SDMS DocID 2055953

VOLUME II

Organic and Inorganic Data Validation
For
New Jersey Firworks

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
ENVIRONMENTAL SCIENCE CENTER
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DATE : June 6, 2000

SUBJECT: Region III Data QA Review

FROM : [redacted]
Region III ESAT RPO (3ES20)

TO : William Wentworth
Regional Program Manager (3HS34)

Attached is the inorganic data validation report for the New Jersey Fireworks site (Case#: 27981, SDG#: MCTT34, MCTT35, MCTT42) 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 at (410) 305-2629.

Attachment

cc: Alan Fong (MDE)

WA File: 0300402 TDF# 0522

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ERRP

OFFICE OF ANAYTICAL SERVICES AND QUALITY ASSURANCE

Lockheed Martin Environmental Services
US EPA Environmental Science Center
701 Mapes Road Ft. Meade, MD 20755-5350
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LOCKHEED MARTIN

DATE: May 30, 2000

SUBJECT: Inorganic Data Validation (IM2 Level)
Case: 27981, SDGs: MCTT34, MCTT35, MCTT42
Site: New Jersey Fireworks

FROM: [redacted]
Inorganic Data Reviewer

[redacted]
Senior Oversight Chemist

TO: [redacted]
ESAT Regional Project Officer

OVERVIEW

Case 27981, Sample Delivery Groups (SDGs) MCTT34, MCTT35 and MCTT42, from the New Jersey Fireworks site consisted of eleven (11) aqueous and fourteen (14) soil samples analyzed for total metals and cyanide (CN^-) as well as eight (8) filtrate samples analyzed for dissolved metals. All samples were analyzed by American Analytical and Testing Services (AATS). The sample set included one (1) field blank, one (1) filtrate field blank, one (1) aqueous field duplicate pair, one (1) filtrate field duplicate pair and one (1) soil field duplicate pair. Samples were analyzed in accordance with Contract Laboratory Program (CLP) Statement of Work (SOW) ILM04.1 through Routine Analytical Services (RAS) program.

Sample MCWW04 (SDG MCTT42), Station Location GW-5, had analytes listed below that exceeded Ten Day Chemical Health Advisory Limits as noted. The Regional Project Manager (RPM) was notified by facsimile.

Analyte	Limit (ug/L)	Concentration (ug/L)
arsenic	50.0	267
chromium	1400.0	1450
lead	20.0	122

SUMMARY

All samples were successfully analyzed for all Target Analyte List (TAL) parameters. Areas of concern with respect to data usability are listed below.

Positive results detected in the field blank were utilized to qualify data in aqueous and soil samples. Positive results detected in the filtrate field blank were utilized to qualify data solely in the filtrate samples.

Data in this case have been impacted by outliers present in laboratory and field blanks, continuing calibration verification, ICP serial dilution, laboratory duplicate and Contract Required Detection Limit (CRDL) standard analyses. Details of these outliers are discussed under "Minor Problems"; specific samples affected are outlined in "Table 1A" and qualified analytical results for all samples are summarized on Data Summary Forms (DSFs).

MINOR PROBLEMS

Continuing Calibration (CCB), Preparation (PB) and/or Field (FB) Blanks had reported results greater than Instrument Detection Limits (IDLs) for analytes listed below. Reported results in affected samples which are less than or equal to five times ($\leq$5X) blank concentrations may be biased high and have been qualified "B" on DSFs.

SDG	Blank	Affected Analytes
MCTT34	CCB	arsenic (As)
	PB	cyanide (CN^-)
	FB	mercury (Hg), potassium (K)

SDG	Blank	Affected Analytes
MCTT35	CCB	calcium (Ca), copper (Cu), zinc (Zn)
	PB	sodium (Na)
	FB	iron (Fe), Hg

MCTT42	CCB	Ca, magnesium (Mg), K, silver (Ag)
	PB	Na, Zn
	FB	Hg, K

Preparation and/or continuing calibration blanks had negative results with absolute values greater than the IDLs for arsenic (As) in SDG MCTT35, as well as for aluminum (Al) in SDGs MCTT35 and MCTT42 and for Cu in SDG MCTT42. Reported results less than two times (<2X) the absolute value of the blanks and quantitation limits for these analytes in affected samples in these SDGs may be biased low and have been qualified "L" and "UL", respectively, on the DSFs.

CRDL standard recoveries were low (<90%) for selenium (Se) in SDG MCTT34, for lead (Pb) in SDG MCTT35 and for cobalt (Co), Pb, Ag and thallium (Tl) in SDG MCTT42. Low recovery may indicate negative biases for results detected near detection limits due to an unstable baseline. Reported results less than two times CRDL (<2XCRDL) and quantitation limits for these analytes in these SDGs may be biased low and have been qualified "L" and "UL", respectively, on the DSFs unless superseded by "B".

Recoveries of CRDL standards were high (>110%) regarding arsenic (As) in SDG MCTT34 and Zn in SDG MCTT42. High recoveries may indicate positive biases for results detected near detection limits due to an unstable baseline. Reported results less than two times CRDL (<2XCRDL) for these analytes in affected samples in these SDGs may be biased high and have been qualified "K" on DSFs unless superseded by "B".

Recoveries of CRDL standards were mixed for Se in SDGs MCTT35 and MCTT42, producing opposing bias effects for results detected near detection limits. Quantitation limits for this analyte in affected samples in these SDGs are estimated and have been qualified "UJ"on the DSFs.

The Percent Difference (%D) for the ICP serial dilution analysis was outside control limits (>10%) regarding Na in SDG MCTT42. Reported results relative to this analyte in this SDG are estimated and have been qualified "J" on the DSFs unless superseded by "B".

The Relative Percent Difference (RPD) for the laboratory duplicate analysis was outside soil control limits (35% RPD, ±2CRDL) for Pb SDG MCTT34. Reported results for this analyte in this SDG are estimated and have been qualified "J" on the DSFs.

Continuing Calibration Verification (CCV) standard recoveries were high (>110%) for Na in SDG MCTT34 and for barium (Ba) in SDG MCTT42. Reported results for these analytes in affected samples in these SDGs may be biased high and have been qualified "K" on the DSFs.

The reported result for iron (Fe) in sample MCWW04 (SDG MCTT42) was outside the established linear range of the instrument. This sample was not analyzed at a dilution for this analyte. The positive result for this analyte in this sample is estimated and has been qualified "J" on the DSF.

NOTES

The laboratory utilized an incorrect number of significant figures on the Form Is when reporting positive results for vanadium (V) in sample MCWW11 (SDG MCTT34) and for cobalt (Co) in sample MCTT39 (SDG MCTT35). The Form Is were corrected by the reviewer during validation of the data package.

An incorrect sample collection time was reported on the Chain of Custody (COC) record for sample MCTT35. The sample collection time was corrected by memo-to-file.

Data for Case 27981, SDGs MCTT34, MCTT35 and MCTT42, were reviewed in accordance with National Functional Guidelines for Evaluating Inorganic Analyses with Modification for use within Region III.

ATTACHMENTS

INFORMATION REGARDING REPORT CONTENT

Table 1A is a summary of qualifiers applied to the laboratory- generated results during data validation.

TABLE 1A	SUMMARY OF QUALIFIERS ON DATA SUMMARY FORMS AFTER DATA VALIDATION
TABLE 1B	CODES USED IN COMMENTS COLUMN OF TABLE 1A
APPENDIX A	GLOSSARY OF DATA QUALIFIER CODES
APPENDIX B	DATA SUMMARY FORMS
APPENDIX C	RESULTS REPORTED BY LABORATORY
APPENDIX D	SUPPORT DOCUMENTATION

DCN:27981IM2.wpd

TABLE 1A
SUMMARY OF QUALIFIERS ON DATA SUMMARY FORM AFTER DATA VALIDATION

CASE: 27981
SDG#: MCTT34

ANALYTE	SAMPLES AFFECTED	POSITIVE VALUES	NON-DETECTED VALUES	BIAS	COMMENTS*
As	MCWW10, MCWW11, MCWW15, MCWW16, MCWW18	B		High	CCB(2.5 ug/L)
	MCWW17	K		High	CRH(111.8%)
Pb	All Samples	J			DUP(55.2%)
Hg	All Samples Except MCWW10, MCWW16, MCWW21	B		High	FB (0.15 ug/L)
K	All Samples	B		High	FB (411 ug/L)
Se	All Samples Except MCWW21	L	UL	Low	CRL(88.3%, 87.5%)
Na	All Samples	K		High	CVH(110.2%, 110.1%)
CN^-	All Samples Except MCWW17, MCWW21	B		High	PB (0.07 mg/Kg)

* See explanation of Comments on Table 1B.

TABLE 1A
SUMMARY OF QUALIFIERS ON DATA SUMMARY FORM AFTER DATA VALIDATION

CASE: 27981
SDG#: MCTT35

ANALYTE	SAMPLES AFFECTED	POSITIVE VALUES	NON-DETECTED VALUES	BIAS	COMMENTS*
Al	MCTT35		UL	Low	CBN(-14.6 ug/L)
	MCTT43		UL	Low	CBN(-13.4 ug/L)
As	MCTT35, MCTT36, MCTT37, MCTT38, MCTT39		UL	Low	CBN(-3.1 ug/L)
Ca	MCTT43	B		High	CCB(31.0 ug/L)
Cu	MCTT37, MCTT38, MCTT39, MCTT40, MCTT41	B		High	CCB(1.6 ug/L)
Fe	MCTT35	B		High	FB (34.9 ug/L)
Pb	All Samples	L	UL	Low	CRL(79.7%)
Hg	MCTT35, MCTT38, MCTT39, MCTT40, MCTT41	B		High	FB (0.10 ug/L)
Se	All Samples		UJ	Mixed	CRM(85.3%, 111.6%)
Na	MCTT43	B		High	PB (98.70 ug/L)
Zn	MCTT36, MCTT43	B		High	CCB(2.4 ug/L)

* See explanation of Comments on Table 1B.

TABLE 1A
SUMMARY OF QUALIFIERS ON DATA SUMMARY FORM AFTER DATA VALIDATION

CASE: 27981
SDG#: MCTT42

ANALYTE	SAMPLES AFFECTED	POSITIVE VALUES	NON-DETECTED VALUES	BIAS	COMMENTS*
Al	MCTT42, MCWW00, MCWW02, MCWW03	L	UL	Low	PBN(-21.75 ug/L)
Ba	MCWW09	K		High	CVH(110.4%)
Ca	MCWW00, MCWW01, MCWW02, MCWW03	B		High	CCB(541.2 ug/L)
	MCTT42	B		High	CCB(537.2 ug/L)
Co	MCTT42, MCWW09		UL	Low	CRL(89.5%)
Cu	MCTT42		UL	Low	CBN(-2.2 ug/L)
Fe	MCWW04	J			LRA
Pb	MCTT42, MCWW01, MCWW03, MCWW05, MCWW06, MCWW07, MCWW08, MCWW09	L	UL	Low	CRL(84.5%)
Mg	MCTT42	B		High	CCB(66.7 ug/L)
Hg	MCWW00, MCWW01, MCWW04, MCWW05, MCWW07, MCWW08, MCWW09	B		High	FB (0.15 ug/L)
K	MCWW00, MCWW01, MCWW02, MCWW03, MCWW05, MCWW06, MCWW07	B		High	FB (411 ug/L)

* See explanation of Comments on Table 1B.

TABLE 1A
SUMMARY OF QUALIFIERS ON DATA SUMMARY FORM AFTER DATA VALIDATION

CASE: 27981
SDG#: MCTT42

ANALYTE	SAMPLES AFFECTED	POSITIVE VALUES	NON-DETECTED VALUES	BIAS	COMMENTS*
K	MCTT42	B		High	CCB(558.9 ug/L)
Se	All Samples Except MCTT42, MCWW04, MCWW09		UJ	Mixed	CRM(128.5%, 72.4%)
	MCTT42, MCWW09		UJ	Mixed	CRM(72.4%, 111.2%)
Ag	MCWW09	B		High	CCB(8.9 ug/L) CRL(85.5%)
	MCTT42		UL	Low	CRL(85.5%)
Na	All Samples Except MCTT42	J			ISD(14.1%)
	MCTT42	B		High	PB (110.79 ug/L) ISD(14.1%)
Tl	All Samples		UL	Low	CRL(88.6%)
Zn	MCTT42, MCWW01, MCWW08, MCWW09	B		High	PB (3.63 ug/L) CRH(116.6%, 121.6%)
	MCWW00, MCWW03, MCWW05, MCWW06, MCWW07	K		High	CRH(116.6%, 121.6%)

* See explanation of Comments on Table 1B.

TABLE 1B
CODES USED IN COMMENTS COLUMN

CCB = Continuing calibration blanks had results > IDLs (results are in parenthesis). Reported results which are less than five times (<5X) blank concentrations may be biased high.

CRH = CRDL standard recoveries were high (>110%) [% recoveries are in parenthesis]. Reported results which are <2XCRDL may be biased high.

DUP = The Relative Percent Difference (RPD) for the laboratory duplicate analysis was outside control limits (>20%) [RPD is in parenthesis]. Reported results are estimated.

FB = The field blanks had results > IDLs (results are in parenthesis). Reported results which are less than five times (<5X) the blank concentration may be biased high.

CRL = CRDL standard recoveries were low (<90%) [% recoveries are in parenthesis]. Reported results which are <2XCRDL and quantitation limits may be biased low.

CVH = Continuing Calibration Verification (CCV) standard recovery was high [% recovery is in parenthesis]. Reported results may be biased high.

PB = Preparation blanks had results > IDLs (results are in parenthesis). Reported results which are less than five times (<5X) the blank concentration may be biased high.

CBN = Continuing calibration blanks had negative results with absolute values greater than IDLs (results are in parenthesis). Reported results less than two times (2X) absolute value of the blank and quantitation limits may be biased low.

CRM = The CRDL standard recoveries were mixed (<90%,>110%) [% recoveries are in parenthesis]. Quantitation limits are estimated.

PBN = Preparation blanks had negative results with absolute values greater than IDLs (results are in parenthesis). Reported results less than two times (2X) absolute value of the blank and quantitation limits may be biased low.

LRA = The reported result exceeded the established linear range of the instrument. Reported results are estimated.

ISD = The Percent difference (%D) for the ICP serial dilution analysis exceeded the control limit (10%) [% recovery is in parenthesis]. Reported results are estimated.

APPENDIX A

Glossary of Qualifier Codes

GLOSSARY OF DATA QUALIFIER CODES (INORGANIC)

CODES RELATED TO IDENTIFICATION
(confidence concerning presence or absence of analytes):

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

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.

[ ] = Analyte present. As values approach the IDL the quantitation may not be accurate.

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

UL = Not detected, quantitation limit is probably higher.

OTHER CODES

Q = No analytical result.

APPENDIX C

Form Is

APPENDIX B

Data Summary Forms

DATA SUMMARY FORM: INORGANIC

Case #: 27981 SDG MCTT34 Number of Soil Samples : 14
Site : NEW JERSEY FIREWORKS Number of Water Samples : 0
Lab. : AATS

Sample Number :		MCTT34		MCWW10		MCWW11		MCWW12		MCWW13	
Sampling Location :		S-10		SED-1		SED-2		SED-3		SED-4	
Field QC		Field Dup. of MCWW18									
Matrix :		Soil		Soil		Soil		Soil		Soil	
Units :		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Date Sampled		04/21/2000		04/20/2000		04/20/2000		04/20/2000		04/20/2000	
Time Sampled :		09:00		12:00		10:00		09:45		11:05	
%Solids :		72.0		79.2		75.9		48.0		79.5	
Dilution Factor :		1.0		1.0		1.0		1.0		1.0	
ANALYTE	CRDL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	40	9790		517		1470		7970		3600	
ANTIMONY	12							[1.2]		[1.7]	
ARSENIC	2	4.3		[0.97]	B	[1.6]	B	6.8		3.5	
BARIUM	40	3350		[3.8]		[29.9]		81.2		294	
BERYLLIUM	1	[0.59]				[0.51]		[1.5]		[0.35]	
CADMIUM	1										
CALCIUM	1000	[221]		[145]		[529]		[742]		[325]	
CHROMIUM	2	23.5		6.1		9.6		37.7		22.1	
COBALT	10	[2.0]				[3.6]		22.7		[2.8]	
COPPER	5	[3.4]		[2.0]		16.0		23.5		8.8	
IRON	20	10400		2260		4430		21800		15300	
*LEAD	0.6	8.9	J	2.9	J	13.9	J	34.3	J	10.5	J
MAGNESIUM	1000	[554]		2000		[267]		[1190]		[325]	
MANGANESE	3	102		14.1		39.1		94.5		205	
MERCURY	0.1	[0.10]	B			[0.07]	B	0.18	B	[0.06]	B
NICKEL	8	[6.0]		20.5		[5.1]		26.9		[3.7]	
POTASSIUM	1000	[409]	B	[68.9]	B	[80.5]	B	[373]	B	[166]	B
SELENIUM	1		UL		UL		UL		UL		UL
SILVER	2										
SODIUM	1000	[420]	K	[358]	K	[406]	K	[588]	K	[349]	K
THALLIUM	2	[1.9]		[0.85]		[0.83]		[3.3]		[2.2]	
VANADIUM	10	42.6		[6.3]		[10.0]		37.7		29.9	
ZINC	4	17.9		8.1		26.7		120		22.7	
CYANIDE	0.5	[0.17]	B	[0.09]	B	[0.14]	B	[0.48]	B	[0.11]	B

CRDL = Contract Required Detection Limit *Action Level Exists SEE NARRATIVE FOR CODE DEFINITIONS

