Aroclor-1242	820	U
12672-29-6	Aroclor-1248	2800	
11097-69-1	Aroclor-1254	6000	
11096-82-5	Aroclor-1260	1600	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

CQB64

Lab Name: CEIMIC CORP Contract: 68D90024

Lab Code: CEIMIC Case No.: 18472 SAS No.: _____ SDG No.: CQB64

Matrix: (soil/water) WATER Lab Sample ID: 910261-05

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: F2959

Level: (low/med) LOW Date Received: 05/23/91

% Moisture: not dec. ____ Date Analyzed: 05/25/91

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	21	
67-64-1	Acetone	89	
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Total Xylenes	5	U

1.3

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE N: CQ864

Lab Name: CEIMIC CORP Contract: 68D90024

Lab Code: CEIMIC Case No.: 18472 SAS No.: SDG No.: CQ860

Matrix: (soil/water) WATER Lab Sample ID: 910261-05

Sample wt/vol: 1000 (g/mL) ML Lab File ID: D5880

Level: (low/med) LOW Date Received: 05/23/91

% Moisture: not dec. dec. Date Extracted: 05/24/91

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/30/91

GPC Cleanup: (Y/N) N pH: 8.0 Dilution Factor: 1.0

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

CAS NO.	COMPOUND		Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl Alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	bis(2-Chloroisopropyl)Ether	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
65-85-0	Benzoic Acid	50	U
111-91-1	bis(2-Chloroethoxy)Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	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	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethyl Phthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE N

CGB64

Lab Name: CEIMIC CORP Contract: 68D80024

Lab Code: CEIMIC Case No.: 18472 SAS No.: _____ SDG No.: CGB

Matrix: (soil/water) WATER Lab Sample ID: 910261-05

Sample wt/vol: 1000 (g/mL) ML Lab File ID: DS690

Level: (low/med) LOW Date Received: 05/23/91

% Moisture: not dec. ____ dec. ____ Date Extracted: 05/24/91

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/30/91

GPC Cleanup: (Y/N) N pH: 9.0 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-Methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	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	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	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-Octyl Phthalate	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(a,h)Anthracene	10	U
191-24-2	Benzo(g,h,i)Perylene	10	U

(1) - Cannot be separated from Diphenylamine

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CQB64

Lab Name: CENTEC CORP Contract: 68D90024

Lab Code: CENTEC Case No.: 1a472 SAS No.: _____ SDG No.: CQB60

Matrix: (soil/water) WATER Lab Sample ID: 9102a1-05

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

Level: (low/med) LOW Date Received: 05/23/91

% Moisture: not dec. _____ dec. _____ Date Extracted: 05/24/91

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 06/26/91

GPC Cleanup: (Y/N) N pH: 8.0 Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) 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
5103-71-9	alpha-Chlordane	0.50	U
5103-74-2	gamma-Chlordane	0.50	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.50	U
11104-28-2	Aroclor-1221	0.50	U
11141-16-5	Aroclor-1232	0.50	U
53469-21-9	Aroclor-1242	0.50	U
12672-29-6	Aroclor-1248	0.50	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO: CQB65

Lab Name: CEIMIC CORP Contract: 68D90024

Lab Code: CEIMIC Case No.: 16472 SAS No.: _____ SDG No.: CQBRL

Matrix: (soil/water) WATER Lab Sample ID: 910261-06

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: B9743

Level: (low/med) LOW Date Received: 05/23/91

% Moisture: not dec. ____ Date Analyzed: 05/30/91

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	33	B
67-64-1	Acetone	16	B
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Total Xylenes	5	U

WESTON

Appendix D

Reviewed and Corrected
Tentatively Identified Compounds

1F

EPA SAMPLE NO

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CGB60

Lab Name: CEIMIC CORP Contract: 68D90024

Lab Code: CEIMIC Case No.: 19472 SAS No.: _____ SDG No.: CGB6

Matrix: (soil/water) SOIL Lab Sample ID: 910261-01

Sample wt/vol: 30.2 (g/mL) G Lab File ID: A7891

Level: (low/med) LOW Date Received: 05/23/91

% Moisture: not dec. 4 dec. ____ Date Extracted: 05/24/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 06/13/91

GPC Cleanup: (Y/N) N pH: 6.9 Dilution Factor: 50

Number TICs found: 4 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 123422	4-hydroxy-4-methyl-2-pentanon	5.79	12000	ABJ
2. 000000	Unknown	25.92	5300	BJ
3. 000000	Phenolate unknown	28.15	24000	BJ
4. 000000	Phenolate unknown	31.12	12000	J

8/17/91 CF

3

1F

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CGB61

Lab Name: CEIMIC CORP Contract: 68D90024

Lab Code: CEIMIC Case No.: 16472 SAS No.: _____ SDG No.: CGB60

Matrix: (soil/water) SOIL Lab Sample ID: 910361-02

Sample wt/vol: 30.5 (g/mL) G Lab File ID: A7890

Level: (low/med) LOW Date Received: 05/23/91

% Moisture: not dec. 4 dec. ____ Date Extracted: 05/24/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 06/13/91

GPC Cleanup: (Y/N) N pH: 6.6 Dilution Factor: 200

Number TICs found: 19 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	000000	Aliphatic hydrocarbon	22.14	48000	BJ
2.	000000	Aliphatic hydrocarbon	22.52	27000	BJ
3.	000000	Aliphatic hydrocarbon	23.62	61000	BJ
4.	000000	Aliphatic hydrocarbon	24.72	41000	BJ
5.	000000	Aliphatic hydrocarbon	24.87	48000	BJ
6.	000000	Aliphatic hydrocarbon	25.71	27000	BJ
7.	000000	Aliphatic hydrocarbon	26.07	27000	BJ
8.	000000	Aliphatic hydrocarbon	26.17	61000	BJ
9.	000000	Aliphatic hydrocarbon	26.67	41000	BJ
10.	000000	Aliphatic hydrocarbon	27.06	140000	BJ
11.	000000	Aliphatic hydrocarbon	27.41	89000	BJ
12.	000000	Aliphatic hydrocarbon	27.74	41000	BJ
13.	000000	Aliphatic hydrocarbon	28.17	89000	BJ
14.	000000	Aliphatic hydrocarbon	28.29	110000	BJ
15.	000000	Cyclohexane derivative	28.39	61000	BJ
16.	000000	Aliphatic hydrocarbon	28.94	68000	BJ
17.	000000	Aliphatic hydrocarbon	30.12	130000	BJ
18.	000000	Cyclohexane derivative	30.72	55000	BJ
19.	000000	Aliphatic hydrocarbon	31.19	140000	BJ

8/26/91

1E

EPA SAMPLE NO

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CGB62

Lab Name: CEIMIC CORP Contract: 68D90024

Lab Code: CEIMIC Case No.: 18472 SAS No.: _____ SDG No.: CGB62

Matrix: (soil/water) SOIL Lab Sample ID: 910261-03

Sample wt/vol: 5.0 (g/mL) G Lab File ID: E4030

Level: (low/med) LOW Date Received: 05/23/91

% Moisture: not dec. 3 Date Analyzed: 06/01/91

Column (pack/cap) PACK Dilution Factor: 1.0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

0: 1

1F

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CG862

Lab Name: CEIMIC CORP Contract: 68D90024

Lab Code: CEIMIC Case No.: 16472 SAS No.: _____ SDG No.: CG860

Matrix: (soil/water) SOIL Lab Sample ID: 910261-03

Sample wt/vol: 30.3 (g/mL) G Lab File ID: A7962

Level: (low/med) LOW Date Received: 05/23/91

% Moisture: not dec. 5 dec. ____ Date Extracted: 05/24/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 06/24/91

GPC Cleanup: (Y/N) N pH: 7.3 Dilution Factor: 2.0

Number TICs found: 12

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	000000	Unknown	5.22	690	BJ
2.	123422	4-Hydroxy-4-methyl-2-pentano	5.82	27000	ABJ
3.	000000	Unknown	7.42	1700	BJ
4.	000000	Aliphatic hydrocarbon	24.84	280	BJ
5.	000000	Aliphatic hydrocarbon	27.37	420	BJ
6.	000000	Aliphatic hydrocarbon	29.69	280	BJ
7.	000000	Unknown	33.16	350	BJ
8.	000000	Aliphatic hydrocarbon	33.77	280	BJ
9.	000000	Unknown	35.12	630	BJ
10.	000000	Unknown	37.56	490	BJ
11.	000000	Aliphatic hydrocarbon	38.41	630	BJ
12.	000000	Unknown	41.42	420	BJ

8/26/91

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO: CGB63

Lab Name: CEIMIC CORP Contract: 68D90024

Lab Code: CEIMIC Case No.: 16472 SAS No.: _____ SDG No.: CGB60

Matrix: (soil/water) SOIL Lab Sample ID: 910261-04

Sample wt/vol: 5.0 (g/mL) G Lab File ID: E3994

Level: (low/med) LOW Date Received: 05/23/91

% Moisture: not dec. 52 Date Analyzed: 05/29/91

Column (pack/cap) PACK Dilution Factor: 1.0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE N: CGB63

Lab Name: CEIMIC CORP Contract: 68D90024

Lab Code: CEIMIC Case No.: 16472 SAS No.: _____ SDG No.: CGB60

Matrix: (soil/water) SOIL Lab Sample ID: 910261-04

Sample wt/vol: 30.2 (g/mL) G Lab File ID: D5837

Level: (low/med) LOW Date Received: 05/23/91

% Moisture: not dec. 51 dec. ____ Date Extracted: 05/24/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 06/10/91

GPC Cleanup: (Y/N) N pH: 7.6 Dilution Factor: 8.0

Number TICs found: 4

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	123-42-2	4-hydroxy-4-methyl-2-pentanone	5.78	28000	BJ
2.	000000	Ketone	7.63	5200	BJ
3.	000000	Unknown	28.41	2200	BJ
4.	000000	Unknown	33.62	7000	BJ

8/26/91 CEC

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CGB64

Lab Name: CEIMIC CORP Contract: 68D90024

Lab Code: CEIMIC Case No.: 16472 SAS No.: _____ SDG No.: CGB60

Matrix: (soil/water) WATER Lab Sample ID: 910261-05

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: F2959

Level: (low/med) LOW Date Received: 05/23/91

% Moisture: not dec. ____ Date Analyzed: 05/25/91

Column (pack/cap) PACK Dilution Factor: 1.0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1F

EPA SAMPLE N

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

C6864

Lab Name: CEIMIC CORP Contract: 62D90024

Lab Code: CEIMIC Case No.: 16472 SAS No.: _____ SDG No.: C6860

Matrix: (soil/water) WATER Lab Sample ID: 910261-05

Sample wt/vol: 1000 (g/mL) ML Lab File ID: D5890

Level: (low/med) LOW Date Received: 05/23/91

% Moisture: not dec. ____ dec. ____ Date Extracted: 05/24/91

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/30/91

GPC Cleanup: (Y/N) N pH: 9.0 Dilution Factor: 1.0

Number TICs found: 2

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	000000	Unknown	28.74	7.0	J
2.	000000	Unknown	30.97	5.0	J

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO: CGB65

Lab Name: CEIMIC CORP Contract: 68D90024

Lab Code: CEIMIC Case No.: 16472 SAS No.: _____ SDG No.: CGB6[illegible]

Matrix: (soil/water) WATER Lab Sample ID: 910261-06

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: B9743

Level: (low/med) LOW Date Received: 05/23/91

% Moisture: not dec. ____ Date Analyzed: 05/30/91

Column (pack/cap) CAP Dilution Factor: 1.0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

WESTON

Appendix E

Organic Regional Data Assessment Summary

WESTON

TPO: [ ] ACTION [X] FYI

Region III

ORGANIC REGIONAL DATA ASSESSMENT SUMMARY

CASE NO: 16472
SDG NO: CGB60
SOW: 2/88
NO. OF SAMPLES: 2

LABORATORY: CEIMIC
DATA USER: Deb Szaro/Moira Lataille
REVIEW COMPLETION DATE: 8/28/91
MATRIX: Aqueous

REVIEWER: ESAT

	VOA	BNA	PEST	OTHER
1. HOLDING TIMES	X	O	O	
2. GC-MS TUNE/GC PERFORMANCE	O	O	O	
3. INITIAL CALIBRATIONS	X	X	O	
4. CONTINUING CALIBRATION	X	X	O	
5. FIELD BLANKS (F=NOT APPLICABLE)	X	O	O	
6. LABORATORY BLANKS	O	O	O	
7. SURROGATES	O	O	O	
8. MATRIX SPIKE/DUPLICATES	O	O	O	
9. REGIONAL QC (F=NOT APPLICABLE)	F	F	F	
10. INTERNAL STANDARDS	O	O		
11. COMPOUND IDENTIFICATION	O	O	O	
12. COMPOUND QUANTITATION	O	O	O	
13. SYSTEM PERFORMANCE	O	O	O	
14. OVERALL ASSESSMENT	M	X	O	

O = No problems or minor problems that do not affect data usability
X = No more than about 5% of the data points are qualified as either estimated or unusable.
M = More than about 5% of the data points are qualified as estimated.
Z = More than about 5% of the data points are qualified as unusable.
A = TPO action requested; use in conjunction with one of the above codes.

TPO ACTION ITEMS:

AREAS OF CONCERN: (Documentation Attached, See Following Pages)

TPO: [ ] ACTION [X] FYI Region III

ORGANIC REGIONAL DATA ASSESSMENT SUMMARY

CASE NO: 16472
SDG NO: CGB60
SOW: 2/88
NO. OF SAMPLES: 4

LABORATORY: CEIMIC
DATA USER: Deb Szaro/M.Lataille
REVIEW COMPLETION DATE: 8/28/91
MATRIX: Soil

REVIEWER: ESAT

	VOA	BNA	PEST	OTHER
1. HOLDING TIMES	X	O	O	
2. GC-MS TUNE/GC PERFORMANCE	O	O	O	
3. INITIAL CALIBRATIONS	O	X	O	
4. CONTINUING CALIBRATION	M	M	X	
5. FIELD BLANKS (F=NOT APPLICABLE)	X	O	O	
6. LABORATORY BLANKS	O	O	O	
7. SURROGATES	O	O	O	
8. MATRIX SPIKE/DUPLICATES	O	O	O	
9. REGIONAL QC (F=NOT APPLICABLE)	F	F	F	
10. INTERNAL STANDARDS	M	O		
11. COMPOUND IDENTIFICATION	O	O	O	
12. COMPOUND QUANTITATION	O	O	O	
13. SYSTEM PERFORMANCE	O	O	O	
14. OVERALL ASSESSMENT	M	M	X	

O = No problems or minor problems that do not affect data usability
X = No more than about 5% of the data points are qualified as either estimated or unusable.
M = More than about 5% of the data points are qualified as estimated.
Z = More than about 5% of the data points are qualified as unusable.
A = TPO action requested; use in conjunction with one of the above codes.

TPO ACTION ITEMS:

AREAS OF CONCERN: (Documentation Attached, See Following Pages)

ORGANIC REGIONAL DATA ASSESSMENT SUMMARY NOTES
Case 16472 SDG CGB60 Aqueous Samples

Item 1A The volatile analysis of aqueous sample CGB65 was performed nine (9) days from the date of sample collection. The technical holding time of seven (7) days for volatile aromatic compounds in unpreserved water samples has been exceeded by two (2) days.

Item 2C The INDB standard run on 6/25/91 at 1459 on the quantitation column had the retention time for alpha-BHC outside the QC window. The INDA standard run on 6/26/91 at 0131 on the confirmation column and the INDB standards run on 6/25/91 at 2348 and 6/26/91 at 0209 on the confirmation column had the retention time for all compounds outside the QC windows. Examination of the raw data indicated no target compounds were present. (See Form IX's in Appendix F.)

Item 3A Acetone had a %RSD greater than 30% in the volatile initial calibration. (See Table 1 in Appendix F.)

Item 3B Benzo(k)fluoranthene had a %RSD greater than 30% in the semivolatiles initial calibration. (See Table I, Appendix F.)

Item 4A Several compounds had %Ds greater than 25% in the volatile continuing calibrations. (See Table I in Appendix F.)

Item 4B Several compounds had %Ds greater than 25% in the semivolatiles continuing calibrations. (See Table I, Appendix F.)

Item 4C The INDA mix run on 6/25/91 at 1318 and the INDB mix run on 6/25/91 at 1459 on the quantitation column exceeded 15% D for the calibration factors. The INDA MIX run on 6/26/91 at 0131 and the INDB mix run on 6/25/91 at 2348 and 6/26/91 at 0209 on the confirmation column exceeded 20% D for the calibration factors.

Item 5A The maximum concentration of all compounds found in the analysis of the trip and rinsate blanks are listed below:

Methylene chloride*	33 ug/L
Acetone*	89 ug/L

* Common Laboratory Contaminant

Item 6A The maximum concentration of all compounds found in the analysis of the laboratory method blank are listed below:

methylene chloride*	22 ug/Kg
acetone*	6 ug/L

* Common Laboratory Contaminant

ORGANIC REGIONAL DATA ASSESSMENT SUMMARY NOTES
Case 16472 SDG CGB60 Soil Samples

Item 1A All volatiles analysis of soil samples CGB62 and CGB63 were performed eight to nine (8 to 9) days from the date of sample collection. Although no technical holding time has been established for soil samples, the technical holding time of seven (7) days for volatile aromatic compounds in unpreserved water samples has been exceeded by one to two (1 to 2) days.

Item 2B DFTPP injection time reported on Form V for the GC/MS tuning of 6/19/91 was incorrect. Injection time was corrected by the data reviewer using raw data information. Copies of the corrected Form V and associated data are included in Appendix F.

Item 2C The INDB standard run on 6/25/91 at 1459 on the quantitation column had the retention time for alpha-BHC outside the QC window. The INDA standard run on 6/26/91 at 0131 on the confirmation column and the INDB standards run on 6/25/91 at 2348 and 6/26/91 at 0209 on the confirmation column had the retention time for all compounds outside the QC windows. Examination of the raw data indicated no target compounds were present. (See Form IX in Appendix F.)

Item 3B Benzo(k)fluoranthene had a %RSD greater than 30% in the semivolatiles initial calibration. (See Table I, Appendix F.)

Item 4A Several compounds had %Ds greater than 25% in the volatile continuing calibration. (See Table I, Appendix F.)

Item 4B Several compounds had %Ds greater than 25% in the semivolatiles continuing calibrations. (See Table I, Appendix F.)

Item 4C The INDA MIX run on 6/25/91 at 1318 and the INDB MIX run on 6/25/91 at 1459 on the quantitation column exceeded 15%D for the calibration factors. (See Form IX, Appendix F.)

Item 5A The maximum concentration of all compounds found in the analysis of the trip and rinsate blanks are listed below:

Compound	Concentration
Methylene chloride *	33 ug/L
Acetone *	89 ug/L

* = Common laboratory contaminant

Item 6A The maximum concentration of all compounds found in the analysis of the laboratory method blank are listed below:

Compound	Concentration
Methylene chloride *	22 ug/Kg
Acetone *	6 ug/L

* = Common laboratory contaminant

Item 7C Recovery of the pesticide/PCB surrogate was greater than the QC limits for samples: CGB61, CGB62, CGB63, CGB61MS, and CGB61MSD. Examination of the raw data indicated an interference that affected surrogate recoveries, however, earlier eluting material separated correctly. No data were qualified. Zero(0) percent surrogate recovery was obtained in samples CGB61D1, CGB61MSDL and CGB61MSDDL because of dilutions. (See Form II, Appendix F.)

Item 8B Semivolatile MS/MSD analysis of sample CGB63 had one (1) out of twenty-two (22) spike recoveries outside the QC limit. (See Form III, Appendix F.)

Non-spiked compounds, excluding blank contaminants, were determined in the MS/MSD analyses of samples CGB63 and CGB61. The results and precession estimates are listed in the following table:

Compound	Concentration (ug/Kg) CGB63	63MS	63MSD	%RSD
Naphthalene	ND	620J	670J	+
2-Methylnapthalene	710J	960J	1000J	18
Phenanthrene	1400J	1700J	1800J	13
Fluoranthene	2500J	3300J	3100J	14
Butylbenzylphthalate	740J	850J	670J	12

Compound	Concentration (ug/Kg) CGB63	63MS	63MSD	%RSD
Benzo(a)anthracene	1300J	1700J	1800J	16
Chrysene	1700J	2200J	2100J	13
bis (2-Ethylhexyl)phthalate	650J	1200J	870J	30
Benzo(b)fluoranthene	2200J	2600J	3600J	26
Benzo(k)fluoranthene	1700J	3000J	1900J	32
Benzo(a)pyrene	1700J	2400J	2400J	19
Indeno(1,2,3-cd)pyrene	2000J	2500J	2100J	12
Benzo(g,h,i)perylene	1800J	2300J	1800J	15

Compound	Concentration (ug/Kg) CGB61	61MS	61MSD	%RSD
Aroclor 1248	2400	1400	1400	33
Aroclor 1254	4200	3200	3200	16

%RSD = Percent relative standard deviation
ND = Compound not detected in sample
+ = Value is relative percent difference

Item 8C The pesticide/PCB MS/MSD analyses of sample CGB61 had three (3) out of six (6) RPD's and four (4) out of twelve (12) spike recoveries outside of the QC limits. (See Form III, Appendix F.)

Item 10A The volatiles internal standard, chlorobenzere-d5, for sample CGB62 was below the QC limits. Positive results were qualified "J" and the quantitation limits "UJ" for compounds using this internal standard. (See Form VIII, Appendix F.)