Revised 09/99

DATA SUMMARY FORM: INORGANIC

Case #: 27981
SDG : MCTT34
Site : NEW JERSEY FIREWORKS
Lab. : AATS

Sample Number :		MCWW15		MCWW16		MCWW17		MCWW18		MCWW19	
Sampling Location :		S-1		S-2		S-3		S-4		S-5	
Field QC								Field Dup. of MCTT34			
Matrix :		Soil		Soil		Soil		Soil		Soil	
Units :		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Date Sampled :		04/20/2000		04/21/2000		04/21/2000		04/21/2000		04/20/2000	
Time Sampled :		12:45		08:45		08:30		09:00		10:05	
%Solids :		78.7		92.9		92.6		84.0		70.6	
Dilution Factor		1.0		1.0		1.0		1.0		1.0	
ANALYTE	CRDL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	40	2400		1730		1860		6310		117000	
ANTIMONY	12									71.6	
ARSENIC	2	2.5	B	2.3	B	4.0	K	[1.8]	B	5.3	
BARIUM	40	[36.0]		[10.4]		[10.3]		2130		5900	
BERYLLIUM	1							[0.25]			
CADMIUM	1										
CALCIUM	1000	[659]		[76.5]		[138]		[151]		[206]	
CHROMIUM	2	9.4		10.7		25.5		20.2		12.4	
COBALT	10					[4.3]		[7.3]			
COPPER	5	16.6		5.3		12.2		5.9		50.9	
IRON	20	5380		4460		15500		12900		14700	
*LEAD	0.6	63.1	J	2.7	J	1.7	J	6.1	J	28.3	J
MAGNESIUM	1000	[362]		[103]		[78.0]		[327]		[159]	
MANGANESE	3	293		19.4		48.0		272		52.9	
MERCURY	0.1	[0.09]	B			[0.05]	B	[0.12]	B	[0.08]	B
NICKEL	8	[4.7]		[0.97]		[1.8]		[2.7]		18.2	
POTASSIUM	1000	[168]	B	[58.7]	B	[72.0]	B	[324]	B	[177]	B
SELENIUM	1		UL		UL		UL		UL		UL
SILVER	2										
SODIUM	1000	[458]	K	[258]	K	[316]	K	[326]	K	[403]	K
THALLIUM	2	[0.84]		[1.1]		2.7		[1.8]		[2.1]	
VANADIUM	10	12.1		[6.7]		12.9		20.8		18.3	
ZINC	4	33.9		4.4		11.2		10.4		47.1	
CYANIDE	0.5	[0.34]	B	[0.06]	B			[0.08]	B	[0.24]	B

CRDL = Contract Required Detection Limit *Action Level Exists SEE NARRATIVE FOR CODE DEFINITIONS

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DATA SUMMARY FORM: INORGANIC

Case #: 27981 SDG : MCTT34
Site : NEW JERSEY FIREWORKS
Lab. : AATS

Sample Number :		MCWW20		MCWW21		MCWW22		MCWW23			
Sampling Location :		S-6		S-7		S-8		S-9			
Field QC											
Matrix :		Soil		Soil		Soil		Soil			
Units :		mg/Kg		mg/Kg		mg/Kg		mg/Kg			
Date Sampled		04/21/2000		04/21/2000		04/21/2000		04/21/2000			
Time Sampled		09:25		09:50		09:40		09:45			
%Solids :		84.5		79.4		70.8		89.3			
Dilution Factor		1.0		1.0		1.0		1.0			
ANALYTE	CRDL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	40	7930		5800		5670		6780			
ANTIMONY	12			[1.5]		[4.3]		[4.6]			
ARSENIC	2	3.1		4.8		13.1		4.9			
BARIUM	40	[24.4]		49.7		1240		2080			
BERYLLIUM	1	[0.29]		1.5		[0.37]					
CADMIUM	1										
CALCIUM	1000	[76.3]		[213]		1460		[384]			
CHROMIUM	2	29.8		44.5		21.5		139			
COBALT	10	[2.2]		[5.3]		[2.9]		[2.2]			
COPPER	5	11.9		26.9		23.9		58.3			
IRON	20	13700		61500		23000		65500			
*LEAD	0.6	5.1	J	5.5	J	117	J	14.4	J		
MAGNESIUM	1000	[952]		1350		[497]		[183]			
MANGANESE	3	41.2		34.4		84.6		300			
MERCURY	0.1	0.15	B			0.14	B	[0.05]	B		
NICKEL	8	[5.1]		12.6		15.2		60.9			
POTASSIUM	1000	[358]	B	[294]	B	[232]	B	[297]	B		
SELENIUM	1		UL	2.5		1.6	L	2.1	L		
SILVER	2			[0.56]				[0.34]			
SODIUM	1000	[314]	K	[566]	K	[473]	K	[341]	K		
THALLIUM	2	[2.2]		8.2		3.2		9.2			
VANADIUM	10	40.8		47.5		56.3		18.0			
ZINC	4	15.6		32.2		102		38.8			
CYANIDE	0.5	[0.11]	B			[0.19]	B	[0.36]	B		

CRDL = Contract Required Detection Limit *Action Level Exists SEE NARRATIVE FOR CODE DEFINITIONS

Revised 09/99

DATA SUMMARY FORM: INORGANIC

Case #: 27981
Site :
Lab. :

SDG : MCTT35
NEW JERSEY FIREWORKS
AATS

Number of Soil Samples : 0
Number of Water Samples : 8

Sample Number		MCTT35		MCTT36		MCTT37		MCTT38		MCTT39	
Sampling Location		GW-4DM		GW-5DM		SW-1DM		SW-2DM		SW-3DM	
Field QC		Filtrate of MCWW03		Filtrate of MCWW04		Filtrate of MCWW05		Filtrate of MCWW06		Filtrate of MCWW07	
Matrix :		Water		Water		Water		Water		Water	
Units :		ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled		04/20/2000		04/21/2000		04/20/2000		04/20/2000		04/20/2000	
Time Sampled :		10:45		10:15		12:00		10:00		09:45	
%Solids :		0.0		0.0		0.0		0.0		0.0	
Dilution Factor		1.0		1.0		1.0		1.0		1.0	
ANALYTE	CRDL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	200		UL	[76.8]		[193]		[189]		[100]	
ANTIMONY	60										
*ARSENIC	10		UL		UL		UL		UL		UL
BARIUM	200	[12.5]		[25.5]		[34.1]		[46.3]		[53.1]	
BERYLLIUM	5										
*CADMIUM	5										
CALCIUM	5000	[1030]		[2480]		6100		[4940]		[3790]	
*CHROMIUM	10										
COBALT	50	[16.4]		[27.3]		[3.5]		[8.9]		[10.0]	
COPPER	25	[23.3]				[2.3]	B	[1.6]	B	[1.6]	B
IRON	100	[33.7]	B	1200		615		724		8960	
*LEAD	3		UL		UL		UL		UL		UL
MAGNESIUM	5000	[517]		[3430]		[2030]		[1930]		[1640]	
MANGANESE	15	[11.4]		410		53.7		129		254	
MERCURY	0.2	[0.10]	B					0.46	B	[0.14]	B
*NICKEL	40	[25.8]		[7.7]		[6.0]		[7.5]		[4.8]	
POTASSIUM	5000	[467]		[298]		[1500]		[1440]		[1090]	
SELENIUM	5		UJ		UJ		UJ		UJ		UJ
SILVER	10										
SODIUM	5000	[3700]		38900		11900		12600		7470	
THALLIUM	10										
VANADIUM	50										
ZINC	20	26.7		[6.3]	B	[18.3]		28.0		26.2	

CRDL = Contract Required Detection Limit

*Action Level Exists

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Revised 09/99

DATA SUMMARY FORM: INORGANIC

Case #: 27981 SDG : MCTT35
Site : NEW JERSEY FIREWORKS
Lab. : AATS

Sample Number :		MCTT40		MCTT41		MCTT43					
Sampling Location :		SW-4DM		SW-5DM		FB-1DM					
Field QC		Filtrate of MCWW08 Field Dup. of MCTT41		Filtrate of MCWW09 Field Dup. of MCTT40		Filtrate of MCTT42 Field Blank					
Matrix :		Water		Water		Water					
Units :		ug/L		ug/L		ug/L					
Date Sampled		04/20/2000		04/20/2000		04/20/2000					
Time Sampled :		11.05		13:00		10:00					
%Solids :		0.0		0.0		0.0					
Dilution Factor :		1.0		1.0		1.0					
ANALYTE	CRDL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	200	213		[187]			UL				
ANTIMONY	60	[3.8]		[4.2]							
*ARSENIC	10										
BARIUM	200	1560		1640							
BERYLLIUM	5										
*CADMIUM	5										
CALCIUM	5000	14600		14900		[35.0]	B				
*CHROMIUM	10										
COBALT	50	[3.0]		[3.0]							
COPPER	25	[4.1]	B	[5.3]	B						
IRON	100	1880		1870		[34.9]					
*LEAD	3		UL	[2.0]	L		UL				
MAGNESIUM	5000	[4070]		[4240]							
MANGANESE	15	144		122							
MERCURY	0.2	[0.11]	B	[0.11]	B	[0.10]					
*NICKEL	40	[5.5]		[6.1]							
POTASSIUM	5000	12700		13400		[52.7]					
SELENIUM	5		UJ		UJ		UJ				
SILVER	10										
SODIUM	5000	21300		22000		[114]	B				
THALLIUM	10										
VANADIUM	50										
ZINC	20	[18.4]		[16.7]		[2.3]	B				

CRDL = Contract Required Detection Limit *Action Level Exists SEE NARRATIVE FOR CODE DEFINITIONS

Revised 09/99

DATA SUMMARY FORM: INORGANIC

Case #: 27981 SDG : MCTT42 Number of Soil Samples : 0
Site : NEW JERSEY FIREWORKS Number of Water Samples : 11
Lab. : AATS

Sample Number :		MCTT42		MCWW00		MCWW01		MCWW02		MCWW03	
Sampling Location :		FB-1		GW-1		GW-2		GW-3		GW-4	
Field QC		Field QC									
Matrix :		Water		Water		Water		Water		Water	
Units :		ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled		04/20/2000		04/20/2000		04/20/2000		04/20/2000		04/20/2000	
Time Sampled		10:00		12:30		10:30		11:15		10:45	
%Solids :		0.0		0.0		0.0		0.0		0.0	
Dilution Factor :		1.0		1.0		1.0		1.0		1.0	
ANALYTE	CRDL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	200		UL		UL	[65.0]		[30.5]	L	[39.0]	L
ANTIMONY	60										
*ARSENIC	10										
BARIUM	200			[20.7]		[10.3]		[14.4]		[13.1]	
BERYLLIUM	5							[1.1]			
*CADMIUM	5										
CALCIUM	5000	[48.1]	B	[1930]	B	[943]	B	[1160]	B	[1000]	B
*CHROMIUM	10			[5.3]				[2.3]			
COBALT	50		UL	[6.9]		[5.7]		[10.7]		[15.8]	
COPPER	25		UL	258		149		41.7		26.3	
IRON	100					[39.4]		179		[53.1]	
*LEAD	3		UL	7.5		4.6	L	11.2		[2.0]	L
MAGNESIUM	5000	[45.6]	B	[964]		[625]		[553]		[518]	
MANGANESE	15			17.5		[8.4]		[12.9]		[11.5]	
MERCURY	0.2	[0.15]		[0.12]	B	[0.12]	B				
*NICKEL	40			[13.3]		[10.7]		[23.4]		[26.1]	
POTASSIUM	5000	[411]	B	[477]	B	[359]	B	[491]	B	[495]	B
SELENIUM	5		UJ		UJ		UJ		UJ		UJ
SILVER	10		UL								
SODIUM	5000	[51.4]	B	6860	J	[4360]	J	[3600]	J	[3790]	J
THALLIUM	10		UL		UL		UL		UL		UL
VANADIUM	50										
ZINC	20	[1.8]	B	29.3	K	[13.6]	B	57.8		24.8	K
*CYANIDE	10					[1.1]		[1.7]			

CRDL = Contract Required Detection Limit *Action Level Exists SEE NARRATIVE FOR CODE DEFINITIONS

Revised 09/99

DATA SUMMARY FORM: INORGANIC

Case #: 27981
SDG : MCTT42
Site : NEW JERSEY FIREWORKS
Lab. : AATS

Sample Number :		MCWW04		MCWW05		MCWW06		MCWW07		MCWW08	
Sampling Location :		GW-5		SW-1		SW-2		SW-3		SW-4	
Field QC										Field Dup. of MCWW09	
Matrix :		Water		Water		Water		Water		Water	
Units :		ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :		04/21/2000		04/20/2000		04/20/2000		04/20/2000		04/20/2000	
Time Sampled :		10:15		12:00		10:00		09:45		11:05	
%Solids :		0.0		0.0		0.0		0.0		0.0	
Dilution Factor :		1.0		1.0		1.0		1.0		1.0	
ANALYTE	CRDL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	200	94200		675		471		231		280	
ANTIMONY	60	[5.7]									
*ARSENIC	10	267						[3.4]			
BARIUM	200	714		[34.7]		[49.8]		[57.4]		1590	
BERYLLIUM	5	27.5									
*CADMIUM	5										
CALCIUM	5000	6930		5560		5050		[3700]		14500	
*CHROMIUM	10	1450		[4.4]							
COBALT	50	194		[3.9]		[9.1]		[9.4]		[2.1]	
COPPER	25	424		[2.1]		[2.2]				[4.5]	
IRON	100	575000	J	1440		1220		10700		2210	
*LEAD	3	122			UL		UL	[2.3]	L	[2.7]	L
MAGNESIUM	5000	13300		[2360]		[2110]		[1620]		[4230]	
MANGANESE	15	1620		51.5		132		276		148	
MERCURY	0.2	0.57	B	[0.17]	B			[0.12]	B	[0.14]	B
*NICKEL	40	97.7		[6.5]		[7.9]		[5.0]		[5.3]	
POTASSIUM	5000	7800		[1620]	B	[1530]	B	[1150]	B	12300	
SELENIUM	5	10.5			UJ		UJ		UJ		UJ
SILVER	10										
SODIUM	5000	39400	J	11400	J	13400	J	7620	J	21100	J
THALLIUM	10		UL		UL		UL		UL		UL
VANADIUM	50	1480		[2.7]							
ZINC	20	456		25.0	K	28.2	K	27.1	K	[17.8]	B
*CYANIDE	10	[1.6]		[1.3]		[1.0]		[1.0]		[2.2]	

CRDL = Contract Required Detection Limit *Action Level Exists SEE NARRATIVE FOR CODE DEFINITIONS

Revised 09/99

DATA SUMMARY FORM: INORGANIC

Case #: 27981 SDG : MCTT42
Site : NEW JERSEY FIREWORKS
Lab. : AATS

Sample Number :		MCWW09									
Sampling Location :		SW-5									
Field QC		Field Dup. of MCWW08									
Matrix :		Water									
Units :		ug/L									
Date Sampled :		04/20/2000									
Time Sampled :		13:00									
%Solids :		0.0									
Dilution Factor :		1.0									
ANALYTE	CRDL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	200	302									
ANTIMONY	60										
*ARSENIC	10										
BARIUM	200	1660	K								
BERYLLIUM	5										
*CADMIUM	5										
CALCIUM	5000	14600									
*CHROMIUM	10										
COBALT	50		UL								
COPPER	25	[4.9]									
IRON	100	2390									
*LEAD	3	[2.1]	L								
MAGNESIUM	5000	[4000]									
MANGANESE	15	152									
MERCURY	0.2	[0.10]	B								
*NICKEL	40	[5.5]									
POTASSIUM	5000	14000									
SELENIUM	5		UJ								
SILVER	10	[5.0]	B								
SODIUM	5000	21500	J								
THALLIUM	10		UL								
VANADIUM	50										
ZINC	20	[17.1]	B								
*CYANIDE	10	[1.7]									

CRDL = Contract Required Detection Limit *Action Level Exists SEE NARRATIVE FOR CODE DEFINITIONS

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MCTT34

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 27981_ SAS No.: _____ SDG No.: MCTT34

Matrix (soil/water): SOIL_ Lab Sample ID: 42769.01

Level (low/med): LOW__ Date Received: 04/22/00

% Solids: _72.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	9790	_		P_
7440-36-0	Antimony_	0.83	U		P_
7440-38-2	Arsenic__	4.3	_		P_
7440-39-3	Barium___	3350	_		P_
7440-41-7	Beryllium	0.59	B		P_
7440-43-9	Cadmium__	0.28	U		P_
7440-70-2	Calcium__	221	B		P_
7440-47-3	Chromium_	23.5	_		P_
7440-48-4	Cobalt___	2.0	B		P_
7440-50-8	Copper___	3.4	B		P_
7439-89-6	Iron____	10400	_		P_
7439-92-1	Lead____	8.9	_	*	P_
7439-95-4	Magnesium	554	B		P_
7439-96-5	Manganese	102	_		P_
7439-97-6	Mercury__	0.10	B		CV
7440-02-0	Nickel___	6.0	B		P_
7440-09-7	Potassium	409	B		P_
7782-49-2	Selenium_	0.83	U		P_
7440-22-4	Silver___	0.28	U		P_
7440-23-5	Sodium___	420	B		P_
7440-28-0	Thallium_	1.9	B		P_
7440-62-2	Vanadium_	42.6	_		P_
7440-66-6	Zinc____	17.9	_		P_
_____	Cyanide__	0.17	B		CA
_____	_____	_____	_		__

Color Before: BROWN____ Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW___ Clarity After: CLEAR_ Artifacts: _____

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MCWW10

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 27981_ SAS No.: _____ SDG No.: MCTT34

Matrix (soil/water): SOIL_ Lab Sample ID: 42769.21

Level (low/med): LOW__ Date Received: 04/22/00

% Solids: _79.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	517			P
7440-36-0	Antimony	0.76	U		P
7440-38-2	Arsenic	0.97	B		P
7440-39-3	Barium	3.8	B		P
7440-41-7	Beryllium	0.25	U		P
7440-43-9	Cadmium	0.25	U		P
7440-70-2	Calcium	145	B		P
7440-47-3	Chromium	6.1			P
7440-48-4	Cobalt	1.5	U		P
7440-50-8	Copper	2.0	B		P
7439-89-6	Iron	2260			P
7439-92-1	Lead	2.9		*	P
7439-95-4	Magnesium	2000			P
7439-96-5	Manganese	14.1			P
7439-97-6	Mercury	0.05	U		CV
7440-02-0	Nickel	20.5			P
7440-09-7	Potassium	68.9	B		P
7782-49-2	Selenium	0.76	U		P
7440-22-4	Silver	0.25	U		P
7440-23-5	Sodium	358	B		P
7440-28-0	Thallium	0.85	B		P
7440-62-2	Vanadium	6.3	B		P
7440-66-6	Zinc	8.1			P
	Cyanide	0.09	B		CA

Color Before: BROWN____ Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW___ Clarity After: CLEAR_ Artifacts: _____

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO. 5

MCWW11

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 27981_ SAS No.: _____ SDG No.: MCTT34

Matrix (soil/water): SOIL_ Lab Sample ID: 42769.22

Level (low/med): LOW__ Date Received: 04/22/00

% Solids: _75.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	1470			P
7440-36-0	Antimony_	0.78	U		P
7440-38-2	Arsenic__	1.6	B		P
7440-39-3	Barium___	29.9	B		P
7440-41-7	Beryllium	0.51	B		P
7440-43-9	Cadmium__	0.26	U		P
7440-70-2	Calcium__	529	B		P
7440-47-3	Chromium_	9.6			P
7440-48-4	Cobalt___	3.6	B		P
7440-50-8	Copper___	16.0			P
7439-89-6	Iron____	4430			P
7439-92-1	Lead____	13.9		*	P
7439-95-4	Magnesium	267	B		P
7439-96-5	Manganese	39.1			P
7439-97-6	Mercury__	0.07	B		CV
7440-02-0	Nickel___	5.1	B		P
7440-09-7	Potassium	80.5	B		P
7782-49-2	Selenium_	0.78	U		P
7440-22-4	Silver___	0.26	U		P
7440-23-5	Sodium___	406	B		P
7440-28-0	Thallium_	0.83	B		P
7440-62-2	Vanadium_	10.0 ~~10~~	B		P
7440-66-6	Zinc____	26.7			P
_____	Cyanide__	0.14	B		CA

Color Before: BROWN____ Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW___ Clarity After: CLEAR_ Artifacts: _____

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MCWW12

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 27981_ SAS No.: _____ SDG No.: MCTT34

Matrix (soil/water): SOIL_ Lab Sample ID: 42769.23

Level (low/med): LOW__ Date Received: 04/22/00

% Solids: _48.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	7970			P
7440-36-0	Antimony_	1.2	B		P
7440-38-2	Arsenic__	6.8			P
7440-39-3	Barium___	81.2			P
7440-41-7	Beryllium	1.5	B		P
7440-43-9	Cadmium__	0.40	U		P
7440-70-2	Calcium__	742	B		P
7440-47-3	Chromium_	37.7			P
7440-48-4	Cobalt___	22.7			P
7440-50-8	Copper___	23.5			P
7439-89-6	Iron____	21800			P
7439-92-1	Lead____	34.3		*	P
7439-95-4	Magnesium	1190	B		P
7439-96-5	Manganese	94.5			P
7439-97-6	Mercury__	0.18			CV
7440-02-0	Nickel___	26.9			P
7440-09-7	Potassium	373	B		P
7782-49-2	Selenium_	1.2	U		P
7440-22-4	Silver___	0.40	U		P
7440-23-5	Sodium___	588	B		P
7440-28-0	Thallium_	3.3	B		P
7440-62-2	Vanadium_	37.7			P
7440-66-6	Zinc____	120			P
	Cyanide__	0.48	B		CA

Color Before: BROWN____ Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW___ Clarity After: CLEAR_ Artifacts: _____

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

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MCWW13

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 27981_ SAS No.: _____ SDG No.: MCTT34

Matrix (soil/water): SOIL_ Lab Sample ID: 42769.24

Level (low/med): LOW__ Date Received: 04/22/00

% Solids: _79.5

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	3600	_		P_
7440-36-0	Antimony_	1.7	B		P_
7440-38-2	Arsenic__	3.5	_		P_
7440-39-3	Barium___	294	_		P_
7440-41-7	Beryllium	0.35	B		P_
7440-43-9	Cadmium__	0.24	U		P_
7440-70-2	Calcium__	325	B		P_
7440-47-3	Chromium_	22.1	_		P_
7440-48-4	Cobalt___	2.8	B		P_
7440-50-8	Copper___	8.8	_		P_
7439-89-6	Iron____	15300	_		P_
7439-92-1	Lead____	10.5	_	*	P_
7439-95-4	Magnesium	325	B		P_
7439-96-5	Manganese	205	_		P_
7439-97-6	Mercury__	0.06	B		CV
7440-02-0	Nickel___	3.7	B		P_
7440-09-7	Potassium	166	B		P_
7782-49-2	Selenium_	0.73	U		P_
7440-22-4	Silver___	0.24	U		P_
7440-23-5	Sodium___	349	B		P_
7440-28-0	Thallium_	2.2	B		P_
7440-62-2	Vanadium_	29.9	_		P_
7440-66-6	Zinc____	22.7	_		P_
_____	Cyanide__	0.11	B		CA

Color Before: BROWN____ Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW___ Clarity After: CLEAR_ Artifacts: _____

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MCWW15

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 27981_ SAS No.: _____ SDG No.: MCTT34

Matrix (soil/water): SOIL_ Lab Sample ID: 42769.25

Level (low/med): LOW__ Date Received: 04/22/00

% Solids: _78.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	2400			P
7440-36-0	Antimony_	0.73	U		P
7440-38-2	Arsenic__	2.5			P
7440-39-3	Barium___	36.0	B		P
7440-41-7	Beryllium	0.24	U		P
7440-43-9	Cadmium__	0.24	U		P
7440-70-2	Calcium__	659	B		P
7440-47-3	Chromium_	9.4			P
7440-48-4	Cobalt___	1.5	U		P
7440-50-8	Copper___	16.6			P
7439-89-6	Iron_____	5380			P
7439-92-1	Lead_____	63.1		*	P
7439-95-4	Magnesium	362	B		P
7439-96-5	Manganese	293			P
7439-97-6	Mercury__	0.09	B		CV
7440-02-0	Nickel___	4.7	B		P
7440-09-7	Potassium	168	B		P
7782-49-2	Selenium_	0.73	U		P
7440-22-4	Silver___	0.24	U		P
7440-23-5	Sodium___	458	B		P
7440-28-0	Thallium_	0.84	B		P
7440-62-2	Vanadium_	12.1			P
7440-66-6	Zinc_____	33.9			P
	Cyanide__	0.34	B		CA

Color Before: BROWN____ Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW___ Clarity After: CLEAR_ Artifacts: _____

Comments:

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MCWW16

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 27981_ SAS No.: _____ SDG No.: MCTT34

Matrix (soil/water): SOIL_ Lab Sample ID: 42769.26

Level (low/med): LOW__ Date Received: 04/22/00

% Solids: _92.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	1730			P
7440-36-0	Antimony_	0.62	U		P
7440-38-2	Arsenic__	2.3			P
7440-39-3	Barium___	10.4	B		P
7440-41-7	Beryllium	0.21	U		P
7440-43-9	Cadmium__	0.21	U		P
7440-70-2	Calcium__	76.5	B		P
7440-47-3	Chromium_	10.7			P
7440-48-4	Cobalt___	1.2	U		P
7440-50-8	Copper___	5.3			P
7439-89-6	Iron_____	4460			P
7439-92-1	Lead_____	2.7		*	P
7439-95-4	Magnesium	103	B		P
7439-96-5	Manganese	19.4			P
7439-97-6	Mercury__	0.05	U		CV
7440-02-0	Nickel___	0.97	B		P
7440-09-7	Potassium	58.7	B		P
7782-49-2	Selenium_	0.62	U		P
7440-22-4	Silver___	0.21	U		P
7440-23-5	Sodium___	258	B		P
7440-28-0	Thallium_	1.1	B		P
7440-62-2	Vanadium_	6.7	B		P
7440-66-6	Zinc_____	4.4			P
	Cyanide__	0.06	B		CA

Color Before: BROWN____ Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW___ Clarity After: CLEAR_ Artifacts: _____

Comments:

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MCWW17

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 27981_ SAS No.: _____ SDG No.: MCTT34

Matrix (soil/water): SOIL_ Lab Sample ID: 42769.27

Level (low/med): LOW__ Date Received: 04/22/00

% Solids: _92.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	1860			P
7440-36-0	Antimony_	0.64	U		P
7440-38-2	Arsenic__	4.0			P
7440-39-3	Barium___	10.3	B		P
7440-41-7	Beryllium	0.21	U		P
7440-43-9	Cadmium__	0.21	U		P
7440-70-2	Calcium__	138	B		P
7440-47-3	Chromium_	25.5			P
7440-48-4	Cobalt___	4.3	B		P
7440-50-8	Copper___	12.2			P
7439-89-6	Iron_____	15500			P
7439-92-1	Lead_____	1.7		*	P
7439-95-4	Magnesium	78.0	B		P
7439-96-5	Manganese	48.0			P
7439-97-6	Mercury__	0.05	B		CV
7440-02-0	Nickel___	1.8	B		P
7440-09-7	Potassium	72.0	B		P
7782-49-2	Selenium_	0.64	U		P
7440-22-4	Silver___	0.21	U		P
7440-23-5	Sodium___	316	B		P
7440-28-0	Thallium_	2.7			P
7440-62-2	Vanadium_	12.9			P
7440-66-6	Zinc_____	11.2			P
	Cyanide__	0.05	U		CA

Color Before: BROWN____ Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW___ Clarity After: CLEAR_ Artifacts: _____

Comments:

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MCWW18

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 27981_ SAS No.: _____ SDG No.: MCTT34

Matrix (soil/water): SOIL_ Lab Sample ID: 42769.28

Level (low/med): LOW__ Date Received: 04/22/00

% Solids: _84.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	6310			P
7440-36-0	Antimony_	0.70	U		P
7440-38-2	Arsenic__	1.8	B		P
7440-39-3	Barium___	2130			P
7440-41-7	Beryllium	0.25	B		P
7440-43-9	Cadmium__	0.23	U		P
7440-70-2	Calcium__	151	B		P
7440-47-3	Chromium_	20.2			P
7440-48-4	Cobalt___	7.3	B		P
7440-50-8	Copper___	5.9			P
7439-89-6	Iron____	12900			P
7439-92-1	Lead____	6.1		*	P
7439-95-4	Magnesium	327	B		P
7439-96-5	Manganese	272			P
7439-97-6	Mercury__	0.12	B		CV
7440-02-0	Nickel___	2.7	B		P
7440-09-7	Potassium	324	B		P
7782-49-2	Selenium_	0.70	U		P
7440-22-4	Silver___	0.23	U		P
7440-23-5	Sodium___	326	B		P
7440-28-0	Thallium_	1.8	B		P
7440-62-2	Vanadium_	20.8			P
7440-66-6	Zinc____	10.4			P
	Cyanide__	0.08	B		CA

Color Before: BROWN____ Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW___ Clarity After: CLEAR_ Artifacts: _____

Comments:

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MCWW19

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 27981_ SAS No.: _____ SDG No.: MCTT34

Matrix (soil/water): SOIL_ Lab Sample ID: 42769.29

Level (low/med): LOW__ Date Received: 04/22/00

% Solids: _70.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	117000			P
7440-36-0	Antimony_	71.6			P
7440-38-2	Arsenic__	5.3			P
7440-39-3	Barium___	5900			P
7440-41-7	Beryllium	0.28	U		P
7440-43-9	Cadmium__	0.28	U		P
7440-70-2	Calcium__	206	B		P
7440-47-3	Chromium_	12.4			P
7440-48-4	Cobalt___	1.7	U		P
7440-50-8	Copper___	50.9			P
7439-89-6	Iron_____	14700			P
7439-92-1	Lead_____	28.3		*	P
7439-95-4	Magnesium	159	B		P
7439-96-5	Manganese	52.9			P
7439-97-6	Mercury__	0.08	B		CV
7440-02-0	Nickel___	18.2			P
7440-09-7	Potassium	177	B		P
7782-49-2	Selenium_	0.84	U		P
7440-22-4	Silver___	0.28	U		P
7440-23-5	Sodium___	403	B		P
7440-28-0	Thallium_	2.1	B		P
7440-62-2	Vanadium_	18.3			P
7440-66-6	Zinc_____	47.1			P
	Cyanide__	0.24	B		CA

Color Before: BROWN____ Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW___ Clarity After: CLEAR_ Artifacts: _____

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MCWW20

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 27981_ SAS No.: _____ SDG No.: MCTT34

Matrix (soil/water): SOIL_ Lab Sample ID: 42769.30

Level (low/med): LOW__ Date Received: 04/22/00

% Solids: _84.5

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	7930			P
7440-36-0	Antimony_	0.70	U		P
7440-38-2	Arsenic__	3.1			P
7440-39-3	Barium___	24.4	B		P
7440-41-7	Beryllium	0.29	B		P
7440-43-9	Cadmium__	0.23	U		P
7440-70-2	Calcium__	76.3	B		P
7440-47-3	Chromium_	29.8			P
7440-48-4	Cobalt___	2.2	B		P
7440-50-8	Copper___	11.9			P
7439-89-6	Iron_____	13700			P
7439-92-1	Lead_____	5.1		*	P
7439-95-4	Magnesium	952	B		P
7439-96-5	Manganese	41.2			P
7439-97-6	Mercury__	0.15			CV
7440-02-0	Nickel___	5.1	B		P
7440-09-7	Potassium	358	B		P
7782-49-2	Selenium_	0.70	U		P
7440-22-4	Silver___	0.23	U		P
7440-23-5	Sodium___	314	B		P
7440-28-0	Thallium_	2.2	B		P
7440-62-2	Vanadium_	40.8			P
7440-66-6	Zinc_____	15.6			P
	Cyanide__	0.11	B		CA

Color Before: BROWN____ Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW___ Clarity After: CLEAR_ Artifacts: _____

Comments:

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MCWW21

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 27981_ SAS No.: _____ SDG No.: MCTT34

Matrix (soil/water): SOIL_ Lab Sample ID: 42769.31

Level (low/med): LOW__ Date Received: 04/22/00

% Solids: _79.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	5800			P
7440-36-0	Antimony_	1.5	B		P
7440-38-2	Arsenic__	4.8			P
7440-39-3	Barium___	49.7			P
7440-41-7	Beryllium	1.5			P
7440-43-9	Cadmium__	0.24	U		P
7440-70-2	Calcium__	213	B		P
7440-47-3	Chromium_	44.5			P
7440-48-4	Cobalt___	5.3	B		P
7440-50-8	Copper___	26.9			P
7439-89-6	Iron____	61500			P
7439-92-1	Lead____	5.5		*	P
7439-95-4	Magnesium	1350			P
7439-96-5	Manganese	34.4			P
7439-97-6	Mercury__	0.06	U		CV
7440-02-0	Nickel___	12.6			P
7440-09-7	Potassium	294	B		P
7782-49-2	Selenium_	2.5			P
7440-22-4	Silver___	0.56	B		P
7440-23-5	Sodium___	566	B		P
7440-28-0	Thallium_	8.2			P
7440-62-2	Vanadium_	47.5			P
7440-66-6	Zinc____	32.2			P
	Cyanide__	0.06	U		CA

Color Before: BROWN____ Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW___ Clarity After: CLEAR_ Artifacts: _____

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MCWW22

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 27981_ SAS No.: _____ SDG No.: MCTT34

Matrix (soil/water): SOIL_ Lab Sample ID: 42769.32

Level (low/med): LOW__ Date Received: 04/22/00

% Solids: _70.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	5670			P
7440-36-0	Antimony_	4.3	B		P
7440-38-2	Arsenic__	13.1			P
7440-39-3	Barium___	1240			P
7440-41-7	Beryllium	0.37	B		P
7440-43-9	Cadmium__	0.27	U		P
7440-70-2	Calcium__	1460			P
7440-47-3	Chromium_	21.5			P
7440-48-4	Cobalt___	2.9	B		P
7440-50-8	Copper___	23.9			P
7439-89-6	Iron____	23000			P
7439-92-1	Lead____	117		*	P
7439-95-4	Magnesium	497	B		P
7439-96-5	Manganese	84.6			P
7439-97-6	Mercury__	0.14			CV
7440-02-0	Nickel___	15.2			P
7440-09-7	Potassium	232	B		P
7782-49-2	Selenium_	1.6			P
7440-22-4	Silver___	0.27	U		P
7440-23-5	Sodium___	473	B		P
7440-28-0	Thallium_	3.2			P
7440-62-2	Vanadium_	56.3			P
7440-66-6	Zinc____	102			P
	Cyanide__	0.19	B		CA

Color Before: BROWN____ Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW___ Clarity After: CLEAR_ Artifacts: _____

Comments:

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MCWW23

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 27981_ SAS No.: _____ SDG No.: MCTT34

Matrix (soil/water): SOIL_ Lab Sample ID: 42769.33

Level (low/med): LOW__ Date Received: 04/22/00

% Solids: _89.3

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	6780			P
7440-36-0	Antimony_	4.6	B		P
7440-38-2	Arsenic__	4.9			P
7440-39-3	Barium___	2080			P
7440-41-7	Beryllium	0.22	U		P
7440-43-9	Cadmium__	0.22	U		P
7440-70-2	Calcium__	384	B		P
7440-47-3	Chromium_	139			P
7440-48-4	Cobalt___	2.2	B		P
7440-50-8	Copper___	58.3			P
7439-89-6	Iron____	65500			P
7439-92-1	Lead____	14.4		*	P
7439-95-4	Magnesium	183	B		P
7439-96-5	Manganese	300			P
7439-97-6	Mercury__	0.05	B		CV
7440-02-0	Nickel___	60.9			P
7440-09-7	Potassium	297	B		P
7782-49-2	Selenium_	2.1			P
7440-22-4	Silver___	0.34	B		P
7440-23-5	Sodium___	341	B		P
7440-28-0	Thallium_	9.2			P
7440-62-2	Vanadium_	18.0			P
7440-66-6	Zinc____	38.8			P
	Cyanide__	0.36	B		CA

Color Before: BROWN____ Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW___ Clarity After: CLEAR_ Artifacts: _____

Comments:

SDG MCTT35

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MCTT35

Lab Name: AMERICAN_ANALYTICAL_____ Contract: 68W00086__

Lab Code: AATS__ Case No.: 27981_ SAS No.: _____ SDG No.: MCTT35

Matrix (soil/water): WATER Lab Sample ID: 42769.02

Level (low/med): LOW__ Date Received: 04/22/00

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	13.0	U		P
7440-36-0	Antimony_	3.0	U		P
7440-38-2	Arsenic__	3.0	U		P
7440-39-3	Barium___	12.5	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium__	1.0	U		P
7440-70-2	Calcium__	1030	B		P
7440-47-3	Chromium_	2.0	U		P
7440-48-4	Cobalt___	16.4	B		P
7440-50-8	Copper___	23.3	B		P
7439-89-6	Iron_____	33.7	B		P
7439-92-1	Lead_____	2.0	U		P
7439-95-4	Magnesium	517	B		P
7439-96-5	Manganese	11.4	B		P
7439-97-6	Mercury__	0.10	B		CV
7440-02-0	Nickel___	25.8	B		P
7440-09-7	Potassium	467	B		P
7782-49-2	Selenium_	4.0	U		P
7440-22-4	Silver___	3.0	U		P
7440-23-5	Sodium___	3700	B		P
7440-28-0	Thallium_	6.0	U		P
7440-62-2	Vanadium_	2.0	U		P
7440-66-6	Zinc_____	26.7			P

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MCTT36

Lab Name: AMERICAN_ANALYTICAL_____ Contract: 68W00086__

Lab Code: AATS__ Case No.: 27981_ SAS No.: _____ SDG No.: MCTT35

Matrix (soil/water): WATER Lab Sample ID: 42769.03

Level (low/med): LOW__ Date Received: 04/22/00

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	76.8	B		P
7440-36-0	Antimony_	3.0	U		P
7440-38-2	Arsenic__	3.0	U		P
7440-39-3	Barium__	25.5	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium__	1.0	U		P
7440-70-2	Calcium__	2480	B		P
7440-47-3	Chromium_	2.0	U		P
7440-48-4	Cobalt___	27.3	B		P
7440-50-8	Copper___	1.0	U		P
7439-89-6	Iron____	1200			P
7439-92-1	Lead____	2.0	U		P
7439-95-4	Magnesium	3430	B		P
7439-96-5	Manganese	410			P
7439-97-6	Mercury__	0.10	U		CV
7440-02-0	Nickel___	7.7	B		P
7440-09-7	Potassium	298	B		P
7782-49-2	Selenium_	4.0	U		P
7440-22-4	Silver___	3.0	U		P
7440-23-5	Sodium___	38900			P
7440-28-0	Thallium_	6.0	U		P
7440-62-2	Vanadium_	2.0	U		P
7440-66-6	Zinc____	6.3	B		P

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MCTT37

Lab Name: AMERICAN_ANALYTICAL_____ Contract: 68W00086__

Lab Code: AATS__ Case No.: 27981_ SAS No.: _____ SDG No.: MCTT35

Matrix (soil/water): WATER Lab Sample ID: 42769.04

Level (low/med): LOW__ Date Received: 04/22/00

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	193	B		P
7440-36-0	Antimony_	3.0	U		P
7440-38-2	Arsenic__	3.0	U		P
7440-39-3	Barium___	34.1	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium__	1.0	U		P
7440-70-2	Calcium__	6100			P
7440-47-3	Chromium_	2.0	U		P
7440-48-4	Cobalt___	3.5	B		P
7440-50-8	Copper___	2.3	B		P
7439-89-6	Iron_____	615			P
7439-92-1	Lead_____	2.0	U		P
7439-95-4	Magnesium	2030	B		P
7439-96-5	Manganese	53.7			P
7439-97-6	Mercury__	0.10	U		CV
7440-02-0	Nickel___	6.0	B		P
7440-09-7	Potassium	1500	B		P
7782-49-2	Selenium_	4.0	U		P
7440-22-4	Silver___	3.0	U		P
7440-23-5	Sodium___	11900			P
7440-28-0	Thallium_	6.0	U		P
7440-62-2	Vanadium_	2.0	U		P
7440-66-6	Zinc_____	18.3	B		P

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MCTT38

Lab Name: AMERICAN_ANALYTICAL_____ Contract: 68W00086__

Lab Code: AATS__ Case No.: 27981_ SAS No.: _____ SDG No.: MCTT35

Matrix (soil/water): WATER Lab Sample ID: 42769.05

Level (low/med): LOW__ Date Received: 04/22/00

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	189	B		P_
7440-36-0	Antimony_	3.0	U		P_
7440-38-2	Arsenic__	3.0	U		P_
7440-39-3	Barium___	46.3	B		P_
7440-41-7	Beryllium	1.0	U		P_
7440-43-9	Cadmium__	1.0	U		P_
7440-70-2	Calcium__	4940	B		P_
7440-47-3	Chromium_	2.0	U		P_
7440-48-4	Cobalt___	8.9	B		P_
7440-50-8	Copper___	1.6	B		P_
7439-89-6	Iron____	724			P_
7439-92-1	Lead____	2.0	U		P_
7439-95-4	Magnesium	1930	B		P_
7439-96-5	Manganese	129			P_
7439-97-6	Mercury__	0.46			CV
7440-02-0	Nickel___	7.5	B		P_
7440-09-7	Potassium	1440	B		P_
7782-49-2	Selenium_	4.0	U		P_
7440-22-4	Silver___	3.0	U		P_
7440-23-5	Sodium___	12600			P_
7440-28-0	Thallium_	6.0	U		P_
7440-62-2	Vanadium_	2.0	U		P_
7440-66-6	Zinc____	28.0			P_

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MCTT39

Lab Name: AMERICAN_ANALYTICAL_____ Contract: 68W00086__

Lab Code: AATS__ Case No.: 27981_ SAS No.: _____ SDG No.: MCTT35

Matrix (soil/water): WATER Lab Sample ID: 42769.06

Level (low/med): LOW__ Date Received: 04/22/00

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	100	B		P_
7440-36-0	Antimony_	3.0	U		P_
7440-38-2	Arsenic__	3.0	U		P_
7440-39-3	Barium___	53.1	B		P_
7440-41-7	Beryllium	1.0	U		P_
7440-43-9	Cadmium__	1.0	U		P_
7440-70-2	Calcium__	3790	B		P_
7440-47-3	Chromium_	2.0	U		P_
7440-48-4	Cobalt___	~~10~~ 10.0	B		P_
7440-50-8	Copper___	1.6	B		P_
7439-89-6	Iron____	8960			P_
7439-92-1	Lead____	2.0	U		P_
7439-95-4	Magnesium	1640	B		P_
7439-96-5	Manganese	254			P_
7439-97-6	Mercury__	0.14	B		CV
7440-02-0	Nickel___	4.8	B		P_
7440-09-7	Potassium	1090	B		P_
7782-49-2	Selenium_	4.0	U		P_
7440-22-4	Silver___	3.0	U		P_
7440-23-5	Sodium___	7470			P_
7440-28-0	Thallium_	6.0	U		P_
7440-62-2	Vanadium_	2.0	U		P_
7440-66-6	Zinc____	26.2			P_

DJ 4/24/00

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MCTT40

Lab Name: AMERICAN_ANALYTICAL_____ Contract: 68W00086__

Lab Code: AATS__ Case No.: 27981_ SAS No.: _____ SDG No.: MCTT35

Matrix (soil/water): WATER Lab Sample ID: 42769.07

Level (low/med): LOW__ Date Received: 04/22/00

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	213			P
7440-36-0	Antimony_	3.8	B		P
7440-38-2	Arsenic__	3.0	U		P
7440-39-3	Barium___	1560			P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium__	1.0	U		P
7440-70-2	Calcium__	14600			P
7440-47-3	Chromium_	2.0	U		P
7440-48-4	Cobalt___	3.0	B		P
7440-50-8	Copper___	4.1	B		P
7439-89-6	Iron_____	1880			P
7439-92-1	Lead_____	2.0	U		P
7439-95-4	Magnesium	4070	B		P
7439-96-5	Manganese	144			P
7439-97-6	Mercury__	0.11	B		CV
7440-02-0	Nickel___	5.5	B		P
7440-09-7	Potassium	12700			P
7782-49-2	Selenium_	4.0	U		P
7440-22-4	Silver___	3.0	U		P
7440-23-5	Sodium___	21300			P
7440-28-0	Thallium_	6.0	U		P
7440-62-2	Vanadium_	2.0	U		P
7440-66-6	Zinc_____	18.4	B		P

Color Before: YELLOW___ Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

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1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MCTT41

Lab Name: AMERICAN_ANALYTICAL_____ Contract: 68W00086__

Lab Code: AATS__ Case No.: 27981_ SAS No.: _____ SDG No.: MCTT35

Matrix (soil/water): WATER Lab Sample ID: 42769.08

Level (low/med): LOW__ Date Received: 04/22/00

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	187	B		P
7440-36-0	Antimony_	4.2	B		P
7440-38-2	Arsenic__	3.0	U		P
7440-39-3	Barium___	1640			P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium__	1.0	U		P
7440-70-2	Calcium__	14900			P
7440-47-3	Chromium_	2.0	U		P
7440-48-4	Cobalt___	3.0	B		P
7440-50-8	Copper___	5.3	B		P
7439-89-6	Iron_____	1870			P
7439-92-1	Lead_____	2.0	B		P
7439-95-4	Magnesium	4240	B		P
7439-96-5	Manganese	122			P
7439-97-6	Mercury__	0.11	B		CV
7440-02-0	Nickel___	6.1	B		P
7440-09-7	Potassium	13400			P
7782-49-2	Selenium_	4.0	U		P
7440-22-4	Silver___	3.0	U		P
7440-23-5	Sodium___	22000			P
7440-28-0	Thallium_	6.0	U		P
7440-62-2	Vanadium_	2.0	U		P
7440-66-6	Zinc_____	16.7	B		P

Color Before: YELLOW___ Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MCTT43

Lab Name: AMERICAN_ANALYTICAL_____ Contract: 68W00086__

Lab Code: AATS__ Case No.: 27981_ SAS No.: _____ SDG No.: MCTT35

Matrix (soil/water): WATER Lab Sample ID: 42769.10

Level (low/med): LOW__ Date Received: 04/22/00

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	13.0	U		P_
7440-36-0	Antimony_	3.0	U		P_
7440-38-2	Arsenic__	3.0	U		P_
7440-39-3	Barium___	1.0	U		P_
7440-41-7	Beryllium	1.0	U		P_
7440-43-9	Cadmium__	1.0	U		P_
7440-70-2	Calcium__	35.0	B		P_
7440-47-3	Chromium_	2.0	U		P_
7440-48-4	Cobalt___	2.0	U		P_
7440-50-8	Copper___	1.0	U		P_
7439-89-6	Iron____	34.9	B		P_
7439-92-1	Lead____	2.0	U		P_
7439-95-4	Magnesium	198	U		P_
7439-96-5	Manganese	1.0	U		P_
7439-97-6	Mercury__	0.10	B		CV
7440-02-0	Nickel___	2.0	U		P_
7440-09-7	Potassium	52.7	B		P_
7782-49-2	Selenium_	4.0	U		P_
7440-22-4	Silver___	3.0	U		P_
7440-23-5	Sodium___	114	B		P_
7440-28-0	Thallium_	6.0	U		P_
7440-62-2	Vanadium_	2.0	U		P_
7440-66-6	Zinc____	2.3	B		P_

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

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1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MCTT42

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 27981_ SAS No.: _____ SDG No.: MCTT42

Matrix (soil/water): WATER Lab Sample ID: 42769.09

Level (low/med): LOW__ Date Received: 04/22/00

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	16.0	U		P
7440-36-0	Antimony_	3.0	U		P
7440-38-2	Arsenic__	3.0	U		P
7440-39-3	Barium___	1.0	U		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium__	1.0	U		P
7440-70-2	Calcium__	48.1	B		P
7440-47-3	Chromium_	2.0	U		P
7440-48-4	Cobalt___	6.0	U		P
7440-50-8	Copper___	1.0	U		P
7439-89-6	Iron____	25.0	U		P
7439-92-1	Lead____	2.0	U		P
7439-95-4	Magnesium	45.6	B		P
7439-96-5	Manganese	1.0	U		P
7439-97-6	Mercury__	0.15	B		CV
7440-02-0	Nickel___	2.0	U		P
7440-09-7	Potassium	411	B		P
7782-49-2	Selenium_	4.0	U		P
7440-22-4	Silver___	3.0	U		P
7440-23-5	Sodium___	51.4	B	E	P
7440-28-0	Thallium_	6.0	U		P
7440-62-2	Vanadium_	5.0	U		P
7440-66-6	Zinc____	1.8	B		P
	Cyanide__	1.0	U		CA

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:
FEILD_QC

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MCWW00

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 27981_ SAS No.: _____ SDG No.: MCTT42

Matrix (soil/water): WATER Lab Sample ID: 42769.11

Level (low/med): LOW__ Date Received: 04/22/00

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	13.0	U		P
7440-36-0	Antimony_	3.0	U		P
7440-38-2	Arsenic__	3.0	U		P
7440-39-3	Barium___	20.7	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium__	1.0	U		P
7440-70-2	Calcium__	1930	B		P
7440-47-3	Chromium_	5.3	B		P
7440-48-4	Cobalt___	6.9	B		P
7440-50-8	Copper___	258			P
7439-89-6	Iron____	25.0	U		P
7439-92-1	Lead____	7.5			P
7439-95-4	Magnesium	964	B		P
7439-96-5	Manganese	17.5			P
7439-97-6	Mercury__	0.12	B		CV
7440-02-0	Nickel___	13.3	B		P
7440-09-7	Potassium	477	B		P
7782-49-2	Selenium_	4.0	U		P
7440-22-4	Silver___	3.0	U		P
7440-23-5	Sodium___	6860		E	P
7440-28-0	Thallium_	6.0	U		P
7440-62-2	Vanadium_	2.0	U		P
7440-66-6	Zinc____	29.3			P
	Cyanide__	1.0	U		CA

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

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1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MCWW01

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 27981_ SAS No.: _____ SDG No.: MCTT42

Matrix (soil/water): WATER Lab Sample ID: 42769.12

Level (low/med): LOW__ Date Received: 04/22/00

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	65.0	B		P
7440-36-0	Antimony_	3.0	U		P
7440-38-2	Arsenic__	3.0	U		P
7440-39-3	Barium__	10.3	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium__	1.0	U		P
7440-70-2	Calcium__	943	B		P
7440-47-3	Chromium_	2.0	U		P
7440-48-4	Cobalt___	5.7	B		P
7440-50-8	Copper___	149			P
7439-89-6	Iron____	39.4	B		P
7439-92-1	Lead____	4.6			P
7439-95-4	Magnesium	625	B		P
7439-96-5	Manganese	8.4	B		P
7439-97-6	Mercury__	0.12	B		CV
7440-02-0	Nickel___	10.7	B		P
7440-09-7	Potassium	359	B		P
7782-49-2	Selenium_	4.0	U		P
7440-22-4	Silver___	3.0	U		P
7440-23-5	Sodium___	4360	B	E	P
7440-28-0	Thallium_	6.0	U		P
7440-62-2	Vanadium_	2.0	U		P
7440-66-6	Zinc____	13.6	B		P
	Cyanide__	1.1	B		CA

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MCWW02

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 27981_ SAS No.: _____ SDG No.: MCTT42

Matrix (soil/water): WATER Lab Sample ID: 42769.13

Level (low/med): LOW__ Date Received: 04/22/00

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	30.5	B		P
7440-36-0	Antimony_	3.0	U		P
7440-38-2	Arsenic__	3.0	U		P
7440-39-3	Barium___	14.4	B		P
7440-41-7	Beryllium	1.1	B		P
7440-43-9	Cadmium__	1.0	U		P
7440-70-2	Calcium__	1160	B		P
7440-47-3	Chromium_	2.3	B		P
7440-48-4	Cobalt___	10.7	B		P
7440-50-8	Copper___	41.7			P
7439-89-6	Iron_____	179			P
7439-92-1	Lead_____	11.2			P
7439-95-4	Magnesium	553	B		P
7439-96-5	Manganese	12.9	B		P
7439-97-6	Mercury__	0.10	U		CV
7440-02-0	Nickel___	23.4	B		P
7440-09-7	Potassium	491	B		P
7782-49-2	Selenium_	4.0	U		P
7440-22-4	Silver___	3.0	U		P
7440-23-5	Sodium___	3600	B	E	P
7440-28-0	Thallium_	6.0	U		P
7440-62-2	Vanadium_	2.0	U		P
7440-66-6	Zinc_____	57.8			P
	Cyanide__	1.7	B		CA

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

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1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MCWW03

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 27981_ SAS No.: _____ SDG No.: MCTT42

Matrix (soil/water): WATER Lab Sample ID: 42769.14

Level (low/med): LOW__ Date Received: 04/22/00

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	39.0	B		P_
7440-36-0	Antimony_	3.0	U		P_
7440-38-2	Arsenic__	3.0	U		P_
7440-39-3	Barium___	13.1	B		P_
7440-41-7	Beryllium	1.0	U		P_
7440-43-9	Cadmium__	1.0	U		P_
7440-70-2	Calcium__	1000	B		P_
7440-47-3	Chromium_	2.0	U		P_
7440-48-4	Cobalt___	15.8	B		P_
7440-50-8	Copper___	26.3			P_
7439-89-6	Iron____	53.1	B		P_
7439-92-1	Lead____	2.0	B		P_
7439-95-4	Magnesium	518	B		P_
7439-96-5	Manganese	11.5	B		P_
7439-97-6	Mercury__	0.10	U		CV
7440-02-0	Nickel___	26.1	B		P_
7440-09-7	Potassium	495	B		P_
7782-49-2	Selenium_	4.0	U		P_
7440-22-4	Silver___	3.0	U		P_
7440-23-5	Sodium___	3790	B	E	P_
7440-28-0	Thallium_	6.0	U		P_
7440-62-2	Vanadium_	2.0	U		P_
7440-66-6	Zinc____	24.8			P_
	Cyanide__	1.0	U		CA

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MCWW04

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 27981_ SAS No.: _____ SDG No.: MCTT42

Matrix (soil/water): WATER Lab Sample ID: 42769.15

Level (low/med): LOW__ Date Received: 04/22/00

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	94200			P
7440-36-0	Antimony_	5.7	B		P
7440-38-2	Arsenic__	267			P
7440-39-3	Barium___	714			P
7440-41-7	Beryllium	27.5			P
7440-43-9	Cadmium__	1.0	U		P
7440-70-2	Calcium__	6930			P
7440-47-3	Chromium_	1450			P
7440-48-4	Cobalt___	194			P
7440-50-8	Copper___	424			P
7439-89-6	Iron_____	575000			P
7439-92-1	Lead_____	122			P
7439-95-4	Magnesium	13300			P
7439-96-5	Manganese	1620			P
7439-97-6	Mercury__	0.57			CV
7440-02-0	Nickel___	97.7			P
7440-09-7	Potassium	7800			P
7782-49-2	Selenium_	10.5			P
7440-22-4	Silver___	3.0	U		P
7440-23-5	Sodium___	39400		E	P
7440-28-0	Thallium_	6.0	U		P
7440-62-2	Vanadium_	1480			P
7440-66-6	Zinc_____	456			P
	Cyanide__	1.6	B		CA