WESTON

Appendix F

Support Documentation

TABLE I

ENVIRONMENTAL PROTECTION AGENCY REGION III
CALIBRATION OUTLIERS
VOLATILE HSL COMPOUNDS

CASE/SAS No. 16472 CONTRACTOR CEIMIC CORP

Instrument: MS 6	Init. Cal.	Cont. Cal.	Cont. Cal.	Cont. Cal.	Cont. Cal.	Cont. Cal.
Date time:	2/15/91	5:22 - WFB				
	RF RRSD *	RF %D *	RF %D *	RF %D *	RF %D *	RF %D *
Chloromethane		29.1 C				
Bromomethane		30.1 C				
Vinyl Chloride						
Chloroethane						
Methylene Chloride						
Acetone	41.6 I					
Carbon Disulfide						
1,1-Dichloroethene						
1,1-Dichloroethane						
Total 1,2-Dichloroethene						
Chloroform						
1,2-Dichloroethane						
2-Butanone						
1,1,1-Trichloroethane						
Carbon Tetrachloride						
Vinyl Acetate						
Bromodichloromethane						
1,2-Dichloropropane						
cis-1,3-Dichloropropene						
Trichloroethene						
Dibromochloromethane						
1,1,2-Trichloroethane						
Benzene						
trans-1,3-Dichloropropene						
Bromoform						
4-Methyl-2-Pentanone						
2-Hexanone						
Tetrachloroethene						
1,1,2,2-Tetrachloroethane						
Toluene						
Chlorobenzene						
Ethylbenzene						
Styrene						
Total Xylenes						
AFFECTED SAMPLES:	VBLK21	VBLK 8				
	CG8107	CG8105				

Reviewer Initials/Date: DSA 2/22/91

* See last page of this table for DEFINITION OF CODES.

TABLE I

ENVIRONMENTAL PROTECTION AGENCY REGION III
CALIBRATION OUTLIERS
VOLATILE HSL COMPOUNDS

CASE/SAS No. 16472 CONTRACTOR CEIMIC Corp

Instrument: MS 6	Init. Cal.		Cont. Cal.		Cont. Cal.		Cont. Cal.		Cont. Cal.	
DATE/TIME:	5/23/91		5/28/91-1157		6/01/91-0957		6/04/91-1104			
	RF	%RSD *	RF	%D *	RF	%D *	RF	%D *	RF	%D *
Chloromethane				34.3 C						
Bromomethane						30.9 C		47.7 C		
Vinyl Chloride										
Chloroethane										
Methylene Chloride						31.2 C		41.1 C		
Acetone						38.9 C		28.9 C		
Carbon Disulfide										
1,1-Dichloroethene										
1,1-Dichloroethane										
Total 1,2-Dichloroethene										
Chloroform										
1,2-Dichloroethane						25.1 C				
2-Butanone			28.0 C							
1,1,1-Trichloroethane										
Carbon Tetrachloride										
Vinyl Acetate										
Bromodichloromethane						22.2 C				
1,2-Dichloropropane										
Cis-1,3-Dichloropropene										
Trichloroethene										
Dibromochloromethane								33.1 C		
1,1,2-Trichloroethane										
Benzene										
Trans-1,3-Dichloropropene										
Bromoform						38.4 C		26.1 C		
4-Methyl-2-Pentanone										
2-Hexanone			28.2 C							
Tetrachloroethene										
1,1,2,2-Tetrachloroethane						25.3 C				
Toluene										
Chlorobenzene										
Ethylbenzene										
Styrene										
Total Xylenes										

AFFECTED SAMPLES: VBIK 02, CGB63, VBIK 02, CGB63MS, CGB63MSD, CGB62, VBIK 05

Reviewer Initials/Date: CJO 6/21/91

* See last page of this table for DEFINITION OF CODES.

TABLE I

ENVIRONMENTAL PROTECTION AGENCY REGION III
CALIBRATION OUTLIERS
SEMIVOLATILE HSL COMPOUNDS (Part 1 of 2)

CASE/SAS No. 16472 CONTRACT: CEIMIC Corp

Instrument:		Init. Cal.		Cont. Cal.		Cont. Cal.		Cont. Cal.		Cont. Cal.	
DATE TIME:		5/2/91		5/3/91 1447		5/3/91 2138		5/10/91 1402		5/14/91 1005	
	RF	%RSD	*	RF	%D	*	RF	%D	*	RF	%D	*
Phenol												
Bis(2-Chloroethyl)ether												
2-Chlorophenol												
1,3-Dichlorobenzene												
1,4-Dichlorobenzene												
Benzyl alcohol												
1,2-Dichlorobenzene												
2-Methylphenol												
Bis(2-Chloroisopropyl)ether												
4-Methylphenol												
N-Nitroso-di-n-propylamine												
Hexachloroethane												
Nitrobenzene												
Isophorone												
2-Nitrophenol												
2,4-Dimethylphenol												
Benzoic Acid						0.11	C	79.8	C		0.7	C
Bis(2-Chloroethoxy)methane												
2,4-Dichlorophenol												
1,2,4-Trichlorobenzene												
Naphthalene												
4-Chloroaniline												
Hexachlorobutadiene												
4-Chloro-3-methylphenol												
2-Methylnaphthalene												
Hexachlorocyclopentadiene						29.1	C					
2,4,6-Trichlorophenol												
2,4,5-Trichlorophenol												
2-Chloronaphthalene												
2-Nitroaniline												
Dimethylphthalate												
Acenaphthylene												
2,6-Dinitrotoluene												
3-Nitroaniline												
Acenaphthene												
2,4-Dinitrophenol				40.4	C	46.0	C	36.4	C			
4-Nitrophenol												
				S81K0		PGB64		PG1363		S81K02		
AFFECTED SAMPLES:								CG1363MS				
								CG1362MSD				

Reviewer Initials/Date: CRD 11/25/91

* See last page of this table for DEFINITION ( ) CODES.

TABLE I

ENVIRONMENTAL PROTECTION AGENCY REGION III
CALIBRATION OUTLIERS
SEMIVOLATILE HSL COMPOUNDS (Part 2 of 2)

CASE/SAS No. 1647 CONTRACT CLAYTON

Instrument: HP 5	Init. Cal.		Conc. Cal.		Conc. Cal.		Conc. Cal.		Conc. Cal.	
DATE/TIME:	5/21/91		5/24/91 1748		5/30/91 1238		6/10/91 - WCS 1444		6/10/91 - 1005	
	RF	%RSD *	RF	%D *	RF	%D *	RF	%D *	RF	%D *
Dibenzofuran										
2,4-Dinitrotoluene										
Diethylphthalate							28.1 C			
4-Chlorophenyl-phenylether										
Fluorene										
4-Nitroaniline									72.1 C	
4,6-Dinitro-2-methylphenol			27.2 C							
N-Nitrosodiphenylamine										
4-Bromophenyl-phenylether										
Hexachlorobenzene										
Pentachlorophenol										
Phenanthrene										
Anthracene										
Di-n-butylphthalate										
Fluoranthene										
Pyrene										
Butylbenzylphthalate										
3,3-Dichlorobenzidine										
Benzo(a)anthracene										
Chrysene										
Bis(2-Ethylhexyl)phthalate										
Di-n-octylphthalate										
Benzo(b)fluoranthene										
Benzo(k)fluoranthene	50.0 I		5.1 C		37.7 C		49.0 C		38.5 C	
Benzo(a)pyrene										
Indeno(1,2,3-cd)pyrene										
Dibenz(a,h)anthracene			30.1 C							
Benzo(g,h,i)perylene			54.3 C				31.4 C		50.5 C	
		SBIC 2		CSB 64		CSB 63 MS		SBIC 02		
AFFECTED SAMPLES:	MW 5MW05					CSB 63 MSD				
	MW2									
	DUP									

Reviewer Initials/Date: CMM 6/21/91

* See last page of this table for DEFINITION OF CODES

TABLE I

ENVIRONMENTAL PROTECTION AGENCY REGION III
CALIBRATION OUTLIERS
SEMIVOLATILE HSL COMPOUNDS (Part 1 of 2)

CASE/SAS No. 16472 CONTRACTOR Ceimic Corp

Instrument: MS 1	Calib. Cal.:	Cont. Cal.:	Cont. Cal.:	Cont. Cal.:	Cont. Cal.:
DATE/TIME:	3/17/91	3/18/91 1701	3/24/91 1331		
	RF %RSD *	RF %D *	RF %D *	RF %D *	RF %D *
Phenol					
Bis(2-Chloroethyl)ether					
2-Chlorophenol					
1,3-Dichlorobenzene					
1,4-Dichlorobenzene					
Benzyl alcohol					
1,2-Dichlorobenzene					
2-Methylphenol					
Bis(2-Chloroisopropyl)ether					
4-Methylphenol					
N-Nitroso-di-n-propylamine					
Hexachloroethane					
Nitrobenzene					
Isophorone					
2-Nitrophenol					
2,4-Dimethylphenol					
Benzoic acid					
Bis(2-Chloroethoxy)methane					
2,4-Dichlorophenol					
1,2,4-Trichlorobenzene					
Naphthalene					
4-Chloroaniline					
Hexachlorobutadiene					
4-Chloro-3-methylphenol					
2-Methylnaphthalene					
Hexachlorocyclopentadiene		36.6 C	47.1 C		
2,4,6-Trichlorophenol					
2,4,5-Trichlorophenol					
2-Chloronaphthalene					
2-Nitroaniline					
Dimethylphthalate					
Acenaphthylene					
2,6-Dinitrotoluene					
3-Nitroaniline					
Acenaphthene					
2,4-Dinitrophenol		42.9 C	44.6 C		
4-Nitrophenol					

AFFECTED SAMPLES: SDK02, CGB62, CGB60, CGB61

Reviewer Initials/Date: DFS 8/22/91

* See last page of this table for DEFINITION OF CODES.

TABLE I

ENVIRONMENTAL PROTECTION AGENCY REGION III
CALIBRATION OUTLIERS
SEMIVOLATILE HSL COMPOUNDS (Part 2 of 2)

CASE/SAS No. 16472 CONTRACTOR ECHMIC CORP

Instrument# MS 1	Init. Cal.	Conc. Cal.	Conc. Cal.	Conc. Cal.	Conc. Cal.	Conc. Cal.
DATE/TIME:	6/17/91	6/19/01-1431	6/24/91-1531			
	RF %RSD *	RF %D *	RF %D *	RF %D *	RF %D *	RF %D *
Dibenzofuran						
2,4-Dinitrotoluene						
Diethylphthalate						
4-Chlorophenyl-phenylether						
Fluorene						
4-Nitroaniline						
4,6-Dinitro-2-methylphenol						
N-Nitrosodiphenylamine						
4-Bromophenyl-phenylether		25.1 C				
Hexachlorobenzene						
Pentachlorophenol						
Phenanthrene						
Anthracene						
Di-n-butylphthalate						
Fluoranthene						
Pyrene						
Butylbenzylphthalate						
3,3-Dichlorobenzidine						
Benzo a anthracene						
Chrysene						
bis-2-Ethylhexylphthalate						
Di-n-octylphthalate						
Benzo(b)fluoranthene						
Benzo(k)fluoranthene						
Benzo(a)pyrene						
Indeno(1,2,3-cd)pyrene		33.3 C	27.6 C			
Dibenz(a,h)anthracene		28.2 C				
Benzo(g,h,i)perylene		24.5 C	32.2 C			
		SAK 02	CGB 02			
AFFECTED SAMPLES:		CGB 60				
		CGB 61				

Reviewer Initials/Date: CWD 8/23/91

* See last page of this table for DEFINITION OF CODES

DEFINITION OF CODES USED IN TABLE I

I = %RSD exceeded 30% in the initial calibration, positive results are qualified "J", and quantitation limits are qualified "UJ".

C = %D exceeded 25% in the continuing calibration. Positive results are qualified "J", and quantitation limits are qualified "UJ".

F = RF less than 0.05 in all calibrations. All quantitation limits are qualified "R".

+ = The "B" qualifier, denoting blank contamination, supersedes the qualifier issued in this table.

R = The "R" qualifier, denoting unusable results, supersedes the qualifier issued in this table.

6A

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CEIMIC CORP Contract: 68D90024

Lab Code: CEIMIC Case No.: 16472 SAS No.: _____ SDG No.: CGB60

Instrument ID: MS6 Calibration Date(s): 02/15/91 02/15/91

Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) PACK

Min $\overline{RRF}$ for SPCC(#) = 0.300 (0.250 for Bromoform) Max %RSD for CCC(*) = 30.0%

LAB FILE ID: RRF20 = F2306 RRF50 = F2305

RRF100= F2307 RRF150= F2310 RRF200= F2309

COMPOUND	RRF20	RRF50	RRF100	RRF150	RRF200	$\overline{RRF}$	% RSD
Chloromethane #	0.627	0.949	0.701	0.622	0.659	0.712	19.2#
Bromomethane	0.960	0.928	1.179	1.142	1.256	1.093	13.0
Vinyl Chloride *	0.916	0.928	0.952	0.879	1.010	0.937	5.2*
Chloroethane	0.719	0.633	0.628	0.571	0.671	0.644	8.5
Methylene Chloride	1.083	1.131	1.041	1.016	1.064	1.067	4.1
Acetone	0.241	0.626	0.257	0.293	0.312	0.368	(41.6)
Carbon Disulfide	2.336	2.370	2.470	2.377	2.584	2.428	4.3
1,1-Dichloroethene *	1.006	1.059	1.017	0.970	0.942	0.999	4.5*
1,1-Dichloroethane #	1.654	1.746	1.608	1.619	1.363	1.598	8.9#
1,2-Dichloroethene (total)	1.134	1.207	1.129	1.104	1.175	1.150	3.6
[illegible]oform *	2.691	2.644	2.686	2.506	2.668	2.639	2.9*
1,[illegible]-Dichloroethane	2.641	2.718	2.797	2.732	3.030	2.784	5.3
2-Butanone	0.068	0.125	0.089	0.093	0.102	0.099	15.5
1,1,1-Trichloroethane	0.796	0.939	0.844	0.866	0.937	0.876	7.0
Carbon Tetrachloride	0.814	0.836	0.842	0.829	0.872	0.839	2.6
Vinyl Acetate	0.578	0.638	0.608	0.664	0.689	0.635	6.9
Bromodichloromethane	0.826	0.951	0.905	0.928	0.996	0.921	6.8
1,2-Dichloropropane *	0.309	0.329	0.312	0.323	0.325	0.320	2.7*
cis-1,3-Dichloropropene	0.547	0.621	0.584	0.610	0.629	0.600	6.0
Trichloroethene	0.474	0.534	0.484	0.482	0.493	0.493	4.8
Dibromochloromethane	0.796	0.908	0.888	0.934	0.988	0.903	7.8
1,1,2-Trichloroethane	0.352	0.374	0.349	0.374	0.382	0.366	4.0
Benzene	0.687	0.815	0.716	0.752	0.797	0.753	7.1
Trans-1,3-Dichloropropene	0.845	0.963	0.872	0.914	0.915	0.902	5.0
Bromoform #	0.670	0.863	0.795	0.899	0.930	0.831	12.4#
4-Methyl-2-Pentanone	0.351	0.392	0.338	0.396	0.373	0.370	6.8
2-Hexanone	0.298	0.314	0.253	0.281	0.262	0.282	8.9
Tetrachloroethene	0.600	0.619	0.581	0.587	0.591	0.596	2.5
1,1,2,2-Tetrachloroethane #	0.552	0.626	0.558	0.667	0.669	0.614	9.3#
Toluene *	0.615	0.841	0.623	0.656	0.674	0.682	13.5*
Chlorobenzene #	0.957	1.017	0.959	0.985	0.989	0.981	2.5#
Ethylbenzene *	0.433	0.531	0.445	0.466	0.487	0.472	8.2*
Styrene	0.871	0.920	0.903	0.940	0.962	0.919	3.8
Total Xylenes	0.541	0.723	0.546	0.557	0.576	0.589	13.0
T[illegible]ene-d8	0.965	1.007	0.980	1.031	1.049	1.006	3.5
[illegible]	0.964	1.014	0.997	1.028	1.047	1.010	3.1
1,2-Dichloroethane-d4	2.206	2.101	2.307	2.181	2.440	2.247	5.8

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CEIMIC CORP Contract: 68D90024

Lab Code: CEIMIC Case No.: 16472 SAS No.: _____ SDG No.: CGB60

Instrument ID: MS6 Calibration date: 05/25/91 Time: 0954

Lab File ID: F2981 Init. Calib. Date(s): 02/15/91 02/15/91

Matrix:(soil/water) WATER Level:(low/med) LOW Column:(pack/cap) PACK

Min RRF50 for SPCC(#) = 0.300 (0.250 for Bromoform) Max %D for CCC(*) = 25.0%

COMPOUND		RRF	RRF50	%D	
Chloromethane	#	0.712	0.501	29.6	#
Bromomethane		1.093	1.427	-30.6	
Vinyl Chloride	*	0.937	0.935	0.2	*
Chloroethane		0.644	0.544	15.5	
Methylene Chloride		1.067	1.147	-7.5	
Acetone		0.362	0.386	-4.9	
Carbon Disulfide		2.429	2.312	4.8	
1,1-Dichloroethene	*	0.999	0.891	10.8	*
1,1-Dichloroethane	#	1.598	1.912	-19.6	#
1,2-Dichloroethene (total)		1.150	1.084	5.7	
Chloroform	*	2.639	3.000	-13.7	*
1,2-Dichloroethane		2.784	2.542	8.7	
2-Butanone		0.099	0.111	-12.1	
1,1,1-Trichloroethane		0.876	0.796	9.1	
Carbon Tetrachloride		0.839	0.764	8.9	
Vinyl Acetate		0.625	0.582	8.3	
Bromodichloromethane		0.921	0.835	9.3	
1,2-Dichloropropane	*	0.320	0.306	4.4	*
cis-1,3-Dichloropropene		0.600	0.554	7.7	
Trichloroethene		0.493	0.446	9.5	
Dibromochloromethane		0.903	0.993	-10.0	
1,1,2-Trichloroethane		0.366	0.412	-12.6	
Benzene		0.753	0.721	4.2	
Trans-1,3-Dichloropropene		0.902	0.850	5.8	
Bromoform	#	0.831	0.844	-1.6	#
4-Methyl-2-Pentanone		0.370	0.366	1.1	
2-Hexanone		0.282	0.272	3.2	
Tetrachloroethene		0.596	0.549	7.9	
1,1,2,2-Tetrachloroethane	#	0.614	0.722	-17.6	#
Toluene	*	0.682	0.578	15.2	*
Chlorobenzene	#	0.981	0.912	7.0	#
Ethylbenzene	*	0.472	0.389	17.6	*
Styrene		0.919	0.889	3.3	
Total Xylenes		0.589	0.515	12.4	
Toluene-d8		1.006	0.9[illegible]	6.1	
BFB		1.010	0.8[illegible]	14.5	
1,2-Dichloroethane-d4		2.247	2.130	5.2	

Samples
VBIK01
CGB64

6A

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CEIMIC CORP Contract: 68D90024

Lab Code: CEIMIC Case No.: 16472 SAS No.: _____ SDG No.: CGB60

Instrument ID: MS5 Calibration Date(s): 05/23/91 05/23/91

Matrix:(soil/water) SOIL Level:(low/med) LOW Column:(pack/cap) PACK

Min $\overline{RRF}$ for SPCC(#) = 0.300 (0.250 for Bromoform) Max %RSD for CCC(*) = 30.0%

LAB FILE ID: RRF20 = E3878 RRF50 = E3875

RRF100= E3877 RRF150= E3879 RRF200= E3880

COMPOUND	RRF20	RRF50	RRF100	RRF150	RRF200	$\overline{RRF}$	% RSD
Chloromethane #	0.619	0.657	0.498	0.497	0.471	0.548	15.2#
Bromomethane	1.157	1.046	0.907	0.906	0.802	0.964	14.4
Vinyl Chloride *	0.950	1.014	0.810	0.686	0.598	0.812	21.5*
Chloroethane	0.590	0.643	0.512	0.548	0.485	0.558	10.8
Methylene Chloride	1.682	1.428	0.982	1.061	0.929	1.216	26.8
Acetone	0.561	0.575	0.410	0.508	0.481	0.511	13.9
Carbon Disulfide	2.481	2.892	2.311	2.481	2.334	2.500	9.3
1,1-Dichloroethene *	0.965	0.993	0.789	0.882	0.768	0.879	11.5*
1,1-Dichloroethane #	1.975	2.066	1.638	1.852	1.594	1.825	11.3#
-Dichloroethene (total)	1.134	1.218	1.000	0.990	0.926	1.054	11.3
roform *	2.820	2.943	2.377	2.687	2.310	2.629	10.6*
1,2-Dichloroethane	2.189	2.182	2.019	1.995	1.798	2.037	7.9
2-Butanone	0.133	0.159	0.129	0.162	0.152	0.147	10.3
1,1,1-Trichloroethane	0.752	0.725	0.699	0.697	0.638	0.702	6.0
Carbon Tetrachloride	0.691	0.710	0.626	0.728	0.611	0.673	7.7
Vinyl Acetate	0.412	0.476	0.463	0.520	0.520	0.478	9.4
Bromodichloromethane	0.810	0.815	0.803	0.813	0.753	0.799	3.3
1,2-Dichloropropane *	0.312	0.341	0.292	0.359	0.321	0.325	8.0*
cis-1,3-Dichloropropene	0.485	0.537	0.520	0.544	0.520	0.521	4.4
Trichloroethene	0.526	0.528	0.434	0.525	0.466	0.496	8.7
Dibromochloromethane	0.831	0.909	0.833	0.919	0.840	0.866	5.0
1,1,2-Trichloroethane	0.433	0.447	0.375	0.438	0.393	0.417	7.5
Benzene	0.773	0.816	0.747	0.768	0.733	0.767	4.1
Trans-1,3-Dichloropropene	0.650	0.698	0.710	0.732	0.678	0.694	4.5
Bromoform #	0.704	0.819	0.807	0.803	0.731	0.773	6.7#
4-Methyl-2-Pentanone	0.561	0.520	0.499	0.610	0.545	0.547	7.8
2-Hexanone	0.362	0.387	0.361	0.485	0.428	0.405	12.0
Tetrachloroethene	0.539	0.558	0.473	0.500	0.453	0.505	8.7
1,1,2,2-Tetrachloroethane #	0.754	0.810	0.817	0.884	0.786	0.810	5.9#
Toluene *	0.589	0.621	0.580	0.595	0.542	0.585	4.9*
Chlorobenzene #	0.955	0.999	0.852	0.994	0.863	0.933	7.6#
Ethylbenzene *	0.427	0.432	0.405	0.420	0.385	0.414	4.6*
Styrene	0.881	0.921	0.833	0.921	0.836	0.878	4.9
Total Xylenes	0.556	0.562	0.501	0.543	0.492	0.531	6.1
ene-d8	0.988	0.937	0.907	1.018	0.907	0.951	5.2
Bro	0.817	0.872	0.734	0.817	0.740	0.796	7.3
1,2-Dichloroethane-d4	1.746	1.723	1.538	1.673	1.492	1.632	7.1