Color Before: ORANGE___ Clarity Before: CLOUDY Texture: _____

Color After: YELLOW___ Clarity After: CLEAR_ Artifacts: _____

Comments:

U.S. EPA - CLP

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MCWW05

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 27981_ SAS No.: _____ SDG No.: MCTT42

Matrix (soil/water): WATER Lab Sample ID: 42769.16

Level (low/med): LOW__ Date Received: 04/22/00

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	675			P
7440-36-0	Antimony_	3.0	U		P
7440-38-2	Arsenic__	3.0	U		P
7440-39-3	Barium___	34.7	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium__	1.0	U		P
7440-70-2	Calcium__	5560			P
7440-47-3	Chromium_	4.4	B		P
7440-48-4	Cobalt___	3.9	B		P
7440-50-8	Copper___	2.1	B		P
7439-89-6	Iron_____	1440			P
7439-92-1	Lead_____	2.0	U		P
7439-95-4	Magnesium	2360	B		P
7439-96-5	Manganese	51.5			P
7439-97-6	Mercury__	0.17	B		CV
7440-02-0	Nickel___	6.5	B		P
7440-09-7	Potassium	1620	B		P
7782-49-2	Selenium_	4.0	U		P
7440-22-4	Silver___	3.0	U		P
7440-23-5	Sodium___	11400		E	P
7440-28-0	Thallium_	6.0	U		P
7440-62-2	Vanadium_	2.7	B		P
7440-66-6	Zinc_____	25.0			P
_____	Cyanide__	1.3	B		CA
_____	_____	_____			

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

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1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MCWW06

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 27981_ SAS No.: _____ SDG No.: MCTT42

Matrix (soil/water): WATER Lab Sample ID: 42769.17

Level (low/med): LOW__ Date Received: 04/22/00

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	471			P_
7440-36-0	Antimony_	3.0	U		P_
7440-38-2	Arsenic__	3.0	U		P_
7440-39-3	Barium___	49.8	B		P_
7440-41-7	Beryllium	1.0	U		P_
7440-43-9	Cadmium__	1.0	U		P_
7440-70-2	Calcium__	5050			P_
7440-47-3	Chromium_	2.0	U		P_
7440-48-4	Cobalt___	9.1	B		P_
7440-50-8	Copper___	2.2	B		P_
7439-89-6	Iron____	1220			P_
7439-92-1	Lead____	2.0	U		P_
7439-95-4	Magnesium	2110	B		P_
7439-96-5	Manganese	132			P_
7439-97-6	Mercury__	0.10	U		CV
7440-02-0	Nickel___	7.9	B		P_
7440-09-7	Potassium	1530	B		P_
7782-49-2	Selenium_	4.0	U		P_
7440-22-4	Silver___	3.0	U		P_
7440-23-5	Sodium___	13400		E	P_
7440-28-0	Thallium_	6.0	U		P_
7440-62-2	Vanadium_	2.0	U		P_
7440-66-6	Zinc____	28.2			P_
_____	Cyanide__	1.0	B		CA
_____	_____	_____			

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MCWW07

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 27981_ SAS No.: _____ SDG No.: MCTT42

Matrix (soil/water): WATER Lab Sample ID: 42769.18

Level (low/med): LOW__ Date Received: 04/22/00

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	231			P
7440-36-0	Antimony_	3.0	U		P
7440-38-2	Arsenic__	3.4	B		P
7440-39-3	Barium___	57.4	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium__	1.0	U		P
7440-70-2	Calcium__	3700	B		P
7440-47-3	Chromium_	2.0	U		P
7440-48-4	Cobalt___	9.4	B		P
7440-50-8	Copper___	1.0	U		P
7439-89-6	Iron_____	10700			P
7439-92-1	Lead_____	2.3	B		P
7439-95-4	Magnesium	1620	B		P
7439-96-5	Manganese	276			P
7439-97-6	Mercury__	0.12	B		CV
7440-02-0	Nickel___	5.0	B		P
7440-09-7	Potassium	1150	B		P
7782-49-2	Selenium_	4.0	U		P
7440-22-4	Silver___	3.0	U		P
7440-23-5	Sodium___	7620		E	P
7440-28-0	Thallium_	6.0	U		P
7440-62-2	Vanadium_	2.0	U		P
7440-66-6	Zinc_____	27.1			P
_____	Cyanide__	1.0	B		CA
_____	_____	_____			

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MCWW08

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 27981_ SAS No.: _____ SDG No.: MCTT42

Matrix (soil/water): WATER Lab Sample ID: 42769.19

Level (low/med): LOW__ Date Received: 04/22/00

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	280			P
7440-36-0	Antimony_	3.0	U		P
7440-38-2	Arsenic__	3.0	U		P
7440-39-3	Barium___	1590			P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium__	1.0	U		P
7440-70-2	Calcium__	14500			P
7440-47-3	Chromium_	2.0	U		P
7440-48-4	Cobalt___	2.1	B		P
7440-50-8	Copper___	4.5	B		P
7439-89-6	Iron____	2210			P
7439-92-1	Lead____	2.7	B		P
7439-95-4	Magnesium	4230	B		P
7439-96-5	Manganese	148			P
7439-97-6	Mercury__	0.14	B		CV
7440-02-0	Nickel___	5.3	B		P
7440-09-7	Potassium	12300			P
7782-49-2	Selenium_	4.0	U		P
7440-22-4	Silver___	3.0	U		P
7440-23-5	Sodium___	21100		E	P
7440-28-0	Thallium_	6.0	U		P
7440-62-2	Vanadium_	2.0	U		P
7440-66-6	Zinc____	17.8	B		P
	Cyanide__	2.2	B		CA

Color Before: YELLOW___ Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MCWW09

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 27981_ SAS No.: _____ SDG No.: MCTT42

Matrix (soil/water): WATER Lab Sample ID: 42769.20

Level (low/med): LOW__ Date Received: 04/22/00

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	302			P
7440-36-0	Antimony_	3.0	U		P
7440-38-2	Arsenic__	3.0	U		P
7440-39-3	Barium___	1660			P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium__	1.0	U		P
7440-70-2	Calcium__	14600			P
7440-47-3	Chromium_	2.0	U		P
7440-48-4	Cobalt___	6.0	U		P
7440-50-8	Copper___	4.9	B		P
7439-89-6	Iron_____	2390			P
7439-92-1	Lead_____	2.1	B		P
7439-95-4	Magnesium	4000	B		P
7439-96-5	Manganese	152			P
7439-97-6	Mercury__	0.10	B		CV
7440-02-0	Nickel___	5.5	B		P
7440-09-7	Potassium	14000			P
7782-49-2	Selenium_	4.0	U		P
7440-22-4	Silver___	5.0	B		P
7440-23-5	Sodium___	21500		E	P
7440-28-0	Thallium_	6.0	U		P
7440-62-2	Vanadium_	5.0	U		P
7440-66-6	Zinc_____	17.1	B		P
	Cyanide__	1.7	B		CA

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

APPENDIX D

Support Documentation

EPA United States Environmental Protection Agency
Contract Laboratory Program

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

SAS No. (if applicable):

Case No.: 27981

1. Project Code	Account Code	2. Region No.	Sampling Co.	4. Date Shipped	Carrier
NF	2T5A03N9ZZ	III	MDE	4/21/2000	FedEx

Regional Information: —

Sampler (Name): [redacted]

Airbill Number: 819742449269

Non-Superfund Program: —

Sampler Signature: [redacted]

5. Ship To: American Analytical & Technical Services, 1700 W. Albany, Ste. C, Broken Arrow, OK 74012, (918) 251-0545, ATTN: [redacted]

Site Name: New Jersey Fireworks

City, State: Elkton, MD

Site Spill ID: E19

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

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

7. Preservative (Enter in Column D): 1. HCl 2. HNO3 3. NaOH 4. H_2SO_4 5. $K_2CR_2O_7$ 6. Ice only 7. Other (specify in Column D) N. Not preserved

CLP Sample Numbers (from labels)	A Matrix (from Box 6) Other:	B Conc.: Low Med High	C Sample Type: Comp./Grab	D Preservative (from Box 7) Other:	E – RAS Analysis: Diss. Metals	Total Metals	Cyanide	Low only: NO_2/NO_3	Low only: Fluoride	High only: pH	High only: Conduct.	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Corresponding CLP Organic Sample No.	J Sampler Initials	K Field QC Qualifier (B = Blank, S = Spike, D = Duplicate, R = Rinsate, PE = Perform. Eval., — = Not a QC Sample)
MCWW 20	5	L	G	6		X	X					3-3031331	S-6	4/21/00 9:25	CSL 65	PR	—
MCWW 21	5	L	G	6		X	X					3-3031332	S-7	4/21/00 9:50	CSL 66	PR	—
MCWW 22	5	L	G	6		X	X					3-3031333	S-8	4/21/00 9:40	CSL 67	PR	—
MCWW 23	5	L	G	6		X	X					3-3031335	S-9	4/21/00 9:45	CSL 68	PR	—
MCTT 34	5	L	G	6		X	X					3-3031334	S-10	4/21/00 9:00	CSL 69	PR	D of MCWW18
MCTT 35	2	L	G	2,6	X							3-3031336	GW-4DM	4/20/00 ~~11:05~~ 10:45		PR	—
MCTT 36	2	L	G	2,6	X							3-3031337	GW-5DM	4/21/00 10:15	— (DU 5/24/00)	PR	—
MCTT 37	1	L	G	2,6	X							3-3031338	SW-1DM	4/20/00 12:00	—	PR	—
MCTT 38	1	L	G	2,6	X							3-3031339	SW-2DM	4/20/00 10:00	—	PR	—
MCTT 39	1	L	G	2,6	X							3-3031340 to 3-3031341	SW-3DM	4/20/00 10:45	—	PR	S

Rec'd 5/1/00 Rep MCTT 35

Shipment for Case Complete? (Y/N)	Page	Sample(s) to be Used for Laboratory QC	Additional Sampler Signatures	Chain of Custody Seal Number(s)
Y	3 of 4	Do QC on MCTT 39	[signature]	

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[signature]	4/21/00 1700				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks Is custody seal intact? Y/N/none	

A21-012-5 REV 3/93

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

EPA Form 9110-1

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

356597

EPA United States Environmental Protection Agency Contract Laboratory Program

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

SAS No. (if applicable):

Case No.: 27981

1. Project Code	Account Code	2. Region No.	Sampling Co.	4. Date Shipped	Carrier
NF	2T5A03N922	III	MDE	4/21/2000	FedEx

Regional Information: —

Sampler (Name): [redacted]

Airbill Number: 8197424 9269

Non-Superfund Program: —

Sampler Signature: [redacted]

5. Ship To: American Analytical & Technical Services, 1700 W. Albany, Ste. C, Broken Arrow, OK 74012, (918) 251-0545, ATTN: [redacted]

Site Name: New Jersey Fireworks

City, State: Elkton, MD

Site Spill ID: E19

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

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

7. Preservative (Enter in Column D): 1. HCl 2. HNO3 3. NaOH 4. H_2SO_4 5. $K_2CR_2O_7$ 6. Ice only 7. Other (specify in Column D) N. Not preserved

CLP Sample Numbers (from labels)	A Matrix (from Box 6)	B Conc. Low Med High	C Sample Type: Comp./Grab	D Preservative (from Box 7)	E – RAS Analysis: Diss. Metals	Total Metals	Cyanide	NO_2/NO_3 (Low only)	Fluoride (Low only)	pH (High only)	Conduct. (High only)	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Corresponding CLP Organic Sample No.	J Sampler Initials	K Field QC Qualifier (B = Blank, S = Spike, D = Duplicate, R = Rinsate, PE = Perform. Eval., — = Not a QC Sample)
MCWW16	5	L	G	6		X	X					3-3031321	SED-1	4/20/00 12:00	CSL 55	PR	—
MCWW11	5	L	G	6		X	X					3-3031322	SED-2	4/20/00 10:00	CSL 56	PR	—
MCWW12	5	L	G	6		X	X					3-3031323	SED-3	4/20/00 9:45	CSL 57	PR	—
MCWW13	5	L	G	6		X	X					3-3031324	SED-4	4/20/00 11:05	CSL 58	PR	—
~~MCWW14~~	~~5~~	~~L~~	~~G~~	~~6~~		~~X~~	~~X~~					~~3-3031325~~	~~SED-5~~		~~CSL 59~~		~~Do not analyze~~
MCWW15	5	L	G	6		X	X					3-3031326	S-1	4/20/00 12:45	CSL 60	PR	—
MCWW16	5	L	G	6		X	X					3-3031327	S-2	4/21/00 8:45	CSL 61	PR	—
MCWW17	5	L	G	6		X	X					3-3031328	S-3	4/21/00 8:30	CSL 62	PR	S
MCWW18	5	L	G	6		X	X					3-3031329	S-4	4/21/00 9:00	CSL 63	PR	—
MCWW19	5	L	G	6		X	X					3-3031330	S-5	4/20/00 10:05	CSL 64	PR	

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

Page: 2 of 4

Sample(s) to be Used for Laboratory QC: Do QC on MCWW17

Additional Sampler Signatures: [illegible]

Chain of Custody Seal Number(s):

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[signature]	4/21/00 1500				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks: Is custody seal intact? Y/N/none	

A21-012-5 REV. 3/93

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EPA Form 9110-1

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

356596

EPA United States Environmental Protection Agency Contract Laboratory Program

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

SAS No. (if applicable):

Case No.: 27981

1. Project Code: NF
Account Code: 2T5A03N922
2. Region No.: III
Sampling Co.: MDE
4. Date Shipped: 4/21/2000
Carrier: FedEx

Regional Information: —

Sampler (Name): [redacted]

Airbill Number: 8197424492 69

Non-Superfund Program: —

Sampler Signature: [redacted]

5. Ship To: American Analytical & Technical Services, 1700 W. Albany, Ste. C, Broken Arrow, OK 74012, (918) 251-0545
ATTN: [redacted]

Site Name: New Jersey Fireworks

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

City, State: Elkton, MD
Site Spill ID: E19

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

7. Preservative (Enter in Column D): 1. HCl 2. HNO3 3. NaOH 4. H_2SO_4 5. $K_2CR_2O_7$ 6. Ice only 7. Other (specify in Column D) N. Not preserved

CLP Sample Numbers (from labels)	A Matrix (from Box 6) / Other:	B Conc.: Low Med High	C Sample Type: Comp./Grab	D Preservative (from Box 7) / Other:	E – RAS Analysis: Diss. Metals	Total Metals	Cyanide	Low only: NO_2/NO_3	Fluoride	High only: pH	Conduct.	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Corresponding CLP Organic Sample No.	J Sampler Initials	K Field QC Qualifier (B = Blank, S = Spike, D = Duplicate, R = Rinsate, PE = Perform. Eval., — = Not a QC Sample)
												3-2223078 to 3-2223079					
MCWW00	2	L	G	2,3,6		X	X					3-3031301 to 3-3031302	GW-1	4/20/00 9:30	CSL 45	PR	S
MCWW01	2	L	G	2,3,6		X	X					3-3031303 to 3-3031304	GW-2	4/20/00 10:30	CSL 46	PR	—
MCWW02	2	L	G	2,3,6		X	X					3-3031305 to 3-3031306	GW-3	4/20/00 11:15	CSL 47	PR	—
MCWW03	2	L	G	2,3,6		X	X					3-3031307 to 3-3031308	GW-4	4/20/00 10:45	CSL 48	PR	—
MCWW04	2	L	G	2,3,6		X	X					3-3031309 to 3-3031310	GW-5	4/21/00 10:15	CSL 49	PR	—
MCWW05	1	L	G	2,3,6		X	X					3-3031311 to 3-3031312	SW-1	4/20/00 12:00	CSL 50	PR	—
MCWW06	1	L	G	2,3,6		X	X					3-3031313 to 3-3031314	SW-2	4/20/00 10:00	CSL 51	PR	—
MCWW07	1	L	G	2,3,6		X	X					3-3031315 to 3-3031316	SW-3	4/20/00 09:45	CSL 52	PR	—
MCWW08	1	L	G	2,3,6		X	X					3-3031317 to 3-3031318	SW-4	4/20/00 11:05	CSL 53	PR	—
MCWW09	1	L	G	2,3,6		X	X					3-3031319 to 3-3031320	SW-5	4/20/00 13:00	CSL 54	PR	Dup of MCWW08

Shipment for Case Complete? (Y/N): Y
Page 1 of 4
Sample(s) to be Used for Laboratory QC: Do QC on CSL 45 MCTT42
Additional Sampler Signatures: [illegible]
Chain of Custody Seal Number(s):

rec'd 5/10/00

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[signature]	4/21/00 1500				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks Is custody seal intact? Y/N/none	

A21-012-5 REV. 3/93

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EPA Form 9110-1

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

356595

EPA United States Environmental Protection Agency
Contract Laboratory Program

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

SAS No. (if applicable):

Case No.: 27981

1. Project Code	Account Code	2. Region No.	Sampling Co.	4. Date Shipped	Carrier
NF	2TSA03N9ZZ	III	MDE	4/21/2000	FedEx

Regional Information: —

Sampler (Name): [redacted]

Airbill Number: 819742449269

Non-Superfund Program: —

Sampler Signature: [redacted]

5. Ship To: American Analytical & Technical Services, 1700 W. Albany, Ste. C, Broken Arrow, OK 74012, (918) 251-0545

ATTN: [redacted]

Site Name: New Jersey Fireworks

City, State: Elkton, MD

Site Spill ID: E19

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

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

7. Preservative (Enter in Column D): 1. HCl 2. HNO3 3. NaOH 4. H_2SO_4 5. $K_2CR_2O_7$ 6. Ice only 7. Other (specify in Column D) N. Not preserved

CLP Sample Numbers (from labels)	A Matrix (from Box 6) Other:	B Conc.: Low Med High	C Sample Type: Comp./Grab	D Preservative (from Box 7) Other:	E – RAS Analysis: Diss. Metals	Total Metals	Cyanide	Low only: NO_2/NO_3	Low only: Fluoride	High only: pH	High only: Conduct.	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Corresponding CLP Organic Sample No.	J Sampler Initials	K Field QC Qualifier (B = Blank S = Spike D = Duplicate R = Rinsate PE = Perform. Eval. — = Not a QC Sample)
MCTT40	1	L	G	2,6	X							3-3031342	SW-4DM	4/20/00 11:05	—	PR	—
MCTT41	1	L	G	2,6	X							3-3031343	SW-5DM	4/20/00 13:00	—	PR	D of MCTT40 ~~MCTT38~~
MCTT42	4	L	G	2,3,6		X	X					3-3031344 to 3-3031345	FB-1	4/20/00 10:00	CSL70	[illegible]	B
MCTT43	4	L	G	2,6	X							3-3031346	FB-1DM	4/20/00 10:00	—	[illegible]	B
rec'd 5/4/00 [illegible]																	
		MCTT35															

[illegible] 4/20/00

Shipment for Case Complete? (Y/N)	Page	Sample(s) to be Used for Laboratory QC	Additional Sampler Signatures	Chain of Custody Seal Number(s)
Y	4 of 4		[signature]	

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[signature]	4/21/00 1700				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks Is custody seal intact? Y/N/none	

A21-012-5 REV. 3/93

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

EPA Form 9110-1

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

356598

Validator

Maryland Department of the Environment
2500 Broening Highway
Baltimore, MD 21224
May 19, 2000

Mr. John Kwedar
U.S. Environmental Protection Agency
Region III
Environmental Science Center
701 Mapes Road
Fort Meade, MD 20755

Re: Paperwork Error on Region III Case #27981
Federal Express Shipment on April 21, 2000, Airbill #819742449269

Dear Mr. Kwedar:

On April 21, 2000, the Inorganic Traffic Report and Chain of Custody Record (Form 356597) had the incorrect time recorded for CLP Sample Number MCTT35. The corrected time should read 1045.