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CEIMIC CORP Contract: 68D90024

Lab Code: CEIMIC Case No.: 16472 SAS No.: _____ SDG No.: CGB60

Instrument ID: MS5 Calibration date: 05/23/91 Time: 1157

Lab File ID: E3985 Init. Calib. Date(s): 05/23/91 05/23/91

Matrix:(soil/water) SOIL Level:(low/med) LOW Column:(pack/cap) PACK

Min RRF50 for SPCC(#) = 0.300 (0.250 for Bromoform) Max %D for CCC(*) = 25.0%

COMPOUND	RRF	RRF50	%D	
Chloromethane	#	0.548	0.349	36.3	#
Bromomethane		0.964	0.931	3.4	
Vinyl Chloride	*	0.812	0.617	24.0	*
Chloroethane		0.558	0.513	8.1	
Methylene Chloride		1.216	1.519	-24.9	
Acetone		0.511	0.614	-20.2	
Carbon Disulfide		2.500	2.442	2.3	
1,1-Dichloroethene	*	0.879	1.030	-17.2	*
1,1-Dichloroethane	#	1.825	2.134	-16.9	#
1,2-Dichloroethene (total)		1.054	1.148	-8.9	
Chloroform	*	2.629	3.109	-18.3	*
1,2-Dichloroethane		2.037	2.332	-14.5	
2-Butanone		0.147	0.189	28.6	
1,1,1-Trichloroethane		0.702	0.738	-5.1	
Carbon Tetrachloride		0.673	0.717	-6.5	
Vinyl Acetate		0.478	0.435	9.0	
Bromodichloromethane		0.799	0.846	-5.9	
1,2-Dichloropropane	*	0.325	0.356	-9.5	*
cis-1,3-Dichloropropene		0.521	0.546	-4.8	
Trichloroethene		0.496	0.519	-4.6	
Dibromochloromethane		0.866	0.948	-9.5	
1,1,2-Trichloroethane		0.417	0.475	-13.9	
Benzene		0.767	0.811	-5.7	
Trans-1,3-Dichloropropene		0.694	0.714	-2.9	
Bromoform	#	0.773	0.854	-10.5	#
4-Methyl-2-Pentanone		0.547	0.682	-24.7	
2-Hexanone		0.405	0.519	-28.2	
Tetrachloroethene		0.505	0.573	-13.5	
1,1,2,2-Tetrachloroethane	#	0.810	1.007	-24.3	#
Toluene	*	0.585	0.662	-13.2	*
Chlorobenzene	#	0.933	1.065	-14.2	#
Ethylbenzene	*	0.414	0.462	-11.6	*
Styrene		0.878	1.016	-15.7	
Total Xylenes		0.531	0.579	-9.0	
Toluene-d8		0.951	0.964	-1.4	
BFB		0.796	0.902	-13.3	
1,2-Dichloroethane-d4		1.632	1.770	-8.5	

Samples
VBIK07
CGB63

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CEIMIC CORP Contract: 68D90024

Lab Code: CEIMIC Case No.: 16472 SAS No.: _____ SDG No.: CGB60

Instrument ID: MS5 Calibration date: 06/01/91 Time: 0957

Lab File ID: E4023 Init. Calib. Date(s): 05/23/91 05/23/91

Matrix:(soil/water) SOIL Level:(low/med) LOW Column:(pack/cap) PACK

Min RRF50 for SPCC(#) = 0.300 (0.250 for Bromoform) Max %D for CCC(*) = 25.0%

COMPOUND		RRF	RRF50	%D	
Chloromethane	#	0.548	0.429	21.7	#
Bromomethane		0.964	1.262	-30.9	
Vinyl Chloride	*	0.812	0.662	18.5	*
Chloroethane		0.558	0.501	10.2	
Methylene Chloride		1.216	1.595	-31.2	
Acetone		0.511	0.710	-38.9	
Carbon Disulfide		2.500	2.308	7.7	
1,1-Dichloroethene	*	0.879	0.850	3.3	*
1,1-Dichloroethane	#	1.825	1.946	-6.6	#
1,2-Dichloroethene (total)		1.054	1.080	-2.5	
Chloroform	*	2.629	2.055	-16.2	*
1,2-Dichloroethane		2.037	2.565	-25.9	
2-Butanone		0.147	0.183	-24.5	
1,1,1-Trichloroethane		0.702	0.739	-5.3	
Carbon Tetrachloride		0.673	0.673	0.0	
Vinyl Acetate		0.478	0.487	-1.9	
Bromodichloromethane		0.799	1.024	-28.2	
1,2-Dichloropropane	*	0.325	0.309	4.9	*
cis-1,3-Dichloropropene		0.521	0.611	-17.3	
Trichloroethene		0.496	0.474	4.4	
Dibromochloromethane		0.866	1.059	-22.3	
1,1,2-Trichloroethane		0.417	0.412	1.2	
Benzene		0.767	0.735	4.2	
Trans-1,3-Dichloropropene		0.694	0.825	-18.9	
Bromoform	#	0.773	1.070	-38.4	#
4-Methyl-2-Pentanone		0.547	0.559	-2.2	
2-Hexanone		0.405	0.427	-5.4	
Tetrachloroethene		0.505	0.563	-11.5	
1,1,2,2-Tetrachloroethane	#	0.810	1.020	-25.9	#
Toluene	*	0.585	0.631	-7.9	*
Chlorobenzene	#	0.933	0.957	-2.6	#
Ethylbenzene	*	0.414	0.473	-14.2	*
Styrene		0.878	0.908	-3.4	
Total Xylenes		0.531	0.534	-0.6	
Toluene-d8		0.951	0.954	-0.3	
BFB		0.796	0.872	-9.5	
1,2-Dichloroethane-d4		1.632	1.966	-20.5	

Sample
VBIK02
CGB62MS
CGB62

C. 178

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CEIMIC CORP Contract: 68D90024

Lab Code: CEIMIC Case No.: 16472 SAS No.: _____ SDG No.: CGB60

Instrument ID: MS5 Calibration date: 06/04/91 Time: 1104

Lab File ID: E4038 Init. Calib. Date(s): 05/23/91 05/23/91

Matrix: (soil/water) SOIL Level: (low/med) LOW Column: (pack/cap) PACK

Min RRF50 for SPCC(#) = 0.300 (0.250 for Bromoform) Max %D for CCC(*) = 25.0%

COMPOUND	RRF	RRF50	%D	
Chloromethane	#	0.548	0.506	7.7	#
Bromomethane		0.964	1.424	-47.7	
Vinyl Chloride	*	0.812	0.889	-9.5	*
Chloroethane		0.558	0.594	-6.5	
Methylene Chloride		1.216	1.716	-41.1	
Acetone		0.511	0.659	-29.0	
Carbon Disulfide		2.500	2.270	9.2	
1,1-Dichloroethene	*	0.879	0.816	7.2	*
1,1-Dichloroethane	#	1.825	1.841	-0.9	#
1,2-Dichloroethene (total)		1.054	1.130	-7.2	
Chloroform	*	2.629	2.892	-10.0	*
1,2-Dichloroethane		2.037	2.328	-14.3	
2-Butanone		0.147	0.172	-17.0	
1,1,1-Trichloroethane		0.702	0.755	-7.6	
Carbon Tetrachloride		0.673	0.679	-0.9	
Vinyl Acetate		0.478	0.470	1.7	
Bromodichloromethane		0.799	0.916	-14.6	
1,2-Dichloropropane	*	0.325	0.320	1.5	*
cis-1,3-Dichloropropene		0.521	0.562	-7.9	
Trichloroethene		0.496	0.550	-10.9	
Dibromochloromethane		0.866	1.154	-33.3	
1,1,2-Trichloroethane		0.417	0.432	-3.6	
Benzene		0.767	0.774	-0.9	
Trans-1,3-Dichloropropene		0.694	0.779	-12.2	
Bromoform	#	0.773	0.981	-26.9	#
4-Methyl-2-Pentanone		0.547	0.593	-8.4	
2-Hexanone		0.405	0.433	-6.9	
Tetrachloroethene		0.505	0.602	-19.2	
1,1,2,2-Tetrachloroethane	#	0.810	0.904	-11.6	#
Toluene	*	0.585	0.608	-3.9	*
Chlorobenzene	#	0.933	0.969	-3.9	#
Ethylbenzene	*	0.414	0.428	-3.4	*
Styrene		0.878	0.955	-8.8	
Total Xylenes		0.531	0.558	-5.1	
Toluene-d8		0.951	0.882	7.3	
BFB		0.796	0.819	-2.9	
1,2-Dichloroethane-d4		1.632	1.756	-7.6	

Sample

VBLCC

C6B631

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FORM VII VOA

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6A

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CEIMIC CORP Contract: 68D90024

Lab Code: CEIMIC Case No.: 16472 SAS No.: _____ SDG No.: C8860

Instrument ID: MS2 Calibration Date(s): 05/29/91 05/29/91

Matrix:(soil/water) WATER Level:(low/med) LOW Column:(pack/cap) CAP

Min $\overline{RRF}$ for SPCC(#) = 0.300 (0.250 for Bromoform) Max %RSD for CCC(*) = 30.0

LAB FILE ID: RRF20 = B9727 RRF50 = B9726

RRF100= B9728 RRF150= B9729 RRF200= B9730

COMPOUND	RRF20	RRF50	RRF100	RRF150	RRF200	$\overline{RRF}$	% RSD
Chloromethane #	0.588	0.622	0.653	0.533	0.445	0.568	14.4
Bromomethane	1.116	1.062	1.284	0.960	0.849	1.054	15.6
Vinyl Chloride *	0.771	0.766	0.907	0.671	0.613	0.746	15.0
Chloroethane	0.319	0.562	0.541	0.424	0.394	0.448	22.6
Methylene Chloride	1.332	1.239	1.241	1.029	0.921	1.152	14.8
Acetone	0.538	0.430	0.453	0.410	0.349	0.436	15.8
Carbon Disulfide	2.700	2.455	3.047	2.658	2.263	2.625	11.2
1,1-Dichloroethene *	0.942	0.893	1.023	0.909	0.919	0.917	8.1
1,1-Dichloroethane #	2.429	2.395	2.621	1.746	2.029	2.244	15.6
1,2-Dichloroethene (total)	1.264	1.139	1.317	0.796	0.925	1.088	20.4
Chloroform *	3.676	3.811	4.093	2.881	3.247	3.542	13.5
1,2-Dichloroethane	3.934	3.709	4.281	3.122	3.090	3.627	14.3
2-Butanone	0.092	0.088	0.105	0.077	0.081	0.089	12.2
1,1,1-Trichloroethane	0.984	0.857	1.223	0.841	0.826	0.946	17.6
Carbon Tetrachloride	0.947	0.873	1.016	0.787	0.864	0.897	9.7
Vinyl Acetate	0.768	0.716	0.913	0.584	0.646	0.725	17.4
Bromodichloromethane	0.925	0.929	1.171	1.050	0.893	0.994	11.8
1,2-Dichloropropane *	0.288	0.306	0.358	0.307	0.278	0.307	10.0
cis-1,3-Dichloropropene	0.555	0.529	0.682	0.614	0.501	0.576	12.6
Trichloroethene	0.491	0.467	0.570	0.467	0.459	0.491	9.3
Dibromochloromethane	0.940	0.904	1.192	1.175	0.890	1.020	14.7
1,1,2-Trichloroethane	0.382	0.364	0.446	0.442	0.335	0.394	12.4
Benzene	0.722	0.683	0.880	0.703	0.635	0.725	12.8
Trans-1,3-Dichloropropene	0.768	0.747	0.966	0.939	0.747	0.833	13.1
Bromoform #	1.023	0.936	1.287	1.295	0.910	1.090	17.2
4-Methyl-2-Pentanone	0.527	0.443	0.613	0.530	0.467	0.516	12.8
2-Hexanone	0.368	0.319	0.440	0.405	0.339	0.374	13.1
Tetrachloroetnene	0.720	0.625	0.844	0.703	0.610	0.700	13.3
1,1,2,2-Tetrachloroethane #	0.718	0.674	0.915	0.801	0.658	0.753	14.1
Toluene *	0.643	0.625	0.836	0.661	0.556	0.664	15.7
Chlorobenzene #	0.943	1.015	1.241	1.044	0.911	1.031	12.5
Ethylbenzene *	0.414	0.387	0.522	0.439	0.344	0.421	15.8
Styrene	0.929	0.922	1.077	0.992	0.811	0.946	10.4
Total Xylenes	0.499	0.461	0.596	0.525	0.450	0.506	11.6
Toluene-d8	1.050	0.943	1.307	0.959	0.975	1.047	14.4
BFB	1.046	1.140	1.349	0.930	0.933	1.080	16.1
1,2-Dichloroethane-d4	3.111	2.782	3.274	2.145	2.535	2.769	16.3

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VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CEIMIC CORP Contract: 68D90024

Lab Code: CEIMIC Case No.: 16472 SAS No.: _____ SDG No.: CGB60

Instrument ID: MS2 Calibration date: 05/30/91 Time: 1625

Lab File ID: B9741 Init. Calib. Date(s): 05/29/91 05/29/91

Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) CAP

Min RRF50 for SPCC(#) = 0.300 (0.250 for Bromoform) Max %D for CCC(*) = 25.0%

COMPOUND	RRF	RRF50	%D	
Chloromethane	#	0.568	0.474	16.6	#
Bromomethane		1.054	1.193	-13.2	
Vinyl Chloride	*	0.746	0.696	6.7	*
Chloroethane		0.448	0.546	-21.9	
Methylene Chloride		1.152	1.084	5.9	
Acetone		0.436	0.471	-8.0	
Carbon Disulfide		2.625	2.410	8.2	
1,1-Dichloroethene	*	0.917	1.002	-9.3	*
1,1-Dichloroethane	#	2.244	2.371	-5.7	#
1,2-Dichloroethene (total)		1.088	1.227	-12.8	
Chloroform	*	3.542	3.839	-8.4	*
1,2-Dichloroethane		3.627	3.999	-10.3	
2-Butanone		0.089	0.097	-9.0	
1,1,1-Trichloroethane		0.946	1.043	-10.2	
Carbon Tetrachloride		0.897	0.963	-7.4	
Vinyl Acetate		0.725	0.718	1.0	
Bromodichloromethane		0.994	1.041	-4.7	
1,2-Dichloropropane	*	0.307	0.282	8.1	*
cis-1,3-Dichloropropene		0.576	0.583	-1.2	
Trichloroethene		0.491	0.502	-2.2	
Dibromochloromethane		1.020	0.956	6.3	
1,1,2-Trichloroethane		0.394	0.375	4.8	
Benzene		0.725	0.731	-0.8	
Trans-1,3-Dichloropropene		0.833	0.853	-2.4	
Bromoform	#	1.090	1.136	-4.2	#
4-Methyl-2-Pentanone		0.516	0.560	-8.5	
2-Hexanone		0.374	0.419	-12.0	
Tetrachloroethene		0.700	0.756	-8.0	
1,1,2,2-Tetrachloroethane	#	0.753	0.810	-7.6	#
Toluene	*	0.664	0.714	-7.5	*
Chlorobenzene	#	1.031	1.082	-4.9	#
Ethylbenzene	*	0.421	0.473	-12.4	*
Styrene		0.946	0.990	-4.7	
Total Xylenes		0.506	0.522	-3.2	
Toluene-d8		1.047	0.955	8.8	
BFB		1.080	1.084	-0.4	
1,2-Dichloroethane-d4		2.769	2.855	-3.1	

Samples
VBIK03
CGB65

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SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CEIMIC CORP Contract: 68D90024

Lab Code: CEIMIC Case No.: 16472 SAS No.: _____ SDG No.: CGB60

Instrument ID: MS4 Calibration Date(s): 05/21/91 05/21/91

Min $\overline{RRF}$ for SPCC(#) = 0.050 Max %RSD for CCC(*) = 30.0

LAB FILE ID: RRF20 = DS608 RRF50 = DS607
RRF80 = DS609 RRF120= DS610 RRF160= DS612

COMPOUND	RRF20	RRF50	RRF80	RRF120	RRF160	$\overline{RRF}$	%RSD
Phenol *	2.006	2.048	1.739	1.875	1.697	1.873	8.3
bis(2-Chloroethyl)Ether	1.772	1.809	1.712	1.605	1.490	1.678	7.9
2-Chlorophenol	1.562	1.595	1.539	1.429	1.405	1.506	5.6
1,3-Dichlorobenzene	1.657	1.628	1.577	1.579	1.494	1.587	3.9
1,4-Dichlorobenzene *	1.644	1.622	1.535	1.407	1.357	1.513	8.4
Benzyl Alcohol	0.884	0.938	0.986	0.910	0.924	0.908	2.6
1,2-Dichlorobenzene	1.563	1.541	1.401	1.276	1.213	1.399	11.1
2-Methylphenol	1.448	1.431	1.314	1.228	1.154	1.315	9.7
bis(2-Chloroisopropyl)Ether	2.461	2.513	2.514	2.551	2.572	2.526	1.4
4-Methylphenol	1.395	1.290	1.196	1.186	1.168	1.247	7.6
N-Nitroso-Di-n-Propylamine #	1.271	1.212	1.158	1.233	1.257	1.226	3.6
Hexachloroethane	0.720	0.685	0.644	0.631	0.590	0.652	7.9
Nitrobenzene	0.453	0.460	0.428	0.403	0.398	0.428	6.6
Isophorone	1.016	1.002	0.989	0.989	0.793	0.960	9.9
2-Nitrophenol *	0.236	0.256	0.240	0.240	0.228	0.240	4.2
2,4-Dimethylphenol	0.412	0.423	0.401	0.402	0.391	0.406	3.0
Benzoic Acid		0.175	0.136	0.124	0.099	0.134	23.6
bis(2-Chloroethoxy)Methane	0.573	0.569	0.546	0.500	0.498	0.537	6.8
2,4-Dichlorophenol *	0.314	0.327	0.294	0.297	0.290	0.304	5.1
1,2,4-Trichlorobenzene	0.345	0.336	0.315	0.302	0.301	0.320	6.2
Naphthalene	1.124	1.097	0.954	0.868	0.787	0.966	15.0
4-Chloroaniline	0.452	0.487	0.452	0.435	0.420	0.449	5.6
Hexachlorobutadiene *	0.174	0.172	0.158	0.155	0.148	0.161	7.0
4-Chloro-3-Methylphenol *	0.372	0.398	0.369	0.380	0.362	0.376	3.9
2-Methylnaphthalene	0.743	0.719	0.638	0.622	0.572	0.659	10.7
Hexachlorocyclopentadiene #	0.238	0.287	0.302	0.304	0.293	0.285	9.6
2,4,6-Trichlorophenol *	0.410	0.429	0.428	0.371	0.389	0.407	6.8
2,4,5-Trichlorophenol		0.486	0.471	0.425	0.418	0.450	7.5
2-Chloronaphthalene	1.355	1.391	1.294	1.130	1.064	1.247	11.5
2-Nitroaniline		0.565	0.583	0.575	0.566	0.572	1.5
Dimethyl Phthalate	1.786	1.718	1.575	1.389	1.380	1.570	11.8
Acenaphthylene	2.292	2.130	1.969	1.631	1.505	1.905	17.4
2,6-Dinitrotoluene	0.440	0.479	0.469	0.443	0.426	0.453	4.3
3-Nitroaniline		0.461	0.479	0.469	0.454	0.466	2.3
Acenaphthene *	1.290	1.312	1.249	1.084	1.022	1.191	10.9
2,4-Dinitrophenol #		0.167	0.225	0.260	0.305	0.239	24.4
4-Nitrophenol #		0.195	0.227	0.222	0.225	0.217	6.9

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CEIMIC CORP Contract: 68D90024

Lab Code: CEIMIC Case No.: 18472 SAS No.: _____ SDG No.: CBE

Instrument ID: MS4 Calibration Date(s): 05/21/91 05/21/91

Min $\overline{RRF}$ for SPCC(#) = 0.050 Max %RSD for CCC(*) = 30.