Sincerely,

Alan W. Fong

Alan W. Fong
Project Manager

cc Karla Mihalak
William Wentworth

SDG MCTT34

AMERICAN ANALYTICAL & TECHNICAL SERVICES, INC.
1700 West Albany / Broken Arrow, Oklahoma 74012 / Office (918) 251-2858 / Fax (918) 251-2599

SDG NARRATIVE

CONTRACT: 68W00086 **DATE:** May 8, 2000
CASE: 27981 **SOW NO.:** ILM04.1
SDG:MCTT34 **EPISODE NO.:** 42769

INORGANIC METAL FRACTION:

14 soil samples plus one prep blank, one lab control, one matrix spike and one matrix spike duplicate were submitted for ICP and Hg analysis. No major problems occurred during the digestion or analysis of these samples. The cooler temperatures at time of receipt were at 1.2,2.3 and 1.9degrees Celsius. The sample's analyses were completed according to the following:

SWL SOP #	Method SOP is based
SWL-IN-200	ILM03.0/04.0 (digestion for ICP analysis)
SWL-IN-202	ILM03.0/04.0 (analysis of Hg by cold vapor)

Initial and Continuing Calibration Checks: No problems.

Initial and Continuing Calibration Blanks: The following elements showed low level concentrations below the Contract Required Detection Limit in the Calibration Blanks: As and Mg
No action required.

Linearity near the CRDL: No problems

Preparation Blanks: The following elements showed low level concentrations below the Contract Required Detection Limit in the Preparation Blank: Al, Ca, Pb, Mg, Na and Cn
No action required.

Lab Control Spikes: No problems.

Matrix Spike: No problems

Duplicate: The following element was outside the control limits of 0-20% RPD: Pb
All associated samples were flagged with an "*" on Form I's. No action required.

Serial Dilution: No problems

Sincerely,

[redacted]

Operations Manager

U.S. EPA - CLP

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

1

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 27981 SAS No.: _____ SDG No.:MCTT34

SOW No.: ILM04.01 5/8/00

EPA Sample No.	Lab Sample ID
MCTT34	42769.01
MCWW10	42769.21
MCWW11	42769.22
MCWW12	42769.23
MCWW13	42769.24
MCWW15	42769.25
MCWW16	42769.26
MCWW17	42769.27
MCWW17D	42769.27D
MCWW17S	42769.27S
MCWW18	42769.28
MCWW19	42769.29
MCWW20	42769.30
MCWW21	42769.31
MCWW22	42769.32
MCWW23	42769.33

Were ICP interelement corrections applied ? Yes/No YES

Were ICP background corrections applied ? Yes/No YES
If yes - were raw data generated before application of background corrections ? Yes/No NO_

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: [redacted] Name: [redacted]

Date: May 8, 2000 Title: Operations Manager

3
BLANKS

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 27981_ SAS No.: _____ SDG No.: MCTT34

Preparation Blank Matrix (soil/water): SOIL_

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum	9.0	U	9.0	U	9.0	U	9.0	U	2.51	B	P
Antimony	3.0	U	3.0	U	3.0	U	3.0	U	0.60	U	P
Arsenic	2.0	U	2.0	U	2.5	B	2.0	U	0.40	U	P
Barium	1.0	U	1.0	U	1.0	U	1.0	U	0.20	U	P
Beryllium	1.0	U	1.0	U	1.0	U	1.0	U	0.20	U	P
Cadmium	1.0	U	1.0	U	1.0	U	1.0	U	0.20	U	P
Calcium	7.0	U	7.0	U	7.0	U	7.0	U	6.04	B	P
Chromium	1.0	U	1.0	U	1.0	U	1.0	U	0.20	U	P
Cobalt	6.0	U	6.0	U	6.0	U	6.0	U	1.20	U	P
Copper	1.0	U	1.0	U	1.0	U	1.0	U	0.20	U	P
Iron	7.0	U	7.0	U	7.0	U	7.0	U	1.40	U	P
Lead	1.0	U	1.0	U	1.0	U	1.0	U	0.25	B	P
Magnesium	6.0	U	9.2	B	6.0	U	6.0	U	2.52	B	P
Manganese	1.0	U	1.0	U	1.0	U	1.0	U	0.20	U	P
Mercury	0.1	U	0.1	U	0.1	U	0.1	U	0.05	U	CV
Nickel	1.0	U	1.0	U	1.0	U	1.0	U	0.20	U	P
Potassium	27.0	U	27.0	U	27.0	U	27.0	U	5.40	U	P
Selenium	3.0	U	3.0	U	3.0	U	3.0	U	0.60	U	P
Silver	1.0	U	1.0	U	1.0	U	1.0	U	0.20	U	P
Sodium	6.0	U	6.0	U	6.0	U	6.0	U	1.39	B	P
Thallium	2.0	U	2.0	U	2.0	U	2.0	U	0.40	U	P
Vanadium	1.0	U	1.0	U	1.0	U	1.0	U	0.20	U	P
Zinc	3.0	U	3.0	U	3.0	U	3.0	U	0.60	U	P
Cyanide	1.0	U	1.0	U	1.0	U	1.0	U	0.07	B	CA

3
BLANKS

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 27981_ SAS No.: _____ SDG No.: MCTT34

Preparation Blank Matrix (soil/water): _____

Preparation Blank Concentration Units (ug/L or mg/kg): _____

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum			9.0	U	9.0	U					P
Antimony			3.0	U	3.0	U					P
Arsenic			2.0	U	2.0	U					P
Barium			1.0	U	1.0	U					P
Beryllium			1.0	U	1.0	U					P
Cadmium			1.0	U	1.0	U					P
Calcium			7.0	U	7.0	U					P
Chromium			1.0	U	1.0	U					P
Cobalt			6.0	U							P
Copper			1.0	U	1.0	U					P
Iron			7.0	U	7.0	U					P
Lead			1.0	U	1.0	U					P
Magnesium			8.0	B	9.2	B					P
Manganese			1.0	U	1.0	U					P
Mercury			0.1	U	0.1	U	0.1	U			CV
Nickel			1.0	U	1.0	U					P
Potassium			27.0	U	27.0	U					P
Selenium			3.0	U	3.0	U					P
Silver			1.0	U	1.0	U					P
Sodium			6.0	U	6.0	U					P
Thallium			2.0	U	2.0	U					P
Vanadium			1.0	U	1.0	U					P
Zinc			3.0	U	3.0	U					P
Cyanide			1.0	U							CA

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2B
CRDL STANDARD FOR AA AND ICP

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 27981_ SAS No.: _____ SDG No.: MCTT34

AA CRDL Standard Source: PLASMACHEM__

ICP CRDL Standard Source: IN.VEN._____

Concentration Units: ug/L

Analyte	CRDL Standard for AA True	Found	%R	CRDL Standard for ICP True	Initial Found	%R	Final Found	%R
Aluminum								
Antimony				120.0	122.98	102.5	124.14	103.4
Arsenic				20.0	21.89	109.4	21.66	108.3
Barium								
Beryllium				10.0	10.08	100.8	10.04	100.4
Cadmium				10.0	10.25	102.5	10.38	103.8
Calcium								
Chromium				20.0	20.35	101.7	20.82	104.1
Cobalt								
Copper				50.0	51.89	103.8	52.82	105.6
Iron								
Lead				6.0	6.35	105.8	6.77	112.8
Magnesium								
Manganese				30.0	30.68	102.3	30.80	102.7
Mercury	0.2	0.21	105.0					
Nickel				80.0	81.15	101.4	78.99	98.7
Potassium				10000.0	10338.29	103.4	10067.86	100.7
Selenium				10.0	8.83	88.3	9.40	94.0
Silver				20.0	20.65	103.2	21.04	105.2
Sodium				10000.0	10275.17	102.8	10434.43	104.3
Thallium				20.0	21.13	105.6	21.80	109.0
Vanadium				100.0	102.69	102.7	103.06	103.1
Zinc								

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2B
CRDL STANDARD FOR AA AND ICP

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 27981_ SAS No.: _____ SDG No.: MCTT34

AA CRDL Standard Source: PLASMACHEM__

ICP CRDL Standard Source: IN.VEN._____

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
	True	Found	%R	True	Initial Found	%R	Final Found	%R
Aluminum								
Antimony				120.0			124.96	104.1
Arsenic				20.0			22.36	111.8
Barium								
Beryllium				10.0			10.26	102.6
Cadmium				10.0			10.19	101.9
Calcium								
Chromium				20.0			21.11	105.5
Cobalt								
Copper				50.0			54.05	108.1
Iron								
Lead				6.0			6.74	112.3
Magnesium								
Manganese				30.0			31.24	104.1
Mercury								
Nickel				80.0			78.39	98.0
Potassium				10000.0			10043.66	100.4
Selenium				10.0			8.75	87.5
Silver				20.0			20.90	104.5
Sodium				10000.0			10606.84	106.1
Thallium				20.0			21.88	109.4
Vanadium				100.0			104.67	104.7
Zinc								

2B
CRDL STANDARD FOR AA AND ICP

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 27981_ SAS No.: _____ SDG No.: MCTT34

AA CRDL Standard Source: _____

ICP CRDL Standard Source: IN.VEN._____

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
					Initial		Final	
	True	Found	%R	True	Found	%R	Found	%R
Aluminum								
Antimony								
Arsenic								
Barium								
Beryllium								
Cadmium								
Calcium								
Chromium								
Cobalt								
Copper								
Iron								
Lead								
Magnesium								
Manganese								
Mercury								
Nickel								
Potassium								
Selenium								
Silver								
Sodium								
Thallium								
Vanadium								
Zinc				40.0	39.43	98.6	40.62	101.5

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2B
CRDL STANDARD FOR AA AND ICP

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 27981_ SAS No.: _____ SDG No.: MCTT34

AA CRDL Standard Source: _____

ICP CRDL Standard Source: IN.VEN._____

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
	True	Found	%R	True	Initial Found	%R	Final Found	%R
Aluminum								
Antimony								
Arsenic								
Barium								
Beryllium								
Cadmium								
Calcium								
Chromium								
Cobalt								
Copper								
Iron								
Lead								
Magnesium								
Manganese								
Mercury								
Nickel								
Potassium								
Selenium								
Silver								
Sodium								
Thallium								
Vanadium								
Zinc				40.0			41.49	103.7

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2B
CRDL STANDARD FOR AA AND ICP

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 27981_ SAS No.: _____ SDG No.: MCTT34

AA CRDL Standard Source: _____

ICP CRDL Standard Source: IN.VEN._____

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
					Initial		Final	
	True	Found	%R	True	Found	%R	Found	%R
Aluminum								
Antimony								
Arsenic								
Barium								
Beryllium								
Cadmium								
Calcium								
Chromium								
Cobalt				100.0	96.16	96.2	96.15	96.1
Copper								
Iron								
Lead								
Magnesium								
Manganese								
Mercury								
Nickel								
Potassium								
Selenium								
Silver								
Sodium								
Thallium								
Vanadium								
Zinc								

2B
CRDL STANDARD FOR AA AND ICP

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 27981_ SAS No.: _____ SDG No.: MCTT34

AA CRDL Standard Source: _____

ICP CRDL Standard Source: IN.VEN._____

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
					Initial		Final	
	True	Found	%R	True	Found	%R	Found	%R
Aluminum_								
Antimony_								
Arsenic__								
Barium___								
Beryllium								
Cadmium__								
Calcium__								
Chromium_								
Cobalt___				100.0			94.22	94.2
Copper___								
Iron_____								
Lead_____								
Magnesium								
Manganese								
Mercury__								
Nickel___								
Potassium								
Selenium_								
Silver___								
Sodium___								
Thallium_								
Vanadium_								
Zinc_____								

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6
DUPLICATES

EPA SAMPLE NO.

MCWW17D

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 27981_ SAS No.: _____ SDG No.: MCTT34

Matrix (soil/water): SOIL_ Level (low/med): _LOW__

% Solids for Sample: _92.6 % Solids for Duplicate: _100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum		1857.1907		1584.2847		15.9		P
Antimony		0.6352	U	0.6352	U			P
Arsenic	2.1175	4.0431		3.1898		23.6		P
Barium		10.3049	B	9.4878	B	8.3		P
Beryllium		0.2117	U	0.2117	U			P
Cadmium		0.2117	U	0.2117	U			P
Calcium		138.1940	B	152.7407	B	10.0		P
Chromium		25.4932		21.2243		18.3		P
Cobalt		4.2890	B	3.3592	B	24.3		P
Copper	5.2937	12.2314		10.3966		16.2		P
Iron		15514.3089		13323.4540		15.2		P
Lead	0.6352	1.6876		2.9751		55.2	*	P
Magnesium		77.9664	B	75.0517	B	3.8		P
Manganese		47.9596		46.1199		3.9		P
Mercury		0.0530	B	0.0586	B	10.0		CV
Nickel		1.8409	B	1.7793	B	3.4		P
Potassium		72.0019	B	69.0171	B	4.2		P
Selenium		0.6352	U	0.6352	U			P
Silver		0.2117	U	0.2117	U			P
Sodium		316.1462	B	295.0246	B	6.9		P
Thallium	2.1175	2.7125		2.2884		17.0		P
Vanadium	10.5874	12.9458		10.9662		16.6		P
Zinc	4.2350	11.1877		11.4422		2.2		P
Cyanide		0.0524	U	0.0753	B	200.0		CA

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 27981_ SAS No.: _____ SDG No.: MCTT34

Initial Calibration Source: EPA-LV_____

Continuing Calibration Source: IN.VEN._____

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Aluminum	782.4	826.40	105.6	5000.0	5249.38	105.0	5273.00	105.5	P
Antimony	970.0	1044.77	107.7	500.0	518.88	103.8	520.34	104.1	P
Arsenic	50.9	52.35	102.8	500.0	510.35	102.1	516.91	103.4	P
Barium	803.6	827.79	103.0	500.0	511.32	102.3	518.17	103.6	P
Beryllium	190.4	193.44	101.6	500.0	502.12	100.4	506.72	101.3	P
Cadmium	303.7	299.88	98.7	500.0	503.62	100.7	504.64	100.9	P
Calcium	20284.0	20222.41	99.7	5000.0	5270.29	105.4	5304.39	106.1	P
Chromium	188.4	195.98	104.0	500.0	503.46	100.7	508.73	101.7	P
Cobalt	208.0	211.97	101.9	2000.0	2013.84	100.7	2009.69	100.5	P
Copper	198.8	206.38	103.8	500.0	508.08	101.6	514.51	102.9	P
Iron	794.0	840.99	105.9	5000.0	5323.69	106.5	5410.35	108.2	P
Lead	2074.0	2107.95	101.6	500.0	502.57	100.5	503.94	100.8	P
Magnesium	9835.2	10053.91	102.2	5000.0	5271.85	105.4	5334.94	106.7	P
Manganese	196.4	199.61	101.6	500.0	508.40	101.7	512.49	102.5	P
Mercury	4.1	3.88	94.6	5.0	5.01	100.2	4.72	94.4	CV
Nickel	198.8	199.56	100.4	500.0	499.67	99.9	493.98	98.8	P
Potassium	19841.0	19941.37	100.5	5000.0	5301.74	106.0	5321.45	106.4	P
Selenium	50.7	48.76	96.2	500.0	501.98	100.4	503.73	100.7	P
Silver	297.9	305.32	102.5	500.0	519.44	103.9	524.90	105.0	P
Sodium	19514.0	18934.47	97.0	5000.0	5402.86	108.1	5511.49	110.2	P
Thallium	98.9	104.82	106.0	500.0	516.79	103.4	524.24	104.8	P
Vanadium	196.8	200.40	101.8	500.0	502.48	100.5	507.17	101.4	P
Zinc	1204.8	1184.04	98.3	500.0	504.70	100.9	518.79	103.8	P
Cyanide	90.0	87.81	97.6	100.0	102.47	102.5	103.68	103.7	CA

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 27981_ SAS No.: _____ SDG No.: MCTT34