LAB FILE ID: RRF20 = D5606 RRF50 = D5607
RRF80 = D5609 RRF120= D5610 RRF160= D5612

COMPOUND	RRF20	RRF50	RRF80	RRF120	RRF160	$\overline{RRF}$	% RSD
Dibenzofuran	1.962	1.894	1.858	1.642	1.577	1.787	9.
2,4-Dinitrotoluene	0.587	0.622	0.617	0.601	0.618	0.609	2.
Diethylphthalate	1.906	1.874	1.697	1.335	1.160	1.594	20.
4-Chlorophenyl-phenylether	0.711	0.698	0.617	0.496	0.456	0.596	19.
Fluorene	1.518	1.469	1.439	1.278	1.231	1.387	9.
4-Nitroaniline		0.441	0.531	0.508	0.538	0.504	8.
4,6-Dinitro-2-Methylphenol		0.182	0.178	0.190	0.182	0.182	2.
N-Nitrosodiphenylamine (1) *	0.683	0.602	0.517	0.448	0.378	0.520	21.
4-Bromophenyl-phenylether	0.228	0.232	0.218	0.201	0.206	0.218	6.
Hexachlorobenzene	0.262	0.271	0.228	0.222	0.223	0.239	9.
Pentachlorophenol *		0.157	0.154	0.152	0.152	0.154	1.
Phenanthrene	1.274	1.220	1.068	1.006	0.984	1.110	11.
Anthracene	1.336	1.268	1.115	1.017	0.988	1.135	11.
Di-n-Butylphthalate	2.105	1.921	1.678	1.649	1.542	1.781	.
Fluoranthene *	1.477	1.421	1.295	1.112	1.108	1.291	13.
Pyrene	1.637	1.778	1.894	1.953	2.063	1.869	9.
Butylbenzylphthalate	0.937	1.094	1.198	1.340	1.349	1.184	14.
3,3'-Dichlorobenzidine	0.251	0.344	0.402	0.437	0.462	0.379	22.
Benzo(a)Anthracene	1.321	1.466	1.580	1.829	1.819	1.605	13.
Chrysene	1.318	1.421	1.497	1.590	1.590	1.485	7.
bis(2-Ethylhexyl)Phthalate	1.376	1.599	1.742	1.786	1.783	1.657	10.
Di-n-Octyl Phthalate *	2.775	2.898	2.478	2.230	2.101	2.494	13.
Benzo(b)Fluoranthene	1.424	1.514	1.753	1.900	1.857	1.692	12.
Benzo(k)Fluoranthene	1.296	1.264	0.723	0.495	0.381	0.832	51.
Benzo(a)Pyrene *	1.236	1.248	1.176	1.161	1.142	1.193	3.
Indeno(1,2,3-cd)Pyrene	0.799	0.921	1.140	1.197	1.156	1.045	16.
Dibenz(a,h)Anthracene	0.823	0.937	0.946	1.001	0.971	0.936	7.
Benzo(g,h,i)Perylene	0.787	0.873	0.898	0.986	0.929	0.894	8.
Nitrobenzene-d5	0.457	0.461	0.443	0.443	0.414	0.444	4.
2-Fluorobiphenyl	1.324	1.308	1.238	1.127	1.030	1.205	10.
Terphenyl-d14	0.951	1.022	1.088	1.062	1.019	1.028	5.
Phenol-d5	2.121	2.214	2.149	2.064	1.999	2.109	3.
2-Fluorophenol	1.447	1.521	1.552	1.499	1.478	1.499	2.
2,4,6-Tribromophenol	0.151	0.181	0.200	0.191	0.202	0.185	11.

(1) Cannot be separated from Diphenylamine

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CEIMIC CORP Contract: 68D90024

Lab Code: CEIMIC Case No.: 16472 SAS No.: _____ SDG No.: CBB60

:rument ID: MS4 Calibration date: 05/24/91 Time: 1149

Lab File ID: DS836 Init. Calib. Date(s): 05/21/91 05/21/91

Min RRF50 for SPCC(#) = 0.050 Max %D for CCC(*) = 25.0%

COMPOUND	RRF	RRF50	%D	
Phenol	1.873	1.973	-5.3	*
bis(2-Chloroethyl)Ether	1.678	1.795	-7.0	
2-Chlorophenol	1.506	1.552	-3.1	
1,3-Dichlorobenzene	1.587	1.596	-0.6	
1,4-Dichlorobenzene	1.513	1.611	-6.5	*
Benzyl Alcohol	0.908	0.970	-6.8	
1,2-Dichlorobenzene	1.399	1.519	-8.6	
2-Methylphenol	1.315	1.478	-12.4	
bis(2-Chloroisopropyl)Ether	2.526	2.707	-7.2	
4-Methylphenol	1.247	1.351	-8.3	
N-Nitroso-Di-n-Propylamine	1.226	1.237	-0.9	#
Hexachloroethane	0.652	0.694	-6.4	
Nitrobenzene	0.429	0.448	-4.7	
Isophorone	0.960	0.969	-0.9	
2-Nitrophenol	0.240	0.260	-8.3	*
2,4-Dimethylphenol	0.406	0.421	-3.7	
Benzoic Acid	0.134	0.161	-20.2	
bis(2-Chloroethoxy)Methane	0.537	0.598	-11.4	
2,4-Dichlorophenol	0.304	0.325	-6.9	*
1,2,4-Trichlorobenzene	0.320	0.343	-7.2	
Naphthalene	0.966	1.084	-12.2	
4-Chloroaniline	0.449	0.463	-3.1	
Hexachlorobutadiene	0.161	0.179	-11.2	*
4-Chloro-3-Methylphenol	0.376	0.396	-5.3	*
2-Methylnaphthalene	0.659	0.702	-6.7	
Hexachlorocyclopentadiene	0.295	0.264	7.4	#
2,4,6-Trichlorophenol	0.407	0.431	-5.9	*
2,4,5-Trichlorophenol	0.450	0.468	-4.0	
2-Chloronaphthalene	1.247	1.323	-6.1	
2-Nitroaniline	0.572	0.600	-4.9	
Dimethyl Phthalate	1.570	1.740	-10.8	
Acenaphthylene	1.905	2.189	-14.9	
2,6-Dinitrotoluene	0.453	0.484	-6.8	
3-Nitroaniline	0.466	0.444	4.7	
Acenaphthene	1.191	1.292	-8.5	*
2,4-Dinitrophenol	0.239	0.142	40.6	#
4-Nitrophenol	0.217	0.221	-1.8	#

SAMPLES SELD

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CEIMIC CORP Contract: 68D90024

Lab Code: CEIMIC Case No.: 16472 SAS No.: _____ SDG No.: CQB60

Instrument ID: MS4 Calibration date: 05/24/91 Time: 1149

Lab File ID: D5836 Init. Calib. Date(s): 05/21/91 05/21/91

Min RRF50 for SPCC(#) = 0.050 Max %D for CCC(*) = 25.0%

COMPOUND	RRF	RRF50	%D	
Dibenzofuran	1.787	1.924	-7.7	
2,4-Dinitrotoluene	0.609	0.631	-3.6	
Diethylphthalate	1.594	1.937	-21.5	
4-Chlorophenyl-phenylether	0.586	0.684	-14.8	
Fluorene	1.387	1.461	-5.3	
4-Nitroaniline	0.504	0.447	11.3	
4,6-Dinitro-2-Methylphenol	0.183	0.135	26.2	
N-Nitrosodiphenylamine (1) *	0.520	0.569	-9.4	*
4-Bromophenyl-phenylether	0.216	0.224	-3.7	
Hexachlorobenzene	0.229	0.256	-8.0	
Pentachlorophenol *	0.154	0.133	13.6	*
Phenanthrene	1.110	1.203	-8.4	
Anthracene	1.125	1.206	-6.3	
Di-n-Butylphthalate	1.781	2.037	-14.4	
Fluoranthene *	1.291	1.430	-11.6	*
Pyrene	1.869	1.694	9.4	
Butylbenzylphthalate	1.184	1.151	2.8	
3,3'-Dichlorobenzidine	0.379	0.426	-12.4	
Benzo(a)Anthracene	1.605	1.483	7.6	
Chrysene	1.485	1.441	3.0	
bis(2-Ethylhexyl)Phthalate	1.657	1.660	-0.2	
Di-n-Octyl Phthalate *	2.494	2.743	-10.0	*
Benzo(b)Fluoranthene	1.692	1.414	16.4	
Benzo(k)Fluoranthene	0.622	1.267	-51.1	
Benzo(a)Pyrene *	1.193	1.285	-7.7	*
Indeno(1,2,3-cd)Pyrene	1.045	1.240	-18.7	
Dibenz(a,h)Anthracene	0.936	1.217	-30.0	
Benzo(g,h,i)Perylene	0.924	1.198	-34.0	
Nitrobenzene-d5	0.444	0.465	-4.7	
2-Fluorobiphenyl	1.205	1.298	-8.9	
Terphenyl-d14	1.029	1.059	-3.0	
Phenol-d5	2.109	2.162	-2.5	
2-Fluorophenol	1.499	1.263	15.7	
2,4,6-Tribromophenol	0.185	0.199	-7.6	

(1) Cannot be separated from Diphenylamine

7B

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CEIMIC CORP Contract: 68D90024

Lab Code: CEIMIC Case No.: 16472 SAS No.: _____ SDG No.: CG860

trument ID: MS4 Calibration date: 05/30/91 Time: 1238

Lab File ID: D5624 Init. Calib. Date(s): 05/21/91 05/21/91

Min RRF50 for SPCC(#) = 0.050 Max %D for CCC(*) = 25.0%

COMPOUND	RRF	RRF50	%D	
Phenol	1.973	2.117	-13.0	*
bis(2-Chloroethyl)Ether	1.678	1.812	-8.0	
2-Chlorophenol	1.506	1.562	-3.7	
1,3-Dichlorobenzene	1.587	1.634	-3.0	
1,4-Dichlorobenzene	1.513	1.629	-7.7	*
Benzyl Alcohol	0.908	0.997	-9.8	
1,2-Dichlorobenzene	1.389	1.486	-6.2	
2-Methylphenol	1.315	1.401	-6.5	
bis(2-Chloroisopropyl)Ether	2.526	2.884	-14.2	
4-Methylphenol	1.247	1.298	-3.9	
N-Nitroso-Di-n-Propylamine	1.228	1.203	1.9	#
Hexachloroethane	0.652	0.629	3.5	
Nitrobenzene	0.428	0.461	-7.7	
Isophorone	0.960	1.001	-4.3	
2-Nitrophenol	0.240	0.258	-7.5	*
2,4-Dimethylphenol	0.406	0.412	-1.5	
Benzoic Acid	0.134	0.218	-82.7	
bis(2-Chloroethoxy)Methane	0.537	0.601	-11.9	
2,4-Dichlorophenol	0.304	0.326	-7.2	*
1,2,4-Trichlorobenzene	0.320	0.345	-7.8	
Naphthalene	0.966	1.067	-10.5	
4-Chloroaniline	0.449	0.466	-3.8	
Hexachlorobutadiene	0.161	0.190	-18.0	*
4-Chloro-3-Methylphenol	0.376	0.398	-5.9	*
2-Methylnaphthalene	0.659	0.728	-10.5	
Hexachlorocyclopentadiene	0.285	0.202	29.1	#
2,4,6-Trichlorophenol	0.407	0.449	-10.3	*
2,4,5-Trichlorophenol	0.460	0.520	-15.6	
2-Chloronaphthalene	1.247	1.320	-5.9	
2-Nitroaniline	0.572	0.625	-9.3	
Dimethyl Phthalate	1.570	1.784	-13.6	
Acenaphthylene	1.905	2.165	-13.6	
2,6-Dinitrotoluene	0.453	0.508	-12.1	
3-Nitroaniline	0.466	0.465	0.2	
Acenaphthene	1.191	1.340	-12.5	*
2,4-Dinitrophenol	0.239	0.129	46.1	#
4-Nitrophenol	0.217	0.230	-6.0	#

sample CG626

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CEIMIC CORP Contract: 68D90024

Lab Code: CEIMIC Case No.: 16472 SAS No.: _____ SDG No.: CGB60

Instrument ID: MS4 Calibration date: 05/30/91 Time: 1238

Lab File ID: DS684 Init. Calib. Date(s): 05/21/91 05/21/91

Min RRF50 for SPCC(#) = 0.050 Max %D for CCC(*) = 25.0%

COMPOUND	RRF	RRF50	%D	
Dibenzofuran	1.787	1.979	-10.7	
2,4-Dinitrotoluene	0.609	0.660	-8.4	
Diethylphthalate	1.594	2.042	-28.1	
4-Chlorophenyl-phenylether	0.596	0.719	-20.6	
Fluorene	1.387	1.601	-15.4	
4-Nitroaniline	0.504	0.482	4.4	
4,6-Dinitro-2-Methylphenol	0.162	0.140	23.5	
N-Nitrosodiphenylamine (1) *	0.520	0.561	-7.9	*
4-Bromophenyl-phenylether	0.216	0.210	2.8	
Hexachlorobenzene	0.229	0.245	-2.5	
Pentachlorophenol *	0.154	0.129	16.2	*
Phenanthrene	1.110	1.152	-3.8	
Anthracene	1.135	1.181	-4.1	
Di-n-Butylphthalate	1.781	2.074	-16.4	
Fluoranthene *	1.281	1.387	-8.3	*
Pyrene	1.869	1.747	6.5	
Butylbenzylphthalate	1.184	1.175	0.8	
3,3'-Dichlorobenzidine	0.379	0.458	-20.8	
Benzo(a)Anthracene	1.605	1.499	6.6	
Chrysene	1.485	1.476	0.6	
bis(2-Ethylhexyl)Phthalate	1.657	1.729	-4.3	
Di-n-Octyl Phthalate *	2.494	2.936	-17.7	*
Benzo(b)Fluoranthene	1.692	1.640	3.1	
Benzo(k)Fluoranthene	0.832	1.146	-37.7	
Benzo(a)Pyrene *	1.193	1.264	-6.0	*
Indeno(1,2,3-cd)Pyrene	1.045	1.186	-13.5	
Dibenz(a,h)Anthracene	0.936	1.134	-21.2	
Benzo(g,h,i)Perylene	0.894	1.101	-23.2	
Nitrobenzene-d5	0.444	0.471	-6.1	
2-Fluorobiphenyl	1.205	1.323	-9.8	
Terphenyl-d14	1.028	1.053	-2.4	
Phenol-d5	2.109	2.277	-8.0	
2-Fluorophenol	1.499	1.503	-0.3	
2,4,6-Tribromophenol	0.195	0.216	-16.8	

(1) Cannot be separated from Diphenylamine

418

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CEIMIC CORP Contract: 68D90024

Lab Code: CEIMIC Case No.: 16472 SAS No.: _____ SDG No.: CGB60

Instrument ID: MS4 Calibration date: 06/10/91 Time: 1408

Lab File ID: DS629 Init. Calib. Date(s): 05/21/91 05/21/91

Min RRF50 for SPCC(#) = 0.050 Max %D for CCC(*) = 25.0%

COMPOUND		RRF	RRF50	%D	
Phenol	*	1.973	2.012	-7.4	*
bis(2-Chloroethyl)Ether		1.678	1.734	-3.3	
2-Chlorophenol		1.506	1.552	-3.1	
1,3-Dichlorobenzene		1.587	1.648	-3.8	
1,4-Dichlorobenzene	*	1.513	1.608	-6.3	*
Benzyl Alcohol		0.908	0.991	-9.1	
1,2-Dichlorobenzene		1.399	1.528	-9.2	
2-Methylphenol		1.215	1.462	-11.2	
bis(2-Chloroisopropyl)Ether		2.526	3.021	-19.6	
4-Methylphenol		1.247	1.467	-17.6	
N-Nitroso-Di-n-Propylamine	#	1.226	1.344	-9.6	#
Hexachloroethane		0.652	0.706	-8.3	
Nitrobenzene		0.429	0.467	-9.1	
Isophorone		0.980	1.011	-5.3	
2-Nitrophenol	*	0.240	0.291	-17.1	*
2,4-Dimethylphenol		0.406	0.398	2.0	
Benzoic Acid		0.134	0.241	-79.8	
bis(2-Chloroethoxy)Methane		0.537	0.592	-10.2	
2,4-Dichlorophenol	*	0.304	0.346	-13.8	*
1,2,4-Trichlorobenzene		0.320	0.343	-7.2	
Naphthalene		0.966	1.079	-11.7	
4-Chloroaniline		0.449	0.481	-7.1	
Hexachlorobutadiene	*	0.161	0.175	-8.7	*
4-Chloro-3-Methylphenol	*	0.376	0.432	-14.9	*
2-Methylnaphthalene		0.659	0.751	-14.0	
Hexachlorocyclopentadiene	#	0.285	0.243	14.7	#
2,4,6-Trichlorophenol	*	0.407	0.449	-10.3	*
2,4,5-Trichlorophenol		0.450	0.506	-12.4	
2-Chloronaphthalene		1.247	1.384	-11.0	
2-Nitroaniline		0.572	0.644	-12.6	
Dimethyl Phthalate		1.570	1.648	-5.0	
Acenaphthylene		1.905	2.146	-12.6	
2,6-Dinitrotoluene		0.453	0.501	-10.6	
3-Nitroaniline		0.466	0.478	-2.6	
Acenaphthene	*	1.191	1.292	-8.5	*
2,4-Dinitrophenol	#	0.239	0.152	36.4	#
4-Nitrophenol	#	0.217	0.235	-8.3	#

Samples
CGB62
CGB62MS
CGB62MSD

419 01

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CEIMIC CORP Contract: 68D90024

Lab Code: CEIMIC Case No.: 16472 SAS No.: _____ SDG No.: CBR60

Instrument ID: MS4 Calibration date: 06/10/91 Time: 1408

Lab File ID: DE829 Init. Calib. Date(s): 05/21/91 05/21/91

Min RRF50 for SPCC(#) = 0.050 Max %D for CCC(*) = 25.0%

COMPOUND	RRF	RRF50	%D
Dibenzofuran	1.797	2.021	-13.1
2,4-Dinitrotoluene	0.809	0.858	-8.0
Diethylphthalate	1.594	1.849	-16.0
4-Chlorophenyl-phenylether	0.596	0.659	-10.6
Fluorene	1.387	1.629	-17.4
4-Nitroaniline	0.504	0.521	-3.4
4,6-Dinitro-2-Methylphenol	0.183	0.151	17.5
N-Nitrosodiphenylamine (1) *	0.520	0.553	-6.3 *
4-Bromophenyl-phenylether	0.216	0.219	-1.4
Hexachlorobenzene	0.229	0.220	8.0
Pentachlorophenol *	0.154	0.158	-2.6 *
Phenanthrene	1.110	1.199	-8.0
Anthracene	1.125	1.184	-4.3
Di-n-Butylphthalate	1.781	1.909	-7.2
Fluoranthene *	1.261	1.420	-10.8 *
Pyrene	1.869	1.592	14.8
Butylbenzylphthalate	1.184	1.022	13.7
3,3'-Dichlorobenzidine	0.379	0.411	-8.4
Benzo(a)Anthracene	1.605	1.402	12.6
Chrysene	1.485	1.254	15.6
bis(2-Ethylhexyl)Phthalate	1.657	1.421	14.2
Di-n-Octyl Phthalate *	2.494	2.726	-9.3 *
Benzo(b)Fluoranthene	1.692	1.548	8.5
Benzo(k)Fluoranthene	0.832	1.240	-49.0
Benzo(a)Pyrene *	1.193	1.319	-10.6 *
Indeno(1,2,3-cd)Pyrene	1.045	1.248	-19.4
Dibenz(a,h)Anthracene	0.926	1.072	-14.6
Benzo(g,h,i)Perylene	0.894	1.219	-36.4
Nitrobenzene-d5	0.444	0.479	-7.9
2-Fluorobiphenyl	1.205	1.249	-3.7
Terphenyl-d14	1.028	0.952	7.4
Phenol-d5	2.109	2.220	-5.3
2-Fluorophenol	1.499	1.210	19.3
2,4,6-Tribromophenol	0.185	0.202	-9.2

(1) Cannot be separated from Diphenylamine

7B

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CEIMIC CORP Contract: 68D90024

Lab Code: CEIMIC Case No.: 16472 SAS No.: _____ SDG No.: DGB60

trument ID: MS4 Calibration date: 06/14/91 Time: 1005

Lab File ID: DS857 Init. Calib. Date(s): 05/21/91 05/21/91

Min RRF50 for SPCC(#) = 0.050 Max %D for CCC(*) = 25.0%

COMPOUND		RRF	RRF50	%D	
Phenol	*	1.973	2.285	-22.0	*
bis(2-Chloroethyl)Ether		1.673	1.912	-14.0	
2-Chlorophenol		1.506	1.655	-9.9	
1,3-Dichlorobenzene		1.587	1.719	-8.3	
1,4-Dichlorobenzene	*	1.513	1.716	-13.4	*
Benzyl Alcohol		0.908	0.965	-6.3	
1,2-Dichlorobenzene		1.399	1.612	-15.2	
2-Methylphenol		1.315	1.532	-16.5	
bis(2-Chloroisopropyl)Ether		2.526	2.816	-11.5	
4-Methylphenol		1.247	1.441	-15.6	
N-Nitroso-Di-n-Propylamine	#	1.226	1.284	-4.7	#
Hexachloroethane		0.652	0.708	-8.6	
Nitrobenzene		0.429	0.496	-15.9	
Isophorone		0.960	0.998	-4.0	
2-Nitrophenol	*	0.240	0.258	-7.5	*
2,4-Dimethylphenol		0.406	0.430	-5.9	
Benzoic Acid		0.134	0.203	(51.5)	
bis(2-Chloroethoxy)Methane		0.527	0.588	-9.5	
2,4-Dichlorophenol	*	0.304	0.337	-10.9	*
1,2,4-Trichlorobenzene		0.320	0.347	-8.4	
Naphthalene		0.966	1.109	-14.8	
4-Chloroaniline		0.448	0.483	-7.6	
Hexachlorobutadiene	*	0.161	0.194	-20.5	*
4-Chloro-3-Methylphenol	*	0.376	0.397	-5.6	*
2-Methylnaphthalene		0.659	0.721	-9.4	
Hexachlorocyclopentadiene	#	0.285	0.325	-17.5	#
2,4,6-Trichlorophenol	*	0.407	0.450	-10.6	*
2,4,5-Trichlorophenol		0.450	0.477	-6.0	
2-Chloronaphthalene		1.247	1.322	-6.0	
2-Nitroaniline		0.572	0.617	-7.9	
Dimethyl Phthalate		1.570	1.608	-2.4	
Acenaphthylene		1.905	2.135	-12.1	
2,6-Dinitrotoluene		0.453	0.452	0.2	
3-Nitroaniline		0.466	0.456	2.1	
Acenaphthene	*	1.191	1.325	-11.2	*
2,4-Dinitrophenol	#	0.239	0.241	-0.8	#
4-Nitrophenol	#	0.217	0.221	-1.8	#

SAMPLE SPIKE

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CEIMIC CORP Contract: 68D90024

Lab Code: CEIMIC Case No.: 16472 SAS No.: _____ SDG No.: CGB60

Instrument ID: MS4 Calibration date: 06/14/91 Time: 1005

Lab File ID: DSB57 Init. Calib. Date(s): 05/21/91 05/21/91

Min RRF50 for SPCC(#) = 0.050 Max %D for CCC(*) = 25.0%

COMPOUND	RRF	RRF50	%D	
Dibenzofuran	1.787	1.980	-10.8	
2,4-Dinitrotoluene	0.609	0.590	3.1	
Diethylphthalate	1.594	1.826	-15.2	
4-Chlorophenyl-phenylether	0.586	0.688	-15.4	
Fluorene	1.387	1.610	-16.1	
4-Nitroaniline	0.504	0.376	-25.4	
4,6-Dinitro-2-Methylphenol	0.183	0.209	-14.2	
N-Nitrosodiphenylamine (1)	* 0.520	0.606	-16.5	*
4-Bromophenyl-phenylether	0.216	0.242	-12.0	
Hexachlorobenzene	0.239	0.272	-12.8	
Pentachlorophenol	* 0.154	0.159	-3.2	*
Phenanthrene	1.110	1.155	-4.1	
Anthracene	1.135	1.249	-10.0	
Di-n-Butylphthalate	1.781	1.844	-3.5	
Fluoranthene	* 1.281	1.306	-2.0	*
Pyrene	1.969	1.605	14.1	
Butylbenzylphthalate	1.194	0.943	20.4	
3,3'-Dichlorobenzidine	0.379	0.335	11.6	
Benzo(a)Anthracene	1.505	1.357	15.4	
Chrysene	1.485	1.348	9.4	
bis(2-Ethylhexyl)Phthalate	1.657	1.316	20.5	
Di-n-Octyl Phthalate	* 2.494	2.658	-6.6	*
Benzo(b)Fluoranthene	1.692	1.378	18.6	
Benzo(k)Fluoranthene	0.832	1.319	-58.5	
Benzo(a)Pyrene	* 1.193	1.291	-8.2	*
Indeno(1,2,3-cd)Pyrene	1.045	1.155	-10.5	
Dibenz(a,h)Anthracene	0.936	1.152	-23.1	
Benzo(g,h,i)Perylene	0.894	1.167	-30.5	
Nitrobenzene-d5	0.444	0.489	-10.1	
2-Fluorobiphenyl	1.205	1.310	-8.7	
Terphenyl-d14	1.028	1.002	2.5	
Phenol-d5	2.109	2.480	-16.2	
2-Fluorophenol	1.499	1.608	-7.3	
2,4,6-Tribromophenol	0.185	0.215	-16.2	

(1) Cannot be separated from Diphenylamine.

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CEIMIC CORP Contract: 68D90024

Lab Code: CEIMIC Case No.: 16472 SAS No.: _____ SDG No.: CQ860

Instrument ID: MS1 Calibration Date(s): 06/17/91 06/18/91

Min $\overline{RRF}$ for SPCC(#) = 0.050 Max %RSD for CCC(*) = 30.

LAB FILE ID: RRF20 = A7864 RRF50 = A7863
RRF30 = A7865 RRF120= A7866 RRF160= A7867

COMPOUND	RRF20	RRF50	RRF80	RRF120	RRF160	$\overline{RRF}$	% RSD
Phenol *	1.847	1.720	1.703	1.616	1.583	1.694	6.
bis(2-Chloroethyl)Ether	1.556	1.436	1.367	1.205	1.146	1.342	12.5
2-Chlorophenol	1.376	1.324	1.242	1.155	1.107	1.241	9.
1,3-Dichlorobenzene	1.600	1.565	1.479	1.415	1.301	1.472	8.
1,4-Dichlorobenzene *	1.679	1.626	1.500	1.426	1.396	1.525	8.
Benzyl Alcohol	0.802	0.821	0.817	0.805	0.805	0.890	5.
1,2-Dichlorobenzene	1.534	1.561	1.503	1.375	1.335	1.474	7.
2-Methylphenol	1.322	1.285	1.227	1.083	1.029	1.189	10.
bis(2-Chloroisopropyl)Ether	2.847	2.965	2.918	2.744	2.669	2.829	4.
4-Methylphenol	1.426	1.316	1.178	1.182	1.241	1.269	8.
N-Nitroso-Di-n-Propylamine #	1.394	1.507	1.519	1.299	1.180	1.376	10.
Hexachloroethane	0.752	0.715	0.658	0.586	0.560	0.654	12.
Nitrobenzene	0.446	0.468	0.426	0.427	0.396	0.427	6.
Isophorone	0.941	0.972	0.938	0.947	0.890	0.938	3.
2-Nitrophenol *	0.241	0.250	0.250	0.252	0.255	0.250	2.
2,4-Dimethylphenol	0.306	0.350	0.357	0.365	0.372	0.350	7.
Benzoic Acid		0.204	0.223	0.268	0.272	0.242	13.
bis(2-Chloroethoxy)Methane	0.557	0.557	0.531	0.517	0.504	0.533	4.
2,4-Dichlorophenol *	0.355	0.366	0.345	0.326	0.319	0.342	5.
1,2,4-Trichlorobenzene	0.395	0.401	0.367	0.359	0.340	0.372	6.
Naphthalene	1.098	1.057	0.976	0.941	0.888	0.992	8.
4-Chloroaniline	0.449	0.439	0.410	0.402	0.384	0.417	6.
Hexachlorobutadiene *	0.244	0.244	0.233	0.227	0.217	0.233	5.
4-Chloro-3-Methylphenol *	0.402	0.422	0.411	0.396	0.394	0.405	2.
2-Methylnaphthalene	0.774	0.743	0.706	0.675	0.643	0.708	7.
Hexachlorocyclopentadiene #	0.161	0.216	0.282	0.237	0.228	0.225	19.
2,4,6-Trichlorophenol *	0.466	0.496	0.474	0.426	0.416	0.456	7.
2,4,5-Trichlorophenol		0.590	0.566	0.517	0.479	0.538	9.
2-Chloronaphthalene	1.409	1.335	1.340	1.095	1.087	1.253	12.
2-Nitroaniline		0.672	0.645	0.639	0.628	0.646	2.
Dimethyl Phthalate	1.771	1.840	1.817	1.694	1.690	1.762	3.
Acenaphthylene	2.263	2.150	2.081	1.833	1.753	2.016	10.
2,6-Dinitrotoluene	0.423	0.452	0.443	0.429	0.394	0.428	5.
3-Nitroaniline		0.505	0.498	0.504	0.458	0.491	4.
Acenaphthene *	1.429	1.366	1.331	1.174	1.116	1.283	10.
2,4-Dinitrophenol #		0.240	0.274	0.329	0.335	0.294	15.
4-Nitrophenol #		0.241	0.244	0.239	0.244	0.242	1.

8C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CEIMIC CORP Contract: 68D90024

Lab Code: CEIMIC Case No.: 16472 SAS No.: _____ SDG No.: OGB

Instrument ID: MS1 Calibration Date(s): 06/17/91 06/18/91

Min $\overline{RRF}$ for SPCC(#) = 0.050 Max %RSD for CCC(*) = 30.

LAB FILE ID: RRF20 = A7864 RRF50 = A7863
RRF80 = A7865 RRF120= A7866 RRF160= A7867

COMPOUND	RRF20	RRF50	RRF80	RRF120	RRF160	$\overline{RRF}$	% RSD
Dibenzofuran	2.154	2.089	1.971	1.826	1.762	1.960	8.
2,4-Dinitrotoluene	0.652	0.742	0.716	0.630	0.659	0.680	6.
Diethylphthalate	2.009	2.100	1.990	1.534	1.361	1.779	17.
4-Chlorophenyl-phenylether	0.858	0.901	0.827	0.743	0.724	0.811	9.
Fluorene	1.671	1.636	1.551	1.177	1.090	1.425	19.
4-Nitroaniline		0.612	0.614	0.585	0.562	0.593	4.
4,6-Dinitro-2-Methylphenol		0.199	0.195	0.200	0.201	0.196	2.
N-Nitrosodiphenylamine (1) *	0.543	0.558	0.521	0.458	0.423	0.501	11.
4-Bromophenyl-phenylether	0.240	0.251	0.224	0.177	0.162	0.211	18.
Hexachlorobenzene	0.307	0.324	0.312	0.301	0.299	0.311	4.
Pentachlorophenol *		0.185	0.191	0.194	0.190	0.192	1.
Phenanthrene	1.176	1.170	1.113	0.965	0.926	1.070	10.
Anthracene	1.165	1.192	1.111	0.965	0.920	1.071	11.
Di-n-Butylphthalate	1.843	1.877	1.705	1.528	1.564	1.703	.
Fluoranthene *	1.455	1.459	1.386	1.253	1.202	1.351	8.
Pyrene	1.373	1.417	1.388	1.404	1.450	1.406	2.
Butylbenzylphthalate	0.829	0.943	0.988	0.836	0.868	0.875	5.
3,3'-Dichlorobenzidine	0.385	0.382	0.421	0.383	0.374	0.389	4.
Benzo(a)Anthracene	1.189	1.417	1.427	1.483	1.568	1.413	8.
Chrysene	1.324	1.352	1.312	1.397	1.368	1.351	2.
bis(2-Ethylhexyl)Phthalate	1.245	1.362	1.381	1.274	1.453	1.363	5.
Di-n-Octyl Phthalate *	2.722	3.113	2.752	2.709	3.062	2.870	7.
Benzo(b)Fluoranthene	1.395	1.571	1.482	1.732	1.902	1.616	12.
Benzo(k)Fluoranthene	1.466	1.601	1.403	1.217	1.273	1.392	11.
Benzo(a)Pyrene *	1.206	1.317	1.242	1.233	1.293	1.256	3.
Indeno(1,2,3-cd)Pyrene	0.743	0.783	0.713	0.658	0.567	0.693	12.
Dibenz(a,h)Anthracene	0.901	0.872	0.774	0.736	0.649	0.766	10.
Benzo(g,h,i)Perylene	0.757	0.736	0.660	0.606	0.507	0.653	15.
Nitrobenzene-d5	0.432	0.448	0.434	0.441	0.422	0.435	2.
2-Fluorobiphenyl	1.270	1.310	1.185	1.081	1.052	1.180	9.
Terphenyl-d14	0.880	0.957	0.921	0.922	0.952	0.926	3.
Phenol-d5	1.947	1.962	1.958	1.872	1.845	1.917	2.
2-Fluorophenol	1.048	1.015	1.054	1.038	0.986	1.028	2.
2,4,6-Tribromophenol	0.300	0.382	0.371	0.373	0.388	0.357	9.

(1) Cannot be separated from Diphenylamine

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CEIMIC CORP Contract: 68D90024

Lab Code: CEIMIC Case No.: 16472 SAS No.: _____ SDG No.: CGB60

Instrument ID: MS1 Calibration date: 06/19/91 Time: 1431

Lab File ID: A7985 Init. Calib. Date(s): 06/17/91 06/18/91

Min RRF50 for SPCC(#) = 0.050 Max %D for CCC(*) = 25.0%

COMPOUND	RRF	RRF50	%D	
Phenol	1.694	1.916	-13.1	*
bis(2-Chloroethyl)Ether	1.342	1.579	-17.7	
2-Chlorophenol	1.241	1.420	-14.4	
1,3-Dichlorobenzene	1.472	1.650	-12.1	
1,4-Dichlorobenzene	1.525	1.717	-12.6	*
Benzyl Alcohol	0.890	0.948	-6.5	
1,2-Dichlorobenzene	1.474	1.643	-11.5	
2-Methylphenol	1.186	1.394	-17.2	
bis(2-Chloroisopropyl)Ether	2.629	2.066	-2.4	
4-Methylphenol	1.269	1.424	-12.2	
N-Nitroso-Di-n-Propylamine	1.276	1.566	-12.8	#
Hexachloroethane	0.654	0.744	-13.8	
Nitrobenzene	0.427	0.460	-5.3	
Isophorone	0.938	0.988	-5.3	
2-Nitrophenol	0.250	0.254	-1.6	*
2,4-Dimethylphenol	0.350	0.391	-11.7	
Benzoic Acid	0.242	0.206	14.9	
bis(2-Chloroethoxy)Methane	0.533	0.574	-7.7	
2,4-Dichlorophenol	0.342	0.357	-4.4	*
1,2,4-Trichlorobenzene	0.372	0.408	-9.7	
Naphthalene	0.992	1.088	-9.7	
4-Chloroaniline	0.417	0.498	-19.4	
Hexachlorobutadiene	0.233	0.257	-10.3	*
4-Chloro-3-Methylphenol	0.405	0.434	-7.2	*
2-Methylnaphthalene	0.708	0.769	-8.6	
Hexachlorocyclopentadiene	0.225	0.395	-75.6	#
2,4,6-Trichlorophenol	0.456	0.512	-12.3	*
2,4,5-Trichlorophenol	0.538	0.569	-5.8	
2-Chloronaphthalene	1.253	1.415	-12.9	
2-Nitroaniline	0.646	0.655	-1.4	
Dimethyl Phthalate	1.762	1.882	-6.8	
Acenaphthylene	2.016	2.256	-11.9	
2,6-Dinitrotoluene	0.428	0.440	-2.8	
3-Nitroaniline	0.491	0.526	-7.1	
Acenaphthene	1.283	1.416	-10.4	*
2,4-Dinitrophenol	0.294	0.168	42.9	#
4-Nitrophenol	0.242	0.248	-2.5	#

Samples
SRIK03
CGR61
CGR60

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CEIMIC CORP Contract: 68D90024

Lab Code: CEIMIC Case No.: 16472 SAS No.: _____ SDG No.: CG860

Instrument ID: MS1 Calibration da : 06/19/91 Time: 1431

Lab File ID: AT83S Init. Calib. Da e(s): 06/17/91 06/18/91

Min RRF50 for SPCC(#) = 0.050 Max %D for CCC(*) = 25.0%

COMPOUND	RRF	RRF50	%D	
Dibenzofuran	1.960	2.136	-9.0	
2,4-Dinitrotoluene	0.680	0.736	-8.2	
Diethylphthalate	1.779	2.070	-16.4	
4-Chlorophenyl-phenylether	0.811	0.930	-14.7	
Fluorene	1.425	1.666	-16.9	
4-Nitroaniline	0.583	0.581	0.3	
4,6-Dinitro-2-Methylphenol	0.196	0.169	13.8	
N-Nitrosodiphenylamine (1)	0.501	0.566	-13.0	*
4-Bromophenyl-phenylether	0.211	0.264	-25.1	
Hexachlorobenzene	0.311	0.367	-18.0	
Pentachlorophenol	0.192	0.198	-3.1	*
Phenanthrene	1.070	1.211	-13.2	
Anthracene	1.071	1.195	-11.6	
Di-n-Butylphthalate	1.703	1.907	-12.0	
Fluoranthene	1.351	1.511	-11.8	*
Pyrene	1.406	1.413	-0.5	
Butylbenzylphthalate	0.875	0.854	2.4	
3,3'-Dichlorobenzidine	0.389	0.474	-21.8	
Benzo(a)Anthracene	1.413	1.332	5.3	
Chrysene	1.351	1.345	0.4	
bis(2-Ethylhexyl)Phthalate	1.363	1.274	6.5	
Di-n-Octyl Phthalate	2.870	2.724	5.1	*
Benzo(b)Fluoranthene	1.616	1.431	11.4	
Benzo(k)Fluoranthene	1.392	1.411	-1.4	
Benzo(a)Pyrene	1.256	1.334	-6.2	*
Indeno(1,2,3-cd)Pyrene	0.693	0.924	-33.3	
Dibenz(a,h)Anthracene	0.766	0.969	-26.5	
Benzo(g,h,i)Perylene	0.653	0.924	-41.5	
Nitrobenzene-d5	0.435	0.442	-1.6	
2-Fluorobiphenyl	1.180	1.299	-10.1	
Terphenyl-d14	0.926	0.896	3.2	
Phenol-d5	1.917	2.151	-12.2	
2-Fluorophenol	1.028	1.244	-21.0	
2,4,6-Tribromophenol	0.357	0.417	-16.8	

(1) Cannot be separated from Diphenylamine

7B

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CEIMIC CORP Contract: 68D90024

Code: CEIMIC Case No.: 16472 SAS No.: _____ SDG No.: CGB62

Instrument ID: MS1 Calibration date: 06/24/91 Time: 1321

Lab File ID: A7960 Init. Calib. Date(s): 06/17/91 06/18/91

Min RRF50 for SPCC(#) = 0.050 Max %D for CCC(*) = 25.0%

COMPOUND	RRF	RRF50	%D	
Phenol	1.684	1.887	-11.4	*
bis(2-Chloroethyl)Ether	1.342	1.542	-14.9	
2-Chlorophenol	1.241	1.365	-10.0	
1,3-Dichlorobenzene	1.472	1.636	-11.1	
1,4-Dichlorobenzene	1.525	1.590	-4.3	*
Benzyl Alcohol	0.890	0.907	-1.9	
1,2-Dichlorobenzene	1.474	1.612	-9.4	
2-Methylphenol	1.189	1.335	-12.3	
bis(2-Chloroisopropyl)Ether	2.829	2.910	-2.9	
4-Methylphenol	1.269	1.378	-8.6	
N-Nitroso-Di-n-Propylamine	1.376	1.411	-2.5	#
Hexachloroethane	0.654	0.704	-7.6	
Nitrobenzene	0.427	0.462	-8.4	
Isophorone	0.936	1.004	-7.0	
2-Nitrophenol	0.250	0.255	-2.0	*
2,4-Dimethylphenol	0.350	0.366	-4.6	
Benzoic Acid	0.242	0.224	7.4	
bis(2-Chloroethoxy)Methane	0.533	0.537	-0.8	
2,4-Dichlorophenol	0.342	0.361	-5.6	*
1,2,4-Trichlorobenzene	0.372	0.392	-5.4	
Naphthalene	0.992	1.054	-6.2	
4-Chloroaniline	0.417	0.497	-19.2	
Hexachlorobutadiene	0.233	0.222	4.7	*
4-Chloro-3-Methylphenol	0.405	0.407	-0.5	*
2-Methylnaphthalene	0.708	0.723	-2.1	
Hexachlorocyclopentadiene	0.225	0.331	-47.1	#
2,4,6-Trichlorophenol	0.456	0.482	-5.9	*
2,4,5-Trichlorophenol	0.538	0.555	-3.2	
2-Chloronaphthalene	1.253	1.343	-7.2	
2-Nitroaniline	0.646	0.627	2.9	
Dimethyl Phthalate	1.762	1.830	-3.9	
Acenaphthylene	2.016	2.183	-8.3	
2,6-Dinitrotoluene	0.428	0.444	-3.7	
3-Nitroaniline	0.491	0.532	-8.4	
Acenaphthene	1.283	1.364	-6.3	*
2,4-Dinitrophenol	0.294	0.163	44.6	#
4-Nitrophenol	0.242	0.231	4.5	#

Samples: CGB62

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CEIMIC CORP Contract: 68D90024

Lab Code: CEIMIC Case No.: 16472 SAS No.: _____ SDG No.: CGB60

Instrument ID: MS1 Calibration date: 06/24/91 Time: 1331

Lab File ID: A7960 Init. Calib. Date(s): 06/17/91 06/18/91

Min RRFSO for SPCC(#) = 0.050 Max %D for CCC(*) = 25.0%

COMPOUND	RRF	RRFSO	%D	
Dibenzofuran	1.960	2.029	-3.5	
2,4-Dinitrotoluene	0.680	0.698	-2.6	
Diethylphthalate	1.779	1.953	-9.8	
4-Chlorophenyl-phenylether	0.811	0.830	-2.3	
Fluorene	1.425	1.570	-10.2	
4-Nitroaniline	0.593	0.613	-3.4	
4,6-Dinitro-2-Methylphenol	0.196	0.162	16.8	
N-Nitrosodiphenylamine (1) *	0.501	0.571	-14.0	*
4-Bromophenyl-phenylether	0.211	0.233	-10.4	
Hexachlorobenzene	0.311	0.301	3.2	
Pentachlorophenol *	0.192	0.196	-2.1	*
Phenanthrene	1.070	1.185	-10.9	
Anthracene	1.071	1.193	-11.4	
Di-n-Butylphthalate	1.703	1.936	-13.8	
Fluoranthene *	1.251	1.511	-11.9	*
Pyrene	1.406	1.478	-5.1	
Butylbenzylphthalate	0.975	0.958	-9.5	
3,3'-Dichlorobenzidine	0.389	0.455	-17.0	
Benzo(a)Anthracene	1.413	1.406	0.5	
Chrysene	1.351	1.405	-4.0	
bis(2-Ethylhexyl)Phthalate	1.363	1.469	-7.8	
Di-n-Octyl Phthalate *	2.870	3.081	-7.4	*
Benzo(b)Fluoranthene	1.616	1.460	9.7	
Benzo(k)Fluoranthene	1.392	1.450	-4.2	
Benzo(a)Pyrene *	1.256	1.261	-0.4	*
Indeno(1,2,3-cd)Pyrene	0.693	0.884	27.6	
Dibenz(a,h)Anthracene	0.766	0.910	-18.8	
Benzo(g,h,i)Perylene	0.653	0.863	-32.2	
Nitrobenzene-d5	0.435	0.455	-4.6	
2-Fluorobiphenyl	1.190	1.228	-4.1	
Terphenyl-d14	0.926	0.912	1.5	
Phenol-d5	1.917	2.111	-10.1	
2-Fluorophenol	1.026	1.197	-16.4	
2,4,6-Tribromophenol	0.357	0.309	13.4	