Initial Calibration Source: EPA-LV_____

Continuing Calibration Source: IN.VEN._____

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	CCV4 Found	CCV4 %R(1)	M
Aluminum				5000.0	5264.67	105.3	5280.74	105.6	P
Antimony				500.0	521.19	104.2	522.34	104.5	P
Arsenic				500.0	511.24	102.2	515.15	103.0	P
Barium				500.0	513.95	102.8	516.72	103.3	P
Beryllium				500.0	507.54	101.5	512.35	102.5	P
Cadmium				500.0	498.94	99.8	500.02	100.0	P
Calcium				5000.0	5299.76	106.0	5315.60	106.3	P
Chromium				500.0	507.60	101.5	510.73	102.1	P
Cobalt				2000.0	2030.44	101.5	1920.85	96.0	P
Copper				500.0	511.84	102.4	518.23	103.6	P
Iron				5000.0	5411.47	108.2	5457.02	109.1	P
Lead				500.0	501.39	100.3	504.03	100.8	P
Magnesium				5000.0	5330.35	106.6	5378.53	107.6	P
Manganese				500.0	510.96	102.2	515.55	103.1	P
Mercury				5.0	4.75	95.0	4.65	93.0	CV
Nickel				500.0	482.18	96.4	480.58	96.1	P
Potassium				5000.0	5173.14	103.5	5117.88	102.4	P
Selenium				500.0	500.93	100.2	502.14	100.4	P
Silver				500.0	522.44	104.5	524.97	105.0	P
Sodium				5000.0	5464.32	109.3	5503.76	110.1	P
Thallium				500.0	522.81	104.6	527.70	105.5	P
Vanadium				500.0	504.30	100.9	507.80	101.6	P
Zinc				500.0	526.28	105.3	517.80	103.6	P
Cyanide				100.0	104.71	104.7	102.27	102.3	CA

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 27981_ SAS No.: _____ SDG No.: MCTT34

Initial Calibration Source: EPA-LV_____

Continuing Calibration Source: IN.VEN._____

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Aluminum				5000.0	5282.42	105.6			P
Antimony				500.0	520.86	104.2			P
Arsenic				500.0	511.24	102.2			P
Barium				500.0	511.66	102.3			P
Beryllium				500.0	511.04	102.2			P
Cadmium				500.0	495.68	99.1			P
Calcium				5000.0	5314.38	106.3			P
Chromium				500.0	508.22	101.6			P
Cobalt									NR
Copper				500.0	514.26	102.9			P
Iron				5000.0	5445.29	108.9			P
Lead				500.0	500.64	100.1			P
Magnesium				5000.0	5369.35	107.4			P
Manganese				500.0	513.28	102.7			P
Mercury				5.0	4.56	91.2	4.42	88.4	CV
Nickel				500.0	475.11	95.0			P
Potassium				5000.0	5019.96	100.4			P
Selenium				500.0	501.02	100.2			P
Silver				500.0	520.81	104.2			P
Sodium				5000.0	5443.98	108.9			P
Thallium				500.0	524.81	105.0			P
Vanadium				500.0	504.75	100.9			P
Zinc				500.0	530.73	106.1			P
Cyanide									NR

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

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ANALYSIS RUN LOG

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 27981_ SAS No.: _____ SDG No.:MCTT34

Instrument ID Number: TJA ET2_____ Method: P_

Start Date: 04/29/00 End Date: 04/30/00

EPA Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.00	1955		X	X	X	X	X	X	X	X	_	X	X	X	X	X	_	X	X	X	X	X	X	X	_	_
S	1.00	2001		X	X	X	X	X	X	X	X	_	X	X	X	X	X	_	X	X	X	X	X	X	X	_	_
ICV	1.00	2006		X	X	X	X	X	X	X	X	_	X	X	X	X	X	_	X	X	X	X	X	X	X	_	_
ICB	1.00	2012		X	X	X	X	X	X	X	X	_	X	X	X	X	X	_	X	X	X	X	X	X	X	_	_
CRI	1.00	2018			X	X	_	X	X	_	X	_	X	_	X	_	X	_	X	X	X	X	X	X	X	_	_
ICSA	1.00	2023		X	X	X	X	X	X	X	X	_	X	X	X	X	X	_	X	X	X	X	X	X	X	_	_
ICSAB	1.00	2038		X	X	X	X	X	X	X	X	_	X	X	X	X	X	_	X	X	X	X	X	X	X	_	_
CCV	1.00	2044		X	X	X	X	X	X	X	X	_	X	X	X	X	X	_	X	X	X	X	X	X	X	_	_
CCB	1.00	2049		X	X	X	X	X	X	X	X	_	X	X	X	X	X	_	X	X	X	X	X	X	X	_	_
PBS	1.00	2055		X	X	X	X	X	X	X	X	_	X	X	X	X	X	_	X	X	X	X	X	X	X	_	_
LCSS	1.00	2100		X	X	X	X	X	X	_	X	_	X	X	X	X	X	_	X	X	X	X	X	X	X	_	_
LCSS	5.00	2106								X		_						_								_	_
MCTT34	1.00	2111		X	X	X	X	X	X	X	X	_	X	X	X	X	X	_	X	X	X	X	X	X	X	_	_
MCWW10	1.00	2117		X	X	X	X	X	X	X	X	_	X	X	X	X	X	_	X	X	X	X	X	X	X	_	_
MCWW11	1.00	2122		X	X	X	X	X	X	X	X	_	X	X	X	X	X	_	X	X	X	X	X	X	X	_	_
MCWW12	1.00	2128		X	X	X	X	X	X	X	X	_	X	X	X	X	X	_	X	X	X	X	X	X	X	_	_
MCWW13	1.00	2133		X	X	X	X	X	X	X	X	_	X	X	X	X	X	_	X	X	X	X	X	X	X	_	_
MCWW15	1.00	2139		X	X	X	X	X	X	X	X	_	X	X	X	X	X	_	X	X	X	X	X	X	X	_	_
ZZZZZZ	1.00	2148										_						_								_	_
CCV	1.00	2154		X	X	X	X	X	X	X	X	_	X	X	X	X	X	_	X	X	X	X	X	X	X	_	_
CCB	1.00	2200		X	X	X	X	X	X	X	X	_	X	X	X	X	X	_	X	X	X	X	X	X	X	_	_
MCWW16	1.00	2205		X	X	X	X	X	X	X	X	_	X	X	X	X	X	_	X	X	X	X	X	X	X	_	_
MCWW18	1.00	2211		X	X	X	X	X	X	X	X	_	X	X	X	X	X	_	X	X	X	X	X	X	X	_	_
MCWW19	1.00	2216		X	X	X	X	X	X	X	X	_	X	X	X	X	X	_	X	X	X	X	X	X	X	_	_
MCWW20	1.00	2222		X	X	X	X	X	X	X	X	_	X	X	X	X	X	_	X	X	X	X	X	X	X	_	_
MCWW21	1.00	2227		X	X	X	X	X	X	X	X	_	X	X	X	X	X	_	X	X	X	X	X	X	X	_	_
MCWW22	1.00	2233		X	X	X	X	X	X	X	X	_	X	X	X	X	X	_	X	X	X	X	X	X	X	_	_
ZZZZZZ	1.00	2242		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
CRI	1.00	2248		_	X	X	_	X	X	_	X	_	X	_	X	_	X	_	X	X	X	X	X	X	X	_	_
ICSA	1.00	2253		X	X	X	X	X	X	X	X	_	X	X	X	X	X	_	X	X	X	X	X	X	X	_	_
ICSAB	1.00	2259		X	X	X	X	X	X	X	X	_	X	X	X	X	X	_	X	X	X	X	X	X	X	_	_
CCV	1.00	2304		X	X	X	X	X	X	X	X	_	X	X	X	X	X	_	X	X	X	X	X	X	X	_	_
				_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

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ANALYSIS RUN LOG

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 27981_ SAS No.: _____ SDG No.:MCTT34

Instrument ID Number: TJA ET2_____ Method: P_

Start Date: 04/29/00 End Date: 04/30/00

EPA Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
CCB 3	1.00	2310		X	X	X	X	X	X	X	X	_	X	X	X	X	X	_	X	X	X	X	X	X	X	_	_
MCWW23	1.00	2315		X	X	X	X	X	X	X	X	_	X	X	X	X	X	_	X	X	X	X	X	X	X	_	_
MCWW17	1.00	2321		X	X	X	X	X	X	X	X	_	X	X	X	X	X	_	X	X	X	X	X	X	X	_	_
MCWW17D	1.00	2327		X	X	X	X	X	X	X	X	_	X	X	X	X	X	_	X	X	X	X	X	X	X	_	_
MCWW17S	1.00	2332		_	X	X	X	X	X	_	X	_	X	_	X	_	X	_	X	_	X	X	_	X	X	_	_
MCWW17L	5.00	2338		X	X	X	X	X	X	X	X	_	X	X	X	X	X	_	X	X	X	X	X	X	X	_	_
ZZZZZZ	1.00	2347																									
CCV 4	1.00	2353		X	X	X	X	X	X	X	X	_	X	X	X	X	X	_	X	X	X	X	X	X	X	_	_
CCB 4	1.00	2358		X	X	X	X	X	X	X	X	_	X	X	X	X	X	_	X	X	X	X	X	X	X	_	_
CRI 4/3	1.00	0004		_	X	X	_	X	X	_	X	_	X	_	X	_	X	_	X	X	X	X	X	X	X	_	_
ICSA	1.00	0009		X	X	X	X	X	X	X	X	_	X	X	X	X	X	_	X	X	X	X	X	X	X	_	_
ICSAB	1.00	0015		X	X	X	X	X	X	X	X	_	X	X	X	X	X	_	X	X	X	X	X	X	X	_	_
CCV 5	1.00	0020		X	X	X	X	X	X	X	X	_	X	X	X	X	X	_	X	X	X	X	X	X	X	_	_
CCB 5	1.00	0026		X	X	X	X	X	X	X	X	_	X	X	X	X	X	_	X	X	X	X	X	X	X	_	_

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ANALYSIS RUN LOG

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 27981_ SAS No.: _____ SDG No.:MCTT34

Instrument ID Number: TJA 61E_____ Method: P_

Start Date: 05/02/00 End Date: 05/02/00

EPA Sample No	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.00	0824										X															
S	1.00	0828										X															
S	1.00	0832																									
ICV	1.00	0837										X															
ICB	1.00	0840										X															
CRI	1.00	0844										X															
ICSA	1.00	0904										X															
ICSAB	1.00	0907										X															
CCV1	1.00	0911										X															
CCB	1.00	0915										X															
PBS	1.00	0919										X															
LCSS	1.00	0922										X															
MCTT34	1.00	0926										X															
MCWW10	1.00	0930										X															
MCWW11	1.00	0933										X															
MCWW12	1.00	0937										X															
MCWW13	1.00	0941										X															
MCWW15	1.00	0944										X															
MCWW16	1.00	0948										X															
ZZZZZZ	1.00	0952																									
CCV2	1.00	0955										X															
CCB	1.00	0959										X															
MCWW17	1.00	1003										X															
MCWW17L	5.00	1006										X															
MCWW17S	1.00	1010										X															
MCWW17D	1.00	1014										X															
MCWW18	1.00	1017										X															
MCWW19	1.00	1021										X															
ZZZZZZ	1.00	1027																									
CRI	1.00	1031										X															
ICSA	1.00	1034										X															
ICSAB	1.00	1038										X															

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ANALYSIS RUN LOG

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 27981_ SAS No.: _____ SDG No.:MCTT34

Instrument ID Number: TJA 61E_____ Method: P_

Start Date: 05/02/00 End Date: 05/02/00

EPA Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
CCV3	1.00	1042										X															
CCB	1.00	1045										X															
MCWW20	1.00	1049										X															
MCWW21	1.00	1053										X															
MCWW22	1.00	1057										X															
MCWW23	1.00	1101										X															
ZZZZZZ	1.00	1108																									
CRI	1.00	1112										X															
ICSA	1.00	1117										X															
ICSAB	1.00	1120										X															
CCV4	1.00	1124										X															
CCB	1.00	1128										X															

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ANALYSIS RUN LOG

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 27981_ SAS No.: _____ SDG No.:MCTT34

Instrument ID Number: TJA ET2_____ Method: P_

Start Date: 05/01/00 End Date: 05/02/00

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.00	1959																								X	
S	1.00	2004																								X	
ICV	1.00	2010																								X	
ICB	1.00	2016																								X	
CRI	1.00	2021																								X	
ICSA	1.00	2043																								X	
ICSAB	1.00	2048																								X	
CCV	1.00	2054																								X	
CCB	1.00	2059																								X	
ZZZZZZ	1.00	2105																									
ZZZZZZ	1.00	2110																									
ZZZZZZ	1.00	2118																									
PBS	1.00	2123																								X	
LCSS	1.00	2129																								X	
ZZZZZZ	5.00	2134																									
MCTT34	1.00	2140																								X	
MCWW10	1.00	2145																								X	
MCWW11	1.00	2151																								X	
ZZZZZZ	1.00	2203																									
CCV	1.00	2209																								X	
CCB	1.00	2214																								X	
MCWW12	1.00	2220																								X	
MCWW13	1.00	2225																								X	
MCWW15	1.00	2231																								X	
MCWW16	1.00	2236																								X	
MCWW18	1.00	2242																								X	
MCWW19	1.00	2247																								X	
ZZZZZZ	1.00	2259																									
CRI	1.00	2305																								X	
ICSA	1.00	2310																								X	
ICSAB	1.00	2316																								X	
CCV	1.00	2321																								X	

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ANALYSIS RUN LOG

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 27981_ SAS No.: _____ SDG No.:MCTT34

Instrument ID Number: TJA ET2_____ Method: P_

Start Date: 05/01/00 End Date: 05/02/00

EPA Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
CCB	1.00	2327																								X	
MCWW20	1.00	2332																								X	
MCWW21	1.00	2338																								X	
MCWW22	1.00	2343																								X	
MCWW23	1.00	2349																								X	
MCWW17	1.00	2354																								X	
MCWW17D	1.00	0000																								X	
MCWW17S	1.00	0006																								X	
MCWW17L	5.00	0011																								X	
ZZZZZZ	1.00	0023																									
CCV	1.00	0029																								X	
CCB	1.00	0034																								X	
CRI	1.00	0040																								X	
ICSA	1.00	0045																								X	
ICSAB	1.00	0051																								X	
CCV	1.00	0056																								X	
CCB	1.00	0102																								X	

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ANALYSIS RUN LOG

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 27981_ SAS No.: _____ SDG No.:MCTT34

Instrument ID Number: LEEMAN B_____ Method: CV

Start Date: 04/26/00 End Date: 04/26/00

EPA Sample No	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.00	0950		–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–
S0.2	1.00	0952		–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–
S0.5	1.00	0955		–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–
S1	1.00	0958		–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–
S5	1.00	1001		–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–
S10	1.00	1003		–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–
ICV	1.00	1006		–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–
ICB	1.00	1009		–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–
CRA	1.00	1012		–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–
CCV	1.00	1014		–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–
CCB	1.00	1017		–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–
ZZZZZZ	1.00	1049		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
ZZZZZZ	1.00	1052		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
ZZZZZZ	1.00	1054		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
ZZZZZZ	1.00	1057		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
ZZZZZZ	1.00	1059		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
ZZZZZZ	1.00	1102		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
ZZZZZZ	1.00	1105		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
ZZZZZZ	1.00	1107		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
ZZZZZZ	1.00	1110		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
ZZZZZZ	1.00	1113		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CCV	1.00	1115		–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–
CCB	1.00	1118		–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–
ZZZZZZ	1.00	1121		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
ZZZZZZ	1.00	1123		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
ZZZZZZ	1.00	1126		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
ZZZZZZ	1.00	1129		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
ZZZZZZ	1.00	1131		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
ZZZZZZ	1.00	1134		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
ZZZZZZ	1.00	1137		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
ZZZZZZ	1.00	1139		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
ZZZZZZ	1.00	1142		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

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ANALYSIS RUN LOG

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 27981_ SAS No.: _____ SDG No.:MCTT34

Instrument ID Number: LEEMAN B_____ Method: CV

Start Date: 04/26/00 End Date: 04/26/00

EPA Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ZZZZZZ__	1.00	1145		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CCV_____	1.00	1147		–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–
CCB_____	1.00	1150		–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–
ZZZZZZ__	1.00	1153		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
ZZZZZZ__	1.00	1155		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
ZZZZZZ__	1.00	1158		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
ZZZZZZ__	1.00	1201		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
ZZZZZZ__	1.00	1203		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
ZZZZZZ__	1.00	1206		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
PBS_____	1.00	1209		–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–
LCSS____	10.00	1211		–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–
MCTT34__	1.00	1214		–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–
MCWW10__	1.00	1217		–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–
CCV_____	1.00	1219		–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–
CCB_____	1.00	1222		–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–
MCWW11__	1.00	1225		–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–
MCWW12__	1.00	1227		–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–
MCWW13__	1.00	1230		–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–
MCWW15__	1.00	1233		–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–
MCWW16__	1.00	1235		–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–
MCWW17__	1.00	1238		–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–
MCWW17D_	1.00	1241		–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–
MCWW17S_	1.00	1244		–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–
MCWW18__	1.00	1246		–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–
MCWW19__	1.00	1249		–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–
CCV_____	1.00	1252		–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–
CCB_____	1.00	1254		–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–
MCWW20__	1.00	1257		–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–
MCWW21__	1.00	1300		–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–
MCWW22__	1.00	1302		–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–
MCWW23__	1.00	1305		–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–
ZZZZZZ__	1.00	1308		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
_____	_____	_____	_____	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

14
ANALYSIS RUN LOG

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 27981_ SAS No.: _____ SDG No.:MCTT34

Instrument ID Number: LEEMAN B_____ Method: CV

Start Date: 04/26/00 End Date: 04/26/00

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ZZZZZZ	1.00	1311																									
ZZZZZZ	1.00	1313																									
ZZZZZZ	1.00	1316																									
ZZZZZZ	1.00	1319																									
ZZZZZZ	1.00	1322																									
CCV	1.00	1324																X									
CCB	1.00	1327																X									

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ANALYSIS RUN LOG

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 27981_ SAS No.: _____ SDG No.:MCTT34