(1) Cannot be separated from Diphenylamine

2F

SOIL PESTICIDE SURROGATE RECOVERY

Lab Name: CEIMIC CORP Contract: 68D90024

Lab Code: CEIMIC Case No.: 16472 SAS No.: _____ SDG No.: CGB60

Level:(low/med) LOW

	EPA SAMPLE NO.	S1 (DBC)#	OTHER
01	CGB60	96	0
02	CGBe1	590 *	0
03	CGB61DL	0 D	0
04	CGBe2	192 *	0
05	CGBe3	202 *	0
06	CGB61MS	540 *	0
07	CGB61MSD	e15 *	0
08	CGB61MSDDL	0 D	0
09	CGB61MSDL	0 D	0
10	PBLK01	72	0

ADVISORY QC LIMITS

S1 (DBC) = Dibutylchlorendate (24-150)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: CEIMIC CORP Contract: 68D90024

Lab Code: CEIMIC Case No.: 18472 SAS No.: _____ SDG No.: 0[illegible]

Matrix Spike - EPA Sample No.: 03262 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIM RE
Phenol	13500	0	13000	96 *	26-
2-Chlorophenol	13500	0	13000	96	25-
1,4-Dichlorobenzene	6750	0	6870	102	28
N-Nitroso-di-n-prop.(1)	6750	0	6980	103	41
1,2,4-Trichlorobenzene	6750	0	7190	106	38
4-Chloro-3-methylphenol	13500	0	12000	89	26
Acenaphthene	6750	0	5680	84	31-
4-Nitrophenol	13500	0	12500	93	11-
2,4-Dinitrotoluene	6750	0	5570	82	28-
Pentachlorophenol	13500	0	5570	41	17-
Pyrene	6750	2440	10300	116	35-

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC L RPD	T RE
Phenol	13500	11700	87	10	35	26-
2-Chlorophenol	13500	11100	82	16	50	25-
1,4-Dichlorobenzene	6750	6360	94	8	27	28
N-Nitroso-di-n-prop.(1)	6750	6370	95	9	38	41
1,2,4-Trichlorobenzene	6750	6750	100	6	23	38
4-Chloro-3-methylphenol	13500	10900	81	9	33	26
Acenaphthene	6750	5250	78	7	19	31-
4-Nitrophenol	13500	11800	87	7	50	11-
2,4-Dinitrotoluene	6750	5200	77	6	47	28-
Pentachlorophenol	13500	4210	31	28	47	17-
Pyrene	6750	9180	100	15	36	35-

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 11 outside limits
Spike Recovery: 1 out of 22 outside limits

COMMENTS:

250

3F

SOIL PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: CERTIC CORP Contract: 68D90024

Lab Code: CERTIC Case No.: 16472 SAS No.: _____ SDG No.: CGB60

Matrix Spike - EPA Sample No.: CGB61 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC.
gamma-BHC (Lindane)	27.5	0	20.5	75	46-127
Heptachlor	27.5	0	26.1	95	35-130
Aldrin	27.5	0	7.87	29 *	34-132
Dieldrin	68.8	0	9.86	14 *	31-134
Endrin	68.8	0	33.6	49	42-139
4,4'-DDT	68.8	0	198	288 *	23-134

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
gamma-BHC (Lindane)	27.5	25.5	104	-33	50	46-127
Heptachlor	27.5	32.2	117	-21	31	35-130
Aldrin	27.5	18.1	66	-79 *	43	34-132
Dieldrin	68.8	40.9	59	-124 *	38	31-134
Endrin	68.8	66.7	97	-66 *	45	42-139
4,4'-DDT	68.8	233	339 *	-16	50	23-134

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 3 out of 4 outside limits
Spike Recovery: 4 out of 12 outside limits

COMMENTS:

3F

SOIL PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: CEIMIC CORP Contract: 68D90024

Lab Code: CEIMIC Case No.: 1a472 SAS No.: _____ SDG No.: CG860

Matrix Spike - EPA Sample No.: CG861ML Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC.
gamma-BHC (Lindane)	27.5	0	0	0 *	46-127
Heptachlor	27.5	0	0	0 *	35-130
Aldrin	27.5	0	0	0 *	34-132
Dieldrin	68.6	0	0	0 *	31-134
Endrin	68.6	0	0	0 *	42-139
4,4'-DDT	68.6	0	0	0 *	23-134

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
gamma-BHC (Lindane)	27.4	0	0 *	0	50	46-127
Heptachlor	27.4	0	0 *	0	31	35-130
Aldrin	27.4	0	0 *	0	43	34-132
Dieldrin	68.6	0	0 *	0	38	31-134
Endrin	68.6	0	0 *	0	45	42-139
4,4'-DDT	68.6	0	0 *	0	50	23-134

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 6 outside limits
Spike Recovery: 12 out of 12 outside limits

COMMENTS:

SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CEIMIC CORP Contract: 68D90024

Lab Code: CEIMIC Case No.: 18472 SAS No.: _____ SDG No.: CGB60

Lab File ID: A7884 DFTPP Injection Date: 06/19/91

Instrument ID: MS1 DFTPP Injection Time: 1314 14:01 CDC

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	56.4
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	65.0
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	40.1
197	Less than 1.0% of mass 198	0.0
198	Base peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.5
275	10.0 - 30.0% of mass 198	17.2
365	Greater than 1.00% of mass 198	1.56
441	Present, but less than mass 443	7.3
442	Greater than 40.0% of mass 198	49.3
443	17.0 - 23.0% of mass 442	9.3 (18.8)2

1-Value is % mass 69 2-Value is % mass 442

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD050	SSTD0619	A7885	06/19/91	1431
02	SBLK03	S0524-31	A7886	06/19/91	1539
03	CGB61	910261-02	A7890	06/19/91	1935
04	CGB60	910261-01	A7891	06/19/91	2032

*RU,TUNER,*DFTPP

GC/MS PERFORMANCE STANDARD

Decafluorotriphenylphospine (DFTPP)

m/z	Ion Abundance Criteria	% Relative Abundance Base Peak	% Relative Abundance Appropriate Peak	Status
51	30-60% of mass 198	56.44	56.44	Ok
68	Less than 2% of mass 69	0.00	0.00	Ok
69	(reference only)	64.95	64.95	Ok
70	Less than 2% of mass 69	0.00	0.00	Ok
127	40-60% of mass 198	40.13	40.13	Ok
197	Less than 1% of mass 198	0.00	0.00	Ok
198	Base peak, 100% relative abundance	100.00	100.00	Ok
199	5-9% of mass 198	6.53	6.53	Ok
275	10-30% of mass 198	17.22	17.22	Ok
365	Greater than 1% of mass 198	1.56	1.56	Ok
441	0-100% of mass 443	7.30	78.69	Ok
442	Greater than 40% of mass 198	49.34	49.34	Ok
443	17-23% of mass 442	9.27	18.80	Ok

Injection Date: 06/19/91
Injection Time: 14:01
Data File: >A7884
Scan: 320

ID=MS1
Case # 16472

8A

VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: CEIMIC CORP Contract: 68D90024

Lab Code: CEIMIC Case No.: 16472 SAS No.: _____ SDG No.: CGB60

Lab File ID (Standard): E4023 Date Analyzed: 06/01/91

Instrument ID: MSS Time Analyzed: 0957

Matrix:(soil/water) SOIL Level:(low/med) LOW Column:(pack/cap) PACK

	IS1(BCM) AREA	#	RT	IS2(DFB) AREA	#	RT	IS3(CBZ) AREA	#	RT
12 HOUR STD	32900		9.09	117000		19.30	102000		24.05
UPPER LIMIT	65800			234000			204000		
LOWER LIMIT	16450			58500			51000		
EPA SAMPLE NO.									
01 CGB62	19200		9.07	62700		19.28	50600	*	24.04
02 CGB63MS	25100		9.07	90600		19.34	72600		24.04
03 VBLK04	31200		9.09	114000		19.27	97500		24.07

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene

UPPER LIMIT = + 100% of internal standard area.
LOWER LIMIT = - 50% of internal standard area.

Column used to flag internal standard area values with an asterisk

PESTICIDE/PCB STANDARDS SUMMARY

Lab Name: OEINIC CORP Contract: 68D90024

Lab Code: OEINIC Case No.: 14472 SAS No.: _____ SDG No.: CGR60

Instrument ID: GC1 GC Column ID: DB-1701

DATE(S) OF ANALYSIS	FROM: 06/22/91	DATE OF ANALYSIS	06/25/91
	TO: 06/22/91	TIME OF ANALYSIS	1318
TIME(S) OF ANALYSIS	FROM: 1324	EPA SAMPLE NO.	
	TO: 2302	(STANDARD)	IND4

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR	RT	CALIBRATION FACTOR	GNT Y/N	%D
alpha-BHC	11.04	10.92	11.16	16500000				
beta-BHC	13.69	13.57	13.81	7720000				
delta-BHC	14.46	14.32	14.60	11600000				
gamma-BHC	11.04	10.89	11.19	16500000	10.98	21600000	Y	(-30.9)
Heptachlor	11.78	11.67	11.89	15700000	11.73	20800000	Y	(-32.5)
Aldrin	12.39	12.24	12.54	14200000	12.35	20900000	Y	(-47.0)
Hept. epoxide	13.11	12.96	13.26	14400000	13.07	13400000	Y	(-6.9)
Endosulfan I	14.03	13.88	14.18	13200000	13.98	14100000	Y	(-27.8)
Dieldrin	17.25	17.10	17.40	13500000	17.22	17000000	Y	(-25.9)
4,4'-DDE	16.87	16.72	17.01	7400000				
Endrin	17.96	17.82	18.10	9070000				
Endosulfan II	19.58	19.42	19.72	10600000	19.54	13600000	Y	(-30.7)
4,4'-DDD	19.50	19.38	19.62	4910000				
Endo. sulfate	22.01	21.89	22.12	7980000				
4,4'-DDT	20.06	19.91	20.21	6520000	20.02	6060000	Y	7.1
Methoxychlor	22.24	22.10	22.38	4120000	22.20	4870000	Y	(-18.2)
Endrin ketone	23.25	23.11	23.39	10600000				
a. Chlordane	16.50	16.36	16.64	12600000				
g. Chlordane	16.22	16.10	16.34	12900000				
Toxaphene	20.50	20.36	20.64	292000				
Aroclor-1016	11.52	11.41	11.63	500000				
Aroclor-1221	6.56	6.47	6.65	221000				
Aroclor-1232	11.54	11.43	11.65	343000				
Aroclor-1242	11.53	11.41	11.65	479000				
Aroclor-1248	13.95	13.83	14.07	1040000				
Aroclor-1254	18.05	17.94	18.16	1540000				
Aroclor-1260	19.68	19.59	19.77	600000				

Under GNT Y/N: enter Y if quantitation was performed, N if not performed. %D must be less than or equal to 15.0% for quantitation, and less than or equal to 20.0% for confirmation.

Note: Determining that no compounds were found above the CRDL is a form of quantitation, and therefore at least one column must meet the 15.0% criteria.

For multicomponent analytes, the single largest peak that is characteristic of the component should be used to establish retention time and %D. Identification of such analytes is based primarily on pattern r[illegible]

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PESTICIDE/PCB STANDARDS SUMMARY

Lab Name: CETNIC CORP Contract: 68D90024

Lab Code: CETNIC Case No.: 14472 SAS No.: _____ SDG No.: CCB60

Instrument ID: GC4 GC Column ID: DB-1701

DATE(S) OF ANALYSIS FROM: 04/22/91 TO: 04/22/91		DATE OF ANALYSIS 04/25/91	
TIME(S) OF ANALYSIS FROM: 1234 TO: 2202		TIME OF ANALYSIS 1459	
		EPA SAMPLE NO. (STANDARD)	INDB

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR	RT	CALIBRATION FACTOR	QNT Y/N	%D
alpha-BHC	11.04	10.92	11.16	16500000	9.62	21600000	Y	-30.9
beta-BHC	13.69	13.57	13.81	7720000	13.68	11100000	Y	-43.8
delta-BHC	14.46	14.32	14.60	11900000	14.43	17100000	Y	-44.9
gamma-BHC	11.04	10.89	11.19	16500000				
Heptachlor	11.75	11.63	11.87	17700000				
Aldrin	12.69	12.54	12.84	12200000	12.69	12900000	Y	-16.7
Heot. epoxide	13.11	14.94	15.26	24400000				
Endosulfan I	14.91	15.85	16.17	12200000				
Dieldrin	17.26	17.04	17.46	12600000				
4,4'-DDE	16.87	16.72	17.01	7300000	16.85	12400000	Y	-69.6
Endrin	17.96	17.82	18.10	9070000	17.95	12900000	Y	-42.2
Endosulfan II	19.56	19.42	19.70	10600000				
4,4'-DDD	19.50	19.36	19.62	4910000	19.48	8450000	Y	-72.1
Endo. sulfate	22.01	21.89	22.13	7980000	21.99	11400000	Y	-42.9
4,4'-DDT	20.06	19.91	20.21	6520000				
Methoxychlor	22.24	22.10	22.38	4120000				
Endrin ketone	23.25	23.11	23.39	10500000	23.23	15300000	Y	-44.3
a. Chlordane	16.50	16.36	16.62	12500000	16.49	17100000	Y	-36.9
g. Chlordane	16.22	16.10	16.34	12900000	16.22	17300000	Y	-34.1
Toxaphene	20.50	20.39	20.61	292000				
Aroclor-1016	11.52	11.41	11.63	500000				
Aroclor-1221	8.56	8.47	8.65	221000				
Aroclor-1232	11.54	11.42	11.65	343000				
Aroclor-1242	11.53	11.41	11.65	479000				
Aroclor-1248	13.95	13.83	14.07	1040000				
Aroclor-1254	18.06	17.94	18.18	1540000				
Aroclor-1260	19.68	19.56	19.77	600000				

Under QNT Y/N: enter Y if quantitation was performed, N if not performed.
%D must be less than or equal to 15.0% for quantitation, and less than or equal to 20.0% for confirmation.

Note: Determining that no compounds were found above the CRDL is a form of quantitation, and therefore at least one column must meet the 15.0% criteria.

For multicomponent analytes, the single largest peak that is characteristic of the component should be used to establish retention time and %D. Identification of such analytes is based primarily on pattern recognition.

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FORM IX PEST 8/87 Rev.

PESTICIDE/PCB STANDARDS SUMMARY

Lab Name: CERTEC CORP Contract: 68D90124

Lab Code: CERTEC Case No.: 14472 SAS No.: _____ SDG No.: C5840

Instrument ID: GC5 GC Column ID: DB-5

	DATE(S) OF ANALYSIS	FROM: 06/23/91 TO: 06/26/91		DATE OF ANALYSIS	06/25/91			
	TIME(S) OF ANALYSIS	FROM: 1259 TO: 1905		TIME OF ANALYSIS	2048			
				EPA SAMPLE NO. (STANDARD)	INDB			

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR	RT	CALIBRATION FACTOR	QNT Y/N	%D
alpha-BHC	11.70	11.65	11.75	417000	11.50	342000	Y	18.0
beta-BHC	12.60	12.52	12.67	204000	12.47	164000	Y	19.6
delta-BHC	13.68	13.61	13.75	307000	13.50	271000	Y	11.7
gamma-BHC	11.70	11.62	11.78	417000				
Heptachlor	15.62	15.54	15.70	451000				
Aldrin	16.92	16.84	17.00	293000	16.72	285000	Y	2.7
Hept. epoxide	18.35	18.27	18.43	336000				
Endosulfan I	19.62	19.54	19.70	275000				
Dieldrin	20.61	20.52	20.69	357000				
4,4'-DDE	20.44	20.35	20.53	181000	20.27	176000	Y	1.7
Endrin	21.40	21.32	21.48	208000	21.72	231000	Y	-11.1
Endosulfan II	21.62	21.54	21.70	329000				
4,4'-DDD	21.91	21.83	21.99	123000	21.72	136000	Y	-10
Endo. sulfate	23.18	23.10	23.26	202000	22.99	152000	Y	24
4,4'-DDT	23.26	23.19	23.33	299000				
Methoxychlor	25.20	25.12	25.28	142000				
Endrin ketone	24.84	24.77	24.91	289000	24.64	215000	Y	25.7
a. Chlordane	19.76	19.68	19.84	298000	19.58	218000	Y	26.8
g. Chlordane	19.20	19.12	19.28	300000	18.98	223000	Y	25.7
Toxaphene	22.12	22.03	22.21	5800				
Aroclor-1016	14.96	14.87	15.05	17500				
Aroclor-1221	11.65	11.57	11.73	9790				
Aroclor-1232	14.97	14.90	15.04	11700				
Aroclor-1242	14.96	14.89	15.03	18500				
Aroclor-1248	18.58	18.51	18.65	35600				
Aroclor-1254	20.73	20.65	20.81	54000				
Aroclor-1260	25.78	25.69	25.87	19200				

Under QNT Y/N: enter Y if quantitation was performed, N if not performed. %D must be less than or equal to 15.0% for quantitiation, and less than or equal to 20.0% for confirmation.

Note: Determining that no compounds were found above the CRDL is a form of quantitation, and therefore at least one column must meet the 15.0% criteria.

For multicomponent analytes, the single largest peak that is characteristic of the component should be used to establish retention time and %D. Identification of such analytes is based primarily on pattern recognit

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PESTICIDE/PCB STANDARDS SUMMARY

Lab Name: CETNIC CORP Contract: 68D90024

b Code: CETNIC Case No.: 1e472 SAS No.: _____ SDG No.: CORe0

Instrument ID: GC9 GC Column ID: DB-5

DATE(S) OF ANALYSIS	FROM: 06/26/91				DATE OF ANALYSIS	06/28/91			
	TO: 06/28/91				TIME OF ANALYSIS	0131			
TIME(S) OF ANALYSIS	FROM: 1206				EPA SAMPLE NO. (STANDARD)	INDA			
	TO: 1805								

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR	RT	CALIBRATION FACTOR	QNT Y/N	%D
alpha-BHC	11.70	11.65	11.75	417000				
beta-BHC	12.60	12.52	12.67	204000				
delta-BHC	13.68	13.61	13.75	307000				
gamma-BHC	11.70	11.62	11.78	417000	12.72	465000	Y	-11.5
Heptachlor	15.62	15.54	15.70	351000	15.46	384000	Y	14.9
Aldrin	16.92	16.84	17.00	343000	16.74	351000	Y	10.7
Hept. epoxide	18.35	18.27	18.43	278000	18.18	327000	Y	17.5
Endosulfan I	19.46	19.38	19.54	225000	19.32	290000	Y	17.4
Dieldrin	20.21	20.53	20.69	327000	20.45	302300	Y	10.4
4,4'-DDE	20.44	20.36	20.52	121000				
Endrin	21.40	21.32	21.48	208000				
Endosulfan II	21.68	21.60	21.76	229000	21.52	257000	Y	11.1
4,4'-DDD	21.91	21.83	21.99	123000				
Endo. sulfate	23.18	23.10	23.26	202000				
4,4'-DDT	23.26	23.19	23.33	249000	23.09	212000	Y	14.9
Methoxychlor	25.20	25.12	25.28	142000	25.05	121000	Y	14.8
Endrin ketone	24.84	24.77	24.91	229000				
a. Chlordane	19.76	19.68	19.84	278000				
g. Chlordane	19.20	19.12	19.28	300000				
Toxaphene	22.12	22.03	22.21	5300				
Aroclor-1016	14.96	14.87	15.05	17500				
Aroclor-1221	11.65	11.57	11.73	9790				
Aroclor-1232	14.97	14.90	15.04	11700				
Aroclor-1242	14.96	14.89	15.03	18500				
Aroclor-1248	18.58	18.51	18.65	35600				
Aroclor-1254	20.73	20.65	20.81	54000				
Aroclor-1260	25.78	25.69	25.87	19200				

Under QNT Y/N: enter Y if quantitation was performed, N if not performed.
%D must be less than or equal to 15.0% for quantitation, and less than or equal to 20.0% for confirmation.

Note: Determining that no compounds were found above the CRDL is a form of quantitation, and therefore at least one column must meet the 15.0% criteria.

For multicomponent analytes, the single largest peak that is characteristic of the component should be used to establish retention time and %D.
entification of such analytes is based primarily on pattern recognition.

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PESTICIDE/PCB STANDARDS SUMMARY

Lab Name: CETNIC CORP Contract: 68D90024

Lab Code: CETNIC Case No.: 15870 SAS No.: _____ SDG No.: CGR60

Instrument ID: GC2 GC Column ID: DB-5

DATE(S) OF ANALYSIS	FROM: 06/26/91	DATE OF ANALYSIS	06/26/91
	TO: 06/26/91	TIME OF ANALYSIS	0209
TIME(S) OF ANALYSIS	FROM: 1209	EPA SAMPLE NO. (STANDARD)	INDB
	TO: 1805		

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR	RT	CALIBRATION FACTOR	GNT Y/N	%D
alpha-BHC	11.70	11.65	11.78	417000	11.56	372000	Y	10.8
beta-BHC	12.60	12.53	12.67	204000	12.48	181000	Y	11.3
delta-BHC	12.66	12.61	12.75	307000	13.56	287000	Y	6.5
gamma-BHC	11.70	11.62	11.78	417000				
Heptachlor	13.62	13.54	13.70	451000				
Aldrin	14.92	14.84	17.00	290000	16.76	2e0000	Y	32.7
Heat. epoxide	15.35	15.27	15.42	378000				
Endosulfan I	15.68	15.6	15.76	335000				
Dieldrin	20.81	20.73	2..88	337000				
4,4'-DDE	20.44	20.35	20.52	181000	20.36	182000	Y	-0.5
Endrin	21.40	21.32	21.48	208000	21.35	200000	Y	3.8
Endosulfan II	21.66	21.57	21.76	389000				
4,4'-DDD	21.91	21.83	21.99	125000	21.77	142000	Y	-15
Endo. sulfate	22.18	22.10	22.26	202000	23.04	15e000	Y	22.
4,4'-DDT	23.26	23.19	23.32	249000				
Methoxychlor	25.20	25.12	25.28	142000				
Endrin ketone	24.84	24.77	24.91	289000	24.72	223000	Y	22.8
a. Chlordane	19.76	19.68	19.84	278000	19.41	227000	Y	22.9
g. Chlordane	19.20	19.12	19.28	300000	19.05	232000	Y	22.7
Toxaphene	22.12	22.03	22.21	5800				
Aroclor-1016	14.96	14.87	15.05	17500				
Aroclor-1221	11.65	11.57	11.73	9790				
Aroclor-1232	14.97	14.90	15.04	11700				
Aroclor-1242	14.96	14.89	15.03	18900				
Aroclor-1248	18.58	18.51	18.65	35600				
Aroclor-1254	20.73	20.65	20.81	54000				
Aroclor-1260	25.78	25.69	25.87	19200				

Under GNT Y/N: enter Y if quantitation was performed, N if not performed. %D must be less than or equal to 15.0% for quantitation, and less than or equal to 20.0% for confirmation.

Note: Determining that no compounds were found above the CRDL is a form of quantitation, and therefore at least one column must meet the 15.0% criteria.

For multicomponent analytes, the single largest peak that is characteristic of the component should be used to establish retention time and %D. Identification of such analytes is based primarily on pattern recognition.

FORM IX PEST 8/559rev.

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO: OGB63MS

Lab Name: CEIMIC CORP Contract: 68D90024

Lab Code: CEIMIC Case No.: 16472 SAS No.: _____ SDG No.: OGB60

Matrix: (soil/water) SOIL Lab Sample ID: 910261-04MS

Sample wt/vol: 5.0 (g/mL) G Lab File ID: E4036

Level: (low/med) LOW Date Received: 05/23/91

% Moisture: not dec. 22 Date Analyzed: 06/01/91

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

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

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	21	U
74-83-9	Bromomethane	21	U
75-01-4	Vinyl Chloride	21	U
75-00-3	Chloroethane	21	U
75-09-2	Methylene Chloride	8	BJ
67-64-1	Acetone	21	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	21	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
108-05-4	Vinyl Acetate	21	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	Trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	21	U
591-78-6	2-Hexanone	21	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Total Xylenes	10	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO: CGB63MSD

Lab Name: CSIMIC CORP Contract: 68D90024

Lab Code: CSIMIC Case No.: 16472 SAS No.: _____ SDG No.: CGB60

Matrix: (soil/water) SOIL Lab Sample ID: 910261-04MSD

Sample wt/vol: 5.0 (g/mL) G Lab File ID: E4040

Level: (low/med) LOW Date Received: 05/23/91

% Moisture: not dec. 52 Date Analyzed: 06/04/91

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	21	U
74-83-9	Bromomethane	21	U
75-01-4	Vinyl Chloride	21	U
75-00-3	Chloroethane	21	U
75-09-2	Methylene Chloride	30	
67-64-1	Acetone	21	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	21	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
108-05-4	Vinyl Acetate	21	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	21	U
591-78-6	2-Hexanone	21	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Total Xylenes	10	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CGB63MS

Lab Name: CHEMIC CORP Contract: 68D90024

Lab Code: CHEMIC Case No.: 16472 SAS No.: _____ SDG No.: CGB60

Matrix: (soil/water) SOIL Lab Sample ID: 910261-04MS

Sample wt/vol: 30.2 (g/mL) G Lab File ID: 05838

Level: (low/med) LOW Date Received: 05/23/91

% Moisture: not dec. 51 dec. ____ Date Extracted: 05/24/91

Extraction: (SepF/Cont/Sand) SONC Date Analyzed: 06/11/91

GPC Cleanup: (Y/N) N pH: 7.6 Dilution Factor: 8.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	5400	U
111-44-4	bis(2-Chloroethyl)Ether	5400	U
95-57-8	2-Chlorophenol	5400	U
541-73-1	1,3-Dichlorobenzene	5400	U
106-46-7	1,4-Dichlorobenzene	5400	U
100-51-6	Benzyl Alcohol	5400	U
95-50-1	1,2-Dichlorobenzene	5400	U
95-48-7	2-Methylphenol	5400	U
108-60-1	bis(2-Chloroisopropyl)Ether	5400	U
106-44-5	4-Methylphenol	5400	U
621-64-7	N-Nitroso-Di-n-Propylamine	5400	U
67-72-1	Hexachloroethane	5400	U
98-95-3	Nitrobenzene	5400	U
78-59-1	Isophorone	5400	U
88-75-5	2-Nitrophenol	5400	U
105-67-9	2,4-Dimethylphenol	5400	U
65-85-0	Benzoic Acid	26000	U
111-91-1	bis(2-Chloroethoxy)Methane	5400	U
120-83-2	2,4-Dichlorophenol	5400	U
120-82-1	1,2,4-Trichlorobenzene	5400	U
91-20-3	Naphthalene	620	J
106-47-8	4-Chloroaniline	5400	U
87-68-3	Hexachlorobutadiene	5400	U
59-50-7	4-Chloro-3-Methylphenol	5400	U
91-57-6	2-Methylnaphthalene	960	J
77-47-4	Hexachlorocyclopentadiene	5400	U
88-06-2	2,4,6-Trichlorophenol	5400	U
95-95-4	2,4,5-Trichlorophenol	26000	U
91-58-7	2-Chloronaphthalene	5400	U
88-74-4	2-Nitroaniline	26000	U
131-11-3	Dimethyl Phthalate	5400	U
208-96-8	Acenaphthylene	5400	U
606-20-2	2,6-Dinitrotoluene	5400	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CGB63MS

Lab Name: CEIMIC CORP Contract: 68D90024

Lab Code: CEIMIC Case No.: 18472 SAS No.: _____ SDG No.: CGB60

Matrix: (soil/water) SOIL Lab Sample ID: 910261-04MS

Sample wt/vol: 30.2 (g/mL) G Lab File ID: DS838

Level: (low/med) LOW Date Received: 05/23/91

% Moisture: not dec. 51 dec. ____ Date Extracted: 05/24/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 06/11/91

GPC Cleanup: (Y/N) N pH: 7.6 Dilution Factor: 8.1

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

CAS NO.	COMPOUND		Q
99-09-2	3-Nitroaniline	26000	U
83-32-9	Acenaphthene	5400	U
51-28-5	2,4-Dinitrophenol	26000	U
100-02-7	4-Nitrophenol	26000	U
132-64-9	Dibenzofuran	5400	U
121-14-2	2,4-Dinitrotoluene	5400	U
84-66-2	Diethylphthalate	5400	U
7005-72-3	4-Chlorophenyl-phenylether	5400	U
86-73-7	Fluorene	5400	U
100-01-6	4-Nitroaniline	26000	U
534-52-1	4,6-Dinitro-2-Methylphenol	26000	U
86-30-6	N-Nitrosodiphenylamine (1)	5400	U
101-55-3	4-Bromophenyl-phenylether	5400	U
118-74-1	Hexachlorobenzene	5400	U
87-86-5	Pentachlorophenol	26000	U
85-01-8	Phenanthrene	1700	J
120-12-7	Anthracene	5400	U
84-74-2	Di-n-Butylphthalate	5400	U
206-44-0	Fluoranthene	3300	J
129-00-0	Pyrene	5400	U
85-68-7	Butylbenzylphthalate	850	J
91-94-1	3,3'-Dichlorobenzidine	11000	U
56-55-3	Benzo(a)Anthracene	1700	J
218-01-9	Chrysene	2200	J
117-81-7	bis(2-Ethylhexyl)Phthalate	1200	J
117-84-0	Di-n-Octyl Phthalate	5400	U
205-99-2	Benzo(b)Fluoranthene	2600	JX
207-08-9	Benzo(k)Fluoranthene	3000	JXX
50-32-8	Benzo(a)Pyrene	2400	J
193-39-5	Indeno(1,2,3-cd)Pyrene	2500	J
53-70-3	Dibenz(a,h)Anthracene	5400	U
191-24-2	Benzo(g,h,i)Perylene	2300	J

(1) - Cannot be separated from Diphenylamine

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAM

OSB63M

Lab Name: CEIMIC CORP Contract: 68D90024

Lab Code: CEIMIC Case No.: 16472 SAS No.: _____ SDG No.: OSB6

Matrix: (soil/water) SOIL Lab Sample ID: 910261-0

Sample wt/vol: 30.3 (g/mL) G Lab File ID: DS829

Level: (low/med) LOW Date Received: 05/23/91

% Moisture: not dec. 5 dec. ____ Date Extracted: 05/24/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 06/11/91

GPC Cleanup: (Y/N) N pH: 7.6 Dilution Factor: 8.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	5400	U
111-44-4	bis(2-Chloroethyl)Ether	5400	U
95-57-8	2-Chlorophenol	5400	U
541-73-1	1,3-Dichlorobenzene	5400	U
106-46-7	1,4-Dichlorobenzene	5400	U
100-51-6	Benzyl Alcohol	5400	U
95-50-1	1,2-Dichlorobenzene	5400	U
95-48-7	2-Methylphenol	5400	U
108-60-1	bis(2-Chloroisopropyl)Ether	5400	U
106-44-5	4-Methylphenol	5400	U
621-64-7	N-Nitroso-Di-n-Propylamine	5400	U
67-72-1	Hexachloroethane	5400	U
98-95-3	Nitrobenzene	5400	U
78-59-1	Isophorone	5400	U
88-75-5	2-Nitrophenol	5400	U
105-67-9	2,4-Dimethylphenol	5400	U
65-85-0	Benzoic Acid	26000	U
111-91-1	bis(2-Chloroethoxy)Methane	5400	U
120-83-2	2,4-Dichlorophenol	5400	U
120-82-1	1,2,4-Trichlorobenzene	5400	U
91-20-3	Naphthalene	670	J
106-47-8	4-Chloroaniline	5400	U
87-68-3	Hexachlorobutadiene	5400	U
59-50-7	4-Chloro-3-Methylphenol	5400	U
91-57-6	2-Methylnaphthalene	1000	J
77-47-4	Hexachlorocyclopentadiene	5400	U
88-06-2	2,4,6-Trichlorophenol	5400	U
95-95-4	2,4,5-Trichlorophenol	26000	U
91-58-7	2-Chloronaphthalene	5400	U
88-74-4	2-Nitroaniline	26000	U
131-11-3	Dimethyl Phthalate	5400	U
208-96-8	Acenaphthylene	5400	U
606-20-2	2,6-Dinitrotoluene	5400	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CGB63MSD

Lab Name: CEIMIC CORP Contract: 68D90024

Lab Code: CEIMIC Case No.: 18472 SAS No.: _____ SDG No.: CGB60

Matrix: (soil/water) SOIL Lab Sample ID: 910261-04MSD

Sample wt/vol: 30.3 (g/mL) G Lab File ID: D5839

Level: (low/med) LOW Date Received: 05/23/91

% Moisture: not dec. 51 dec. ____ Date Extracted: 05/24/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 06/11/91

GPC Cleanup: (Y/N) N pH: 7.6 Dilution Factor: 8.1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	26000	U
83-32-9	Acenaphthene	5400	U
51-28-5	2,4-Dinitrophenol	26000	U
100-02-7	4-Nitrophenol	26000	U
132-64-9	Dibenzofuran	5400	U
121-14-2	2,4-Dinitrotoluene	5400	U
84-66-2	Diethylphthalate	5400	U
7005-72-3	4-Chlorophenyl-phenylether	5400	U
86-73-7	Fluorene	5400	U
100-01-6	4-Nitroaniline	26000	U
534-52-1	4,6-Dinitro-2-Methylphenol	26000	U
86-30-6	N-Nitrosodiphenylamine (1)	5400	U
101-55-3	4-Bromophenyl-phenylether	5400	U
118-74-1	Hexachlorobenzene	5400	U
87-86-5	Pentachlorophenol	26000	U
85-01-8	Phenanthrene	1800	J
120-12-7	Anthracene	5400	U
84-74-2	Di-n-Butylphthalate	5400	U
206-44-0	Fluoranthene	3100	J
129-00-0	Pyrene	5400	U
85-68-7	Butylbenzylphthalate	670	J
91-94-1	3,3'-Dichlorobenzidine	11000	U
56-55-3	Benzo(a)Anthracene	1800	J
218-01-9	Chrysene	2100	J
117-81-7	bis(2-Ethylhexyl)Phthalate	870	J
11 84-0	Di-n-Octyl Phthalate	5400	U
20 89-2	Benzo(b)Fluoranthene	3600	JXX
207-08-9	Benzo(k)Fluoranthene	1900	JXXX
50-32-8	Benzo(a)Pyrene	2400	J
193-39-5	Indeno(1,2,3-cd)Pyrene	2100	J
53-70-3	Dibenz(a,h)Anthracene	5400	U
191-24-2	Benzo(g,h,i)Perylene	1800	J

(1) - Cannot be separated from Diphenylamine

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CGB61MS

Lab Name: CETMIC CORP Contract: 68D20024

Lab Code: CETMIC Case No.: 16472 SAS No.: _____ SDG No.: CGB60

Matrix: (soil/water) SOIL Lab Sample ID: 91026I-02MS

Sample wt/vol: 30.2 (g/mL) G Lab File ID: _____

Level: (low/med) LOW Date Received: 05/23/91

% Moisture: not dec. 4 dec. ____ Date Extracted: 05/24/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 06/23/91

GPC Cleanup: (Y/N) N pH: 6.6 Dilution Factor: 5.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	41	U
319-85-7	beta-BHC	41	U
319-86-8	delta-BHC	41	U
58-89-9	gamma-BHC (Lindane)	41	U
76-44-8	Heptachlor	41	U
309-00-2	Aldrin	41	U
1024-57-3	Heptachlor epoxide	41	U
959-98-8	Endosulfan I	41	U
60-57-1	Dieldrin	82	U
72-55-9	4,4'-DDE	82	U
72-20-8	Endrin	82	U
33213-65-9	Endosulfan II	82	U
72-54-8	4,4'-DDD	82	U
1031-07-8	Endosulfan sulfate	82	U
50-29-3	4,4'-DDT	82	U
72-43-5	Methoxychlor	410	U
53494-70-5	Endrin ketone	82	U
5103-71-9	alpha-Chlordane	410	U
5103-74-2	gamma-Chlordane	410	U
8001-35-2	Toxaphene	820	U
12674-11-2	Aroclor-1016	410	U
11104-28-2	Aroclor-1221	410	U
11141-16-5	Aroclor-1232	410	U
53469-21-9	Aroclor-1242	410	U
12672-29-6	Aroclor-1248	1400	
11097-69-1	Aroclor-1254	3200	
11096-82-5	Aroclor-1260	820	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CGR61MSD

Lab Name: CEIMIC CORP Contract: 68D90024

Lab Code: CEIMIC Case No.: 16402 SAS No.: _____ SDG No.: CGR60

Matrix: (soil/water) SOIL Lab Sample ID: 910261-0 MSD

Sample wt/vol: 30.3 (g/mL) G Lab File ID: _____

Level: (low/med) LOW Date Received: 05/23/91

Moisture: not dec. 4 dec. ____ Date Extracted: 05/24/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 06/23/91

GPC Cleanup: (Y/N) N pH: 6.6 Dilution Factor: 5.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	41	U
319-85-7	beta-BHC	41	U
319-86-8	delta-BHC	41	U
58-89-9	gamma-BHC (Lindane)	41	U
76-44-8	Heptachlor	41	U
309-00-2	Aldrin	41	U
1024-57-3	Heptachlor epoxide	41	U
959-98-8	Endosulfan I	41	U
60-57-1	Dieldrin	82	U
72-55-9	4,4'-DDE	82	U
72-20-8	Endrin	82	U
33213-65-9	Endosulfan II	82	U
72-54-8	4,4'-DDD	82	U
1031-07-8	Endosulfan sulfate	82	U
50-29-3	4,4'-DDT	82	U
72-43-5	Methoxychlor	410	U
53494-70-5	Endrin ketone	82	U
5103-71-9	alpha-Chlordane	410	U
5103-74-2	gamma-Chlordane	410	U
8001-35-2	Toxaphene	820	U
12674-11-2	Aroclor-1016	410	U
11104-28-2	Aroclor-1221	410	U
11141-16-5	Aroclor-1232	410	U
53469-21-9	Aroclor-1242	410	U
12672-29-6	Aroclor-1248	1400	
11097-69-1	Aroclor-1254	3200	
11096-82-5	Aroclor-1260	820	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CGB61MSDL

Lab Name: CETNIC CORP Contract: 68D90024

Lab Code: CETNIC Case No.: 16472 SAS No.: _____ SDG No.: CGB60

Matrix: (soil/water) SOIL Lab Sample ID: 910241-02MSDL

Sample wt/vol: 30.3 (g/mL) G Lab File ID: _____

Level: (low/med) LOW Date Received: 05/23/91

% Moisture: not dec. 4 dec. _____ Date Extracted: 05/24/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 06/23/91

GPC Cleanup: (Y/N) N pH: 6.6 Dilution Factor: 50

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	410	U
319-85-7	beta-BHC	410	U
319-86-8	delta-BHC	410	U
58-89-9	gamma-BHC (Lindane)	410	U
76-44-8	Heptachlor	410	U
309-00-2	Aldrin	410	U
1024-57-3	Heptachlor epoxide	410	U
959-98-8	Endosulfan I	410	U
60-57-1	Dieldrin	820	U
72-55-9	4,4'-DDE	820	U
72-20-8	Endrin	820	U
33213-65-9	Endosulfan II	820	U
72-54-8	4,4'-DDD	820	U
1031-07-8	Endosulfan sulfate	820	U
50-29-3	4,4'-DDT	820	U
72-43-5	Methoxychlor	4100	U
53494-70-5	Endrin ketone	820	U
5103-71-9	alpha-Chlordane	4100	U
5103-74-2	gamma-Chlordane	4100	U
8001-35-2	Toxaphene	8200	U
12674-11-2	Aroclor-1016	4100	U
11104-28-2	Aroclor-1221	4100	U
11141-16-5	Aroclor-1232	4100	U
53469-21-9	Aroclor-1242	4100	U
12672-29-6	Aroclor-1248	4100	U
11097-69-1	Aroclor-1254	8200	U
11096-82-5	Aroclor-1260	8200	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CGB61MSDDL

Lab Name: CETNIC CORP Contract: 68D90024

Lab Code: CETNIC Case No.: 16472 SAS No.: _____ SDG No.: CGB60

Matrix: (soil/water) SOIL Lab Sample ID: 910261-02MSDD

Sample wt/vol: 30.4 (g/mL) G Lab File ID: _____

Level: (low/med) LOW Date Received: 05/23/91

% Moisture: not dec. 4 dec. _____ Date Extracted: 05/24/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 06/23/91

GPC Cleanup: (Y/N) N pH: 6.6 Dilution Factor: 50

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	410	U
319-85-7	beta-BHC	410	U
319-86-8	delta-BHC	410	U
58-89-9	gamma-BHC (Lindane)	410	U
76-44-8	Heptachlor	410	U
309-00-2	Aldrin	410	U
1024-57-3	Heptachlor epoxide	410	U
959-98-8	Endosulfan I	410	U
60-57-1	Dieldrin	820	U
72-55-9	4,4'-DDE	820	U
72-20-8	Endrin	820	U
33213-65-9	Endosulfan II	820	U
72-54-8	4,4'-DDD	820	U
1031-07-8	Endosulfan sulfate	820	U
50-29-3	4,4'-DDT	820	U
72-43-5	Methoxychlor	4100	U
53494-70-5	Endrin ketone	820	U
5103-71-9	alpha-Chlordane	4100	U
5103-74-2	gamma-Chlordane	4100	U
8001-35-2	Toxaphene	8200	U
12674-11-2	Aroclor-1016	4100	U
11104-28-2	Aroclor-1221	4100	U
11141-16-5	Aroclor-1232	4100	U
53469-21-9	Aroclor-1242	4100	U
12672-29-6	Aroclor-1248	4100	U
11097-69-1	Aroclor-1254	8200	U
11096-82-5	Aroclor-1260	8200	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK01

Lab Name: CEIMIC CORP Contract: 68D90024

Lab Code: CEIMIC Case No.: 16472 SAS No.: _____ SDG No.: CGB60

Matrix: (soil/water) WATER Lab Sample ID: V60525-B1

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: F2252

Level: (low/med) LOW Date Received: 05/25/91

% Moisture: not dec. ____ Date Analyzed: 05/25/91

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

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

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Total Xylenes	5	U

1E

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

VBLK01

Lab Name: CEIMIC CORP Contract: 68D90024

Lab Code: CEIMIC Case No.: 16472 SAS No.: _____ SDG No.: CGB60

Matrix: (soil/water) WATER Lab Sample ID: V60525-B1

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: F2952

Level: (low/med) LOW Date Received: 05/25/91

% Moisture: not dec. ____ Date Analyzed: 05/25/91

Column (pack/cap) PACK Dilution Factor: 1.0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO
VBLK02

Lab Name: CEIMIC CORP Contract: 68D90024

Lab Code: CEIMIC Case No.: 16472 SAS No.: _____ SDG No.: CGR60

Matrix: (soil/water) SOIL Lab Sample ID: V50529-B1

Sample wt/vol: 5.0 (g/mL) G Lab File ID: E3986

Level: (low/med) LOW Date Received: 05/29/91

% Moisture: not dec. 0 Date Analyzed: 05/29/91

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	22	
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Total Xylenes	5	U

1E

EPA SAMPLE N

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

VBLK02

Lab Name: CEIMIC CORP Contract: 68D90024

Lab Code: CEIMIC Case No.: 16472 SAS No.: _____ SDG No.: CG886

Matrix: (soil/water) SOIL Lab Sample ID: V50529-B1

Sample wt/vol: 5.0 (g/mL) G Lab File ID: E3986

Level: (low/med) LOW Date Received: 05/29/91

% Moisture: not dec. 0 Date Analyzed: 05/29/91

Column (pack/cap) PACK Dilution Factor: 1.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO: VBLK03

Lab Name: CEIMIC CORP Contract: 68D90024

Lab Code: CEIMIC Case No.: 16472 SAS No.: _____ SDG No.: CGB60

Matrix: (soil/water) WATER Lab Sample ID: V20530-B1

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: B0742

Level: (low/med) LOW Date Received: 05/30/91

% Moisture: not dec. ____ Date Analyzed: 05/30/91

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	7	
67-64-1	Acetone	6	J
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Total Xylenes	5	U

1E

EPA SAMPLE NO

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

VBLK03

Lab Name: CEIMIC CORP Contract: 68D90024

Lab Code: CEIMIC Case No.: 18472 SAS No.: _____ SDG No.: CGB6L

Matrix: (soil/water) WATER Lab Sample ID: V20530-B1

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: B9742

Level: (low/med) LOW Date Received: 05/30/91

% Moisture: not dec. ____ Date Analyzed: 05/30/91

Column (pack/cap) CAP Dilution Factor: 1.0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE N: VBLK04

Lab Name: CEIMIC CORP Contract: 68D90024

Lab Code: CEIMIC Case No.: 16472 SAS No.: _____ SDG No.: CQ860

Matrix: (soil/water) SOIL Lab Sample ID: V50601-B1

Sample wt/vol: 5.0 (g/mL) G Lab File ID: E4024

Level: (low/med) LOW Date Received: 06/01/91

% Moisture: not dec. 0 Date Analyzed: 06/01/91

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

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

CAS NO.	COMPOUND	Q
74-87-3	Chloromethane	10 U
74-83-9	Bromomethane	10 U
75-01-4	Vinyl Chloride	10 U
75-00-3	Chloroethane	10 U
75-09-2	Methylene Chloride	21
67-64-1	Acetone	10 U
75-15-0	Carbon Disulfide	5 U
75-35-4	1,1-Dichloroethene	5 U
75-34-3	1,1-Dichloroethane	5 U
540-59-0	1,2-Dichloroethene (total)	5 U
67-66-3	Chloroform	5 U
107-06-2	1,2-Dichloroethane	5 U
78-93-3	2-Butanone	10 U
71-55-6	1,1,1-Trichloroethane	5 U
56-23-5	Carbon Tetrachloride	5 U
108-05-4	Vinyl Acetate	10 U
75-27-4	Bromodichloromethane	5 U
78-87-5	1,2-Dichloropropane	5 U
10061-01-5	cis-1,3-Dichloropropene	5 U
79-01-6	Trichloroethene	5 U
124-48-1	Dibromochloromethane	5 U
79-00-5	1,1,2-Trichloroethane	5 U
71-43-2	Benzene	5 U
10061-02-6	Trans-1,2-Dichloropropene	5 U
75-25-2	Bromoform	5 U
108-10-1	4-Methyl-2-Pentanone	10 U
591-78-6	2-Hexanone	10 U
127-18-4	Tetrachloroethene	5 U
79-34-5	1,1,2,2-Tetrachloroethane	5 U
108-88-3	Toluene	5 U
108-90-7	Chlorobenzene	5 U
100-41-4	Ethylbenzene	5 U
100-42-5	Styrene	5 U
1330-20-7	Total Xylenes	5 U

1E

EPA SAMPLE NO

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

VBLK04

Lab Name: CEIMIC CORP Contract: 68D90024

Lab Code: CEIMIC Case No.: 16472 SAS No.: _____ SDG No.: CGB60

Matrix: (soil/water) SOIL Lab Sample ID: VB0601-B1

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B4024

Level: (low/med) LOW Date Received: 06/01/91

% Moisture: not dec. 0 Date Analyzed: 06/01/91

Column (pack/cap) PACK Dilution Factor: 1.0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

232

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

VBLK05

Lab Name: CEIMIC CORP Contract: 68D90024

Lab Code: CEIMIC Case No.: 18472 SAS No.: _____ SDG No.: CG860

Matrix: (soil/water) SOIL Lab Sample ID: VS0604-B1

Sample wt/vol: 5.0 (g/mL) G Lab File ID: E4039

Level: (low/med) LOW Date Received: 06/04/91

% Moisture: not dec. 0 Date Analyzed: 06/04/91

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	6	
67-64-1	Acetone	5	J
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Total Xylenes	5	U

1E

EPA SAMPLE N

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

VBLK05

Lab Name: CEIMIC CORP Contract: 68D90024

Lab Code: CEIMIC Case No.: 16472 SAS No.: _____ SDG No.: CGR60

Matrix: (soil/water) SOIL Lab Sample ID: V50604-B1

Sample wt/vol: 5.0 (g/mL) G Lab File ID: E4039

Level: (low/med) LOW Date Received: 06/04/91

% Moisture: not dec. 0 Date Analyzed: 06/04/91

Column (pack/cap) PACK Dilution Factor: 1.0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO: SBLK01

Lab Name: CEIMIC CORP Contract: 68D90024

Lab Code: CEIMIC Case No.: 16472 SAS No.: _____ SDG No.: C8860

Matrix: (soil/water) WATER Lab Sample ID: S0524-B2

Sample wt/vol: 1000 (g/mL) ML Lab File ID: D5644

Level: (low/med) LOW Date Received: 05/24/91

% Moisture: not dec. ____ dec. ____ Date Extracted: 05/24/91

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/24/91

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl Alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	bis(2-Chloroisopropyl)Ether	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
65-85-0	Benzoic Acid	50	U
111-91-1	bis(2-Chloroethoxy)Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	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	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethyl Phthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE N: SBLK01

Lab Name: CEIMI CORP Contract: 68D90024

Lab Code: CEIMI Case No.: 16472 SAS No.: _____ SDG No.: CGBL

Matrix: (soil/water) WATER Lab Sample ID: S0524-B2

Sample wt/vol: 1000 (g/mL) ML Lab File ID: D5844

Level: (low/med) LOW Date Received: 05/24/91

% Moisture: not dec. ____ dec. ____ Date Extracted: 05/24/91

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/24/91

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-Methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	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	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	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-Octyl Phthalate	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(a,h)Anthracene	10	U
191-24-2	Benzo(g,h,i)Perylene	10	U

(1) - Cannot be separated from Diphenylamine

1F

EPA SAMPLE N

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SBLK01

Lab Name: CEIMIC CORP Contract: 68D90024

Lab Code: CEIMIC Case No.: 16472 SAS No.: _____ SDG No.: C6860

Matrix: (soil/water) WATER Lab Sample ID: S0524-BS

Sample wt/vol: 1000 (g/mL) ML Lab File ID: D5844

Level: (low/med) LOW Date Received: 05/24/91

% Moisture: not dec. ____ dec. ____ Date Extracted: 05/24/91

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/24/91

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

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE N

SBLK02

Lab Name: CEIMIC CORP Contract: 68D90024

Lab Code: CEIMIC Case No.: 18472 SAS No.: _____ SDG No.: 0626

Matrix: (soil/water) SOIL Lab Sample ID: S0524-81

Sample wt/vol: 30.0 (g/mL) G Lab File ID: D5858

Level: (low/med) LOW Date Received: 05/24/91

% Moisture: not dec. 0 dec. ____ Date Extracted: 05/24/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 06/14/91

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

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

CAS NO.	COMPOUND	Q
108-95-2	Phenol	330 U
111-44-4	bis(2-Chloroethyl)Ether	330 U
95-57-8	2-Chlorophenol	330 U
541-73-1	1,3-Dichlorobenzene	330 U
106-46-7	1,4-Dichlorobenzene	330 U
100-51-6	Benzyl Alcohol	330 U
95-50-1	1,2-Dichlorobenzene	330 U
95-48-7	2-Methylphenol	330 U
108-60-1	bis(2-Chloroisopropyl)Ether	330 U
106-44-5	4-Methylphenol	330 U
621-64-7	N-Nitroso-Di-n-Propylamine	330 U
67-72-1	Hexachloroethane	330 U
98-95-3	Nitrobenzene	330 U
78-59-1	Isophorone	330 U
88-75-5	2-Nitrophenol	330 U
105-67-9	2,4-Dimethylphenol	330 U
65-85-0	Benzoic Acid	1600 U
111-91-1	bis(2-Chloroethoxy)Methane	330 U
120-83-2	2,4-Dichlorophenol	330 U
120-82-1	1,2,4-Trichlorobenzene	330 U
91-20-3	Naphthalene	330 U
106-47-8	4-Chloroaniline	330 U
87-68-3	Hexachlorobutadiene	330 U
59-50-7	4-Chloro-3-Methylphenol	330 U
91-57-6	2-Methylnaphthalene	330 U
77-47-4	Hexachlorocyclopentadiene	330 U
88-06-2	2,4,6-Trichlorophenol	330 U
95-95-4	2,4,5-Trichlorophenol	1600 U
91-58-7	2-Chloronaphthalene	330 U
88-74-4	2-Nitroaniline	1600 U
131-11-3	Dimethyl Phthalate	330 U
208-96-8	Acenaphthylene	330 U
606-20-2	2,6-Dinitrotoluene	330 U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE N

S8LK02

Lab Name: CEIMIC CORP Contract: 68D90024

Lab Code: CEIMIC Case No.: 16472 SAS No.: _____ SDG No.: D8860

Matrix: (soil/water) SOIL Lab Sample ID: S0824-81

Sample wt/vol: 30.0 (g/mL) G Lab File ID: D8858

Level: (low/med) LOW Date Received: 05/24/91

% Moisture: not dec. 0 dec. ____ Date Extracted: 05/24/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 06/14/91

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	1600	U
83-32-9	Acenaphthene	330	U
51-28-5	2,4-Dinitrophenol	1600	U
100-02-7	4-Nitrophenol	1600	U
132-64-9	Dibenzofuran	330	U
121-14-2	2,4-Dinitrotoluene	330	U
84-66-2	Diethylphthalate	330	U
7005-72-3	4-Chlorophenyl-phenylether	330	U
86-73-7	Fluorene	330	U
100-01-6	4-Nitroaniline	1600	U
534-52-1	4,6-Dinitro-2-Methylphenol	1600	U
86-30-6	N-Nitrosodiphenylamine (1)	330	U
101-55-3	4-Bromophenyl-phenylether	330	U
118-74-1	Hexachlorobenzene	330	U
87-86-5	Pentachlorophenol	1600	U
85-01-8	Phenanthrene	330	U
120-12-7	Anthracene	330	U
84-74-2	Di-n-Butylphthalate	330	U
206-44-0	Fluoranthene	330	U
129-00-0	Pyrene	330	U
85-68-7	Butylbenzylphthalate	330	U
91-94-1	3,3'-Dichlorobenzidine	660	U
56-55-3	Benzo(a)Anthracene	330	U
218-01-9	Chrysene	330	U
117-81-7	bis(2-Ethylhexyl)Phthalate	330	U
117-84-0	Di-n-Octyl Phthalate	330	U
205-99-2	Benzo(b)Fluoranthene	330	U
207-08-9	Benzo(k)Fluoranthene	330	U
50-32-8	Benzo(a)Pyrene	330	U
193-39-5	Indeno(1,2,3-cd)Pyrene	330	U
53-70-3	Dibenz(a,h)Anthracene	330	U
191-24-2	Benzo(g,h,i)Perylene	330	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE N: SBLK02

Lab Name: CEIMIC CORP Contract: 68D90024

Lab Code: CEIMIC Case No.: 18472 SAS No.: _____ SDG No.: 0828

Matrix: (soil/water) SOIL Lab Sample ID: 90824-81

Sample wt/vol: 30.0 (g/mL) G Lab File ID: D5858

Level: (low/med) LOW Date Received: 05/24/91

% Moisture: not dec. 0 dec. ____ Date Extracted: 05/24/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 06/14/91

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

Number TICs found: 4

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	000000	Unknown	5.12	170	J
2.	123422	4-Hydroxy-4-methyl-2-pentano	5.72	9700	AJ
3.	000000	Unknown	7.42	470	J
4.	000000	Unknown	28.32	170	J

480

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE N: SBLK03

Lab Name: CEIMIC CORP Contract: 68D90024

Lab Code: CEIMIC Case No.: 16472 SAS No.: SDG No.: CG860

Matrix: (soil/water) SOIL Lab Sample ID: S0524-B1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: A7986

Level: (low/med) LOW Date Received: 05/24/91

% Moisture: not dec. 0 dec. Date Extracted: 05/24/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 06/19/91

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	330	U
111-44-4	bis(2-Chloroethyl)Ether	330	U
95-57-8	2-Chlorophenol	330	U
541-73-1	1,3-Dichlorobenzene	330	U
106-46-7	1,4-Dichlorobenzene	330	U
100-51-6	Benzyl Alcohol	330	U
95-50-1	1,2-Dichlorobenzene	330	U
95-48-7	2-Methylphenol	330	U
108-60-1	bis(2-Chloroisopropyl)Ether	330	U
106-44-5	4-Methylphenol	330	U
621-64-7	N-Nitroso-Di-n-Propylamine	330	U
67-72-1	Hexachloroethane	330	U
98-95-3	Nitrobenzene	330	U
78-59-1	Isophorone	330	U
88-75-5	2-Nitrophenol	330	U
105-67-9	2,4-Dimethylphenol	330	U
65-85-0	Benzoic Acid	1600	U
111-91-1	bis(2-Chloroethoxy)Methane	330	U
120-83-2	2,4-Dichlorophenol	330	U
120-82-1	1,2,4-Trichlorobenzene	330	U
91-20-3	Naphthalene	330	U
106-47-8	4-Chloroaniline	330	U
87-68-3	Hexachlorobutadiene	330	U
59-50-7	4-Chloro-3-Methylphenol	330	U
91-57-6	2-Methylnaphthalene	330	U
77-47-4	Hexachlorocyclopentadiene	330	U
88-06-2	2,4,6-Trichlorophenol	330	U
95-95-4	2,4,5-Trichlorophenol	1600	U
91-58-7	2-Chloronaphthalene	330	U
88-74-4	2-Nitroaniline	1600	U
131-11-3	Dimethyl Phthalate	330	U
208-96-8	Acenaphthylene	330	U
606-20-2	2,6-Dinitrotoluene	330	U

IC

EPA SAMPLE N

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SBLK03

Lab Name: CEIMIC CORP Contract: 68D90024

Lab Code: CEIMIC Case No.: 18472 SAS No.: _____ SDG No.: 06BL_1

Matrix: (soil/water) SOIL Lab Sample ID: S0624-B1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: A7886

Level: (low/med) LOW Date Received: 05/24/91

% Moisture: not dec. 0 dec. ____ Date Extracted: 05/24/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 06/19/91

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
88-06-2	2-Nitroaniline	1600	U
83-32-9	Acenaphthene	330	U
51-28-5	2,4-Dinitrophenol	1600	U
100-02-7	4-Nitrophenol	1600	U
132-64-9	Dibenzofuran	330	U
121-14-2	2,4-Dinitrotoluene	330	U
84-66-2	Diethylphthalate	330	U
7005-72-3	4-Chlorophenyl-phenylether	330	U
86-73-7	Fluorene	330	U
100-01-6	4-Nitroaniline	1600	U
534-52-1	4,6-Dinitro-2-Methylphenol	1600	U
86-30-6	N-Nitrosodiphenylamine (1)	330	U
101-55-3	4-Bromophenyl-phenylether	330	U
118-74-1	Hexachlorobenzene	330	U
87-86-5	Pentachlorophenol	1600	U
85-01-8	Phenanthrene	330	U
120-12-7	Anthracene	330	U
84-74-2	Di-n-Butylphthalate	330	U
206-44-0	Fluoranthene	330	U
129-00-0	Pyrene	330	U
85-68-7	Butylbenzylphthalate	330	U
91-94-1	3,3'-Dichlorobenzidine	660	U
56-55-3	Benzo(a)Anthracene	330	U
218-01-9	Chrysene	330	U
117-81-7	Bis(2-Ethylhexyl)Phthalate	330	U
117-84-0	Di-n-Octyl Phthalate	330	U
205-99-2	Benzo(b)Fluoranthene	330	U
207-08-9	Benzo(k)Fluoranthene	330	U
50-32-8	Benzo(a)Pyrene	330	U
193-39-5	Indeno(1,2,3-cd)Pyrene	330	U
53-70-3	Dibenz(a,h)Anthracene	330	U
191-24-2	Benzo(g,h,i)Perylene	330	U

(1) - Cannot be separated from Diphenylamine

1F

EPA SAMPLE N

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SBLK03

Lab Name: CEIMIC CORP Contract: 68D90024

Lab Code: CEIMIC Case No.: 18472 SAS No.: _____ SDG No.: CSB60

Matrix: (soil/water) SOIL Lab Sample ID: S0524-B1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: A7896

Level: (low/med) LOW Date Received: 05/24/91

% Moisture: not dec. 0 dec. ____ Date Extracted: 05/24/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 06/13/91

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

Number TICs found: 7

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	000000	Unknown	5.23	200	J
2.	123422	4-Hydroxy-4-methyl-2-pentano	5.82	10000	AJ
3.	000000	Ketone	7.45	600	J
4.	000000	Unknown	9.57	130	J
5.	000000	Unknown	12.42	200	J
6.	000000	Unknown	29.39	220	J
7.	000000	Unknown	30.84	200	J

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLK01

Lab Name: CHEMIC CORP Contract: 68D90024

Lab Code: CHEMIC Case No.: 16472 SAS No.: _____ SDG No.: CG860

Matrix: (soil/water) SOIL Lab Sample ID: PO524-B1

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

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

% Moisture: not dec. ____ dec. ____ Date Extracted: 05/24/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 06/23/91

GPC Cleanup: (Y/N) N pH: ____ Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	8.0	U
319-85-7	beta-BHC	8.0	U
319-86-8	delta-BHC	8.0	U
58-89-9	gamma-BHC (Lindane)	8.0	U
76-44-8	Heptachlor	8.0	U
309-00-2	Aldrin	8.0	U
1024-57-3	Heptachlor epoxide	8.0	U
959-98-8	Endosulfan I	8.0	U
60-57-1	Dieldrin	16	U
72-55-9	4,4'-DDE	16	U
72-20-8	Endrin	16	U
33213-65-9	Endosulfan II	16	U
72-54-8	4,4'-DDD	16	U
1031-07-8	Endosulfan sulfate	16	U
50-29-3	4,4'-DDT	16	U
72-43-5	Methoxychlor	80	U
53494-70-5	Endrin ketone	16	U
5103-71-9	alpha-Chlordane	80	U
5103-74-2	gamma-Chlordane	80	U
8001-35-2	Toxaphene	160	U
12674-11-2	Aroclor-1016	80	U
11104-28-2	Aroclor-1221	80	U
11141-16-5	Aroclor-1232	80	U
53469-21-9	Aroclor-1242	80	U
12672-29-6	Aroclor-1248	80	U
11097-69-1	Aroclor-1254	160	U
11096-82-5	Aroclor-1260	160	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLK02

Lab Name: CETNIC CORP Contract: 68D90024

Lab Code: CETNIC Case No.: LA472 SAS No.: _____ SDG No.: C0560

Matrix: (soil/water) WATER Lab Sample ID: P0524-B2

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

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

% Moisture: not dec. ____ dec. ____ Date Extracted: 05/24/91

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 06/26/91

GPC Cleanup: (Y/N) N pH: ____ Dilution Factor: 1

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

CAS NO.	COMPOUND	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
5103-71-9	alpha-Chlordane	0.50 U
5103-74-2	gamma-Chlordane	0.50 U
8001-35-2	Toxaphene	1.0 U
12674-11-2	Aroclor-1016	0.50 U
11104-28-2	Aroclor-1221	0.50 U
11141-16-5	Aroclor-1232	0.50 U
53469-21-9	Aroclor-1242	0.50 U
12672-29-6	Aroclor-1248	0.50 U
11097-69-1	Aroclor-1254	1.0 U
11096-82-5	Aroclor-1260	1.0 U