Instrument ID Number: LACHAT_____ Method: CA

Start Date: 04/28/00 End Date: 04/28/00

EPA Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S200	1.00	0931																									X
S150	1.00	0932																									X
S100	1.00	0933																									X
S50	1.00	0934																									X
S10	1.00	0935																									X
S5	1.00	0936																									X
S0	1.00	0937																									X
ICV	1.00	1015																									X
ICB	1.00	1016																									X
CCV	1.00	1016																									X
CCB	1.00	1017																									X
PBS	1.00	1019																									X
LCSS	1.00	1020																									X
ZZZZZZ	1.00	1021																									
MCTT34	1.00	1021																									X
MCWW10	1.00	1022																									X
MCWW11	1.00	1023																									X
CCV	1.00	1024																									X
CCB	1.00	1024																									X
MCWW12	1.00	1026																									X
MCWW13	1.00	1027																									X
MCWW15	1.00	1028																									X
MCWW16	1.00	1029																									X
MCWW17	1.00	1029																									X
MCWW17D	1.00	1030																									X
MCWW17S	1.00	1031																									X
MCWW18	1.00	1032																									X
CCV	1.00	1032																									X
CCB	1.00	1033																									X
MCWW19	1.00	1035																									X
MCWW20	1.00	1036																									X
MCWW21	1.00	1037																									X

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14
ANALYSIS RUN LOG

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 27981_ SAS No.: _____ SDG No.:MCTT34

Instrument ID Number: LACHAT_____ Method: CA

Start Date: 04/28/00 End Date: 04/28/00

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
MCWW22	1.00	1037																									X
MCWW23	1.00	1038																									X
CCV	1.00	1039																									X
CCB	1.00	1040																									X

13
PREPARATION LOG

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.:_27981_ SAS No.: _____ SDG No.:MCTT34

Method: P_

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
LCSS	04/25/00	1.00	200
MCTT34	04/25/00	1.00	200
MCWW10	04/25/00	1.00	200
MCWW11	04/25/00	1.02	200
MCWW12	04/25/00	1.05	200
MCWW13	04/25/00	1.04	200
MCWW15	04/25/00	1.05	200
MCWW16	04/25/00	1.05	200
MCWW17	04/25/00	1.02	200
MCWW17D	04/25/00	1.02	200
MCWW17S	04/25/00	1.02	200
MCWW18	04/25/00	1.02	200
MCWW19	04/25/00	1.01	200
MCWW20	04/25/00	1.01	200
MCWW21	04/25/00	1.03	200
MCWW22	04/25/00	1.03	200
MCWW23	04/25/00	1.00	200
PBS	04/25/00	1.00	200

13
PREPARATION LOG

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.:_27981_ SAS No.: _____ SDG No.:MCTT34

Method: CV

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
LCSS	04/26/00	0.23	100
MCTT34	04/26/00	0.21	100
MCWW10	04/26/00	0.25	100
MCWW11	04/26/00	0.22	100
MCWW12	04/26/00	0.25	100
MCWW13	04/26/00	0.23	100
MCWW15	04/26/00	0.23	100
MCWW16	04/26/00	0.23	100
MCWW17	04/26/00	0.21	100
MCWW17D	04/26/00	0.21	100
MCWW17S	04/26/00	0.21	100
MCWW18	04/26/00	0.20	100
MCWW19	04/26/00	0.21	100
MCWW20	04/26/00	0.22	100
MCWW21	04/26/00	0.21	100
MCWW22	04/26/00	0.20	100
MCWW23	04/26/00	0.24	100
PBS	04/26/00	0.20	100

13
PREPARATION LOG

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.:_27981_ SAS No.: _____ SDG No.:MCTT34

Method: CA

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
LCSS	04/26/00	1.00	50
MCTT34	04/26/00	1.05	50
MCWW10	04/26/00	1.00	50
MCWW11	04/26/00	1.01	50
MCWW12	04/26/00	1.00	50
MCWW13	04/26/00	1.01	50
MCWW15	04/26/00	1.00	50
MCWW16	04/26/00	1.02	50
MCWW17	04/26/00	1.03	50
MCWW17D	04/26/00	1.03	50
MCWW17S	04/26/00	1.03	50
MCWW18	04/26/00	1.02	50
MCWW19	04/26/00	1.02	50
MCWW20	04/26/00	1.02	50
MCWW21	04/26/00	1.02	50
MCWW22	04/26/00	1.03	50
MCWW23	04/26/00	1.01	50
PBS	04/26/00	1.00	50

10
Instrument Detection Limits (Quarterly)

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__
Lab Code: AATS__ Case No.: 27981 SAS No.: _____ SDG No.: MCTT34
ICP ID Number: TJA_ET2_____ Date: 04/07/00
Flame AA ID Number : _____
Furnace AA ID Number : _____

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum	308.20		200	9.0	P
Antimony	206.83		60	3.0	P
Arsenic	189.04		10	2.0	P
Barium	493.41		200	1.0	P
Beryllium	313.04		5	1.0	P
Cadmium	226.50		5	1.0	P
Calcium	317.93		5000	7.0	P
Chromium	267.72		10	1.0	P
Cobalt			50		NR
Copper	324.75		25	1.0	P
Iron	271.44		100	7.0	P
Lead	220.35		3	1.0	P
Magnesium	279.08		5000	6.0	P
Manganese	257.61		15	1.0	P
Mercury			0.2		NR
Nickel	231.60		40	1.0	P
Potassium	766.49		5000	27.0	P
Selenium	196.03		5	3.0	P
Silver	328.07		10	1.0	P
Sodium	588.99		5000	6.0	P
Thallium	190.87		10	2.0	P
Vanadium	292.40		50	1.0	P
Zinc	213.86		20	3.0	P
Cyanide			10		NR

Comments:

10
Instrument Detection Limits (Quarterly)

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__
Lab Code: AATS__ Case No.: 27981 SAS No.: _____ SDG No.: MCTT34
ICP ID Number: TJA_61E_____ Date: 04/12/00
Flame AA ID Number : _____
Furnace AA ID Number : _____

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200		NR
Antimony			60		NR
Arsenic			10		NR
Barium			200		NR
Beryllium			5		NR
Cadmium			5		NR
Calcium			5000		NR
Chromium			10		NR
Cobalt	228.62		50	6.0	P
Copper			25		NR
Iron			100		NR
Lead			3		NR
Magnesium			5000		NR
Manganese			15		NR
Mercury			0.2		NR
Nickel			40		NR
Potassium			5000		NR
Selenium			5		NR
Silver			10		NR
Sodium			5000		NR
Thallium			10		NR
Vanadium			50		NR
Zinc			20		NR
Cyanide			10		NR

Comments:

10
Instrument Detection Limits (Quarterly)

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__
Lab Code: AATS__ Case No.: 27981 SAS No.: _____ SDG No.: MCTT34
ICP ID Number: _____ Date: 03/28/00
Flame AA ID Number : LEEMAN_B____
Furnace AA ID Number : _____

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200		NR
Antimony			60		NR
Arsenic			10		NR
Barium			200		NR
Beryllium			5		NR
Cadmium			5		NR
Calcium			5000		NR
Chromium			10		NR
Cobalt			50		NR
Copper			25		NR
Iron			100		NR
Lead			3		NR
Magnesium			5000		NR
Manganese			15		NR
Mercury	254.00		0.2	0.1	CV
Nickel			40		NR
Potassium			5000		NR
Selenium			5		NR
Silver			10		NR
Sodium			5000		NR
Thallium			10		NR
Vanadium			50		NR
Zinc			20		NR
Cyanide			10		NR

Comments:

10
Instrument Detection Limits (Quarterly)

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__
Lab Code: AATS__ Case No.: 27981 SAS No.: _____ SDG No.: MCTT34
ICP ID Number: _____ Date: 03/20/00
Flame AA ID Number : LACHAT_____
Furnace AA ID Number : _____

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200		NR
Antimony			60		NR
Arsenic			10		NR
Barium			200		NR
Beryllium			5		NR
Cadmium			5		NR
Calcium			5000		NR
Chromium			10		NR
Cobalt			50		NR
Copper			25		NR
Iron			100		NR
Lead			3		NR
Magnesium			5000		NR
Manganese			15		NR
Mercury			0.2		NR
Nickel			40		NR
Potassium			5000		NR
Selenium			5		NR
Silver			10		NR
Sodium			5000		NR
Thallium			10		NR
Vanadium			50		NR
Zinc			20		NR
Cyanide	578.00		10	1.0	CA

Comments:

SOUTHWEST LABORATORY OF OKLAHOMA, INC.
AMERICAN ANALYTICAL & TECHNICAL SERVICES, INC.
1700 West Albany / Broken Arrow, Oklahoma 74012 / Office (918) 251-2858 / Fax (918) 251-2599

SDG NARRATIVE

CONTRACT: 68W00086
CASE: 27981
SDG: MCTT35

DATE: May 3, 2000
SOW NO.: ILM04.1
EPISODE NO.: 42769

INORGANIC METAL FRACTION:

Eight water samples plus one LCS, duplicate and matrix spike were submitted for ICP and Hg analysis. No major problems occurred during the digestion or analysis of these samples. The cooler temperatures at receipt were 1.2, 2.3 and 1.9 degrees Celsius. The sample's analysis was completed according to the following:

SWL SOP #	Method SOP is based
SWL-IN-200	ILM04.0/04.1 (ICP analysis)
SWL-IN-202	ILM04.0/04.1 (analysis of Hg by cold vapor)

Initial and Continuing Calibration Checks: No problems.

Initial and Continuing Calibration Blanks: The following elements showed low level concentrations below the Contract Required Detection Limit in the Calibration Blanks: Al, As, Ca, Cu, Na, Zn / No action required.

Linearity near the CRDL (CRA & CRI): No problems.

Preparation Blanks: The following elements showed low level concentrations below the Contract Required Detection Limit in the Preparation Blank: Ca, Na, Zn / No action required.

Lab Control Spikes: No problems.

Matrix Spike: No problems.

Duplicate: No problems.

Serial Dilution (ICP): No problems.

Sincerely,

[redacted]

Inorganic Program Manager

U.S. EPA - CLP

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: AMERICAN_ANALYTICAL_____ Contract: 68W00086__

Lab Code: AATS__ Case No.: 27981 SAS No.: _____ SDG No.:MCTT35

SOW No.: ILM04.01 LR 5/13/00

EPA Sample No.	Lab Sample ID
MCTT35	42769.02
MCTT36	42769.03
MCTT37	42769.04
MCTT38	42769.05
MCTT39	42769.06
MCTT39D	42769.06D
MCTT39S	42769.06S
MCTT40	42769.07
MCTT41	42769.08
MCTT43	42769.10

Were ICP interelement corrections applied ? Yes/No YES

Were ICP background corrections applied ? Yes/No YES
If yes - were raw data generated before application of background corrections ? Yes/No NO_

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: _____ Name: [redacted]

Date: May 3, 2000 Title: Inorganic Program Manager

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3
BLANKS

Lab Name: AMERICAN_ANALYTICAL_____ Contract: 68W00086__

Lab Code: AATS__ Case No.: 27981_ SAS No.: _____ SDG No.: MCTT35

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L_

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum	-17.4	B	-14.6	B	13.0	U	-13.4	B	13.00	U	P
Antimony	3.0	U	3.0	U	3.0	U	3.0	U	3.00	U	P
Arsenic	3.0	U	-3.1	B	3.0	U	3.0	U	3.00	U	P
Barium	1.0	U	1.0	U	1.0	U	1.0	U	1.00	U	P
Beryllium	1.0	U	1.0	U	1.0	U	1.0	U	1.00	U	P
Cadmium	1.0	U	1.0	U	1.0	U	1.0	U	1.00	U	P
Calcium	14.7	B	28.2	B	28.2	B	31.0	B	23.69	B	P
Chromium	2.0	U	2.0	U	2.0	U	2.0	U	2.00	U	P
Cobalt	2.0	U	2.0	U	2.0	U	2.0	U	2.00	U	P
Copper	1.0	U	1.6	B	1.4	B	1.6	B	1.00	U	P
Iron	25.0	U	25.0	U	25.0	U	25.0	U	25.00	U	P
Lead	2.0	U	2.0	U	2.0	U	2.0	U	2.00	U	P
Magnesium	198.0	U	198.0	U	198.0	U	198.0	U	198.00	U	P
Manganese	1.0	U	1.0	U	1.0	U	1.0	U	1.00	U	P
Mercury	0.1	U	0.1	U	0.1	U	0.1	U	0.10	U	CV
Nickel	2.0	U	2.0	U	2.0	U	2.0	U	2.00	U	P
Potassium	38.0	U	38.0	U	38.0	U	38.0	U	38.00	U	P
Selenium	4.0	U	4.0	U	4.0	U	4.0	U	4.00	U	P
Silver	3.0	U	3.0	U	3.0	U	3.0	U	3.00	U	P
Sodium	16.3	B	13.0	U	16.0	B	14.4	B	98.70	B	P
Thallium	6.0	U	6.0	U	6.0	U	6.0	U	6.00	U	P
Vanadium	2.0	U	2.0	U	2.0	U	2.0	U	2.00	U	P
Zinc	1.4	B	2.4	B	2.2	B	2.4	B	1.69	B	P

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3
BLANKS

Lab Name: AMERICAN_ANALYTICAL_____ Contract: 68W00086__

Lab Code: AATS__ Case No.: 27981_ SAS No.: _____ SDG No.: MCTT35

Preparation Blank Matrix (soil/water): _____

Preparation Blank Concentration Units (ug/L or mg/kg): _____

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											NR
Antimony											NR
Arsenic											NR
Barium											NR
Beryllium											NR
Cadmium											NR
Calcium											NR
Chromium											NR
Cobalt											NR
Copper											NR
Iron											NR
Lead											NR
Magnesium											NR
Manganese											NR
Mercury			0.1	U							CV
Nickel											NR
Potassium	27.0	U	27.0	U	27.0	U	27.0	U			P
Selenium											NR
Silver											NR
Sodium	6.0	U	-6.1	B	6.0	U	6.0	U			P
Thallium											NR
Vanadium											NR
Zinc											NR

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2B
CRDL STANDARD FOR AA AND ICP

Lab Name: AMERICAN_ANALYTICAL_____ Contract: 68W00086__

Lab Code: AATS__ Case No.: 27981_ SAS No.: _____ SDG No.: MCTT35

AA CRDL Standard Source: PLASMACHEM__

ICP CRDL Standard Source: IN.VEN._____

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
					Initial		Final	
	True	Found	%R	True	Found	%R	Found	%R
Aluminum								
Antimony				120.0	116.64	97.2	117.49	97.9
Arsenic				20.0	20.55	102.7	19.28	96.4
Barium								
Beryllium				10.0	10.24	102.4	10.28	102.8
Cadmium				10.0	9.75	97.5	9.60	96.0
Calcium								
Chromium				20.0	19.68	98.4	19.26	96.3
Cobalt				100.0	96.04	96.0	96.17	96.2
Copper				50.0	48.17	96.3	47.58	95.2
Iron								
Lead				6.0	6.04	100.7	4.78	79.7
Magnesium								
Manganese				30.0	28.85	96.2	28.61	95.4
Mercury	0.2	0.21	105.0					
Nickel				80.0	77.41	96.8	77.91	97.4
Potassium								
Selenium				10.0	8.53	85.3	11.16	111.6
Silver				20.0	20.55	102.7	19.50	97.5
Sodium								
Thallium				20.0	19.55	97.7	22.07	110.3
Vanadium				100.0	98.51	98.5	97.23	97.2
Zinc				40.0	41.49	103.7	41.68	104.2

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ANALYSIS RUN LOG

Lab Name: AMERICAN_ANALYTICAL_____ Contract: 68W00086__

Lab Code: AATS__ Case No.: 27981_ SAS No.: _____ SDG No.:MCTT35

Instrument ID Number: TJA ET1_____ Method: P_

Start Date: 04/26/00 End Date: 04/27/00

EPA Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	
S0	1.00	2158		X̄	X̄	X̄	X̄	X̄	X̄	X̄	X̄	X̄	X̄	X̄	X̄	X̄	X̄	_	X̄	X̄	X̄	X̄	X̄	X̄	X̄	X̄	_
S	1.00	2203		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_
ICV	1.00	2208		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_
ICB	1.00	2213		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_
CRI	1.00	2218			X	X		X	X		X	X	X		X		X	_	X		X	X		X	X	X	_
ICSA	1.00	2223		X̄	X	X	X̄	X	X	X̄	X	X	X	X̄	X	X̄	X	_	X	X̄	X	X	X̄	X	X	X	_
ICSAB	1.00	2228		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_
CCV	1.00	2234		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_
CCB 1	1.00	2239		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_
PBW	1.00	2244		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_
LCSW	1.00	2249		X	X		X	X		X	X	X	X	X		X	X	_	X	_			_		X	X	_
LCSW	1.00	2254				X̄			X̄						X̄			_		_	X̄	X̄	_	X̄			_
MCTT35	1.00	2259		X̄	X̄	X̄	X̄	X̄	X̄	X̄	X̄	X̄	X̄	X̄	X̄	X̄	X̄	_	X̄	X̄	X̄	X̄	X̄	X̄	X̄	X̄	_
MCTT36	1.00	2304		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_
MCTT37	1.00	2309		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_
MCTT38	1.00	2314		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_
MCTT39	1.00	2319		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_
MCTT39L	6.00	2324		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_
ZZZZZZ	1.00	2330																									_
CCV	1.00	2335		X̄	X̄	X̄	X̄	X̄	X̄	X̄	X̄	X̄	X̄	X̄	X̄	X̄	X̄	_	X̄	X̄	X̄	X̄	X̄	X̄	X̄	X̄	_
CCB 2	1.00	2340		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_
MCTT39S	1.00	2345		X	X	X	X	X	X		X	X	X	X	X		X	_	X		X	X		X	X	X	_
MCTT39D	1.00	2350		X	X	X	X	X	X	X̄	X	X	X	X	X	X̄	X	_	X	X̄	X	X	X̄	X	X	X	_
MCTT40	1.00	2355		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_
MCTT41	1.00	0000		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_
MCTT43	1.00	0005		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_
ZZZZZZ	1.00	0012																									_
CRI	1.00	0017		_	X̄	X̄	_	X̄	X̄	_	X̄	X̄	X̄	_	X̄	_	X̄	_	X̄	_	X̄	X̄	_	X̄	X̄	X̄	_
ICSA	1.00	0022		X̄	X	X	X̄	X	X	X̄	X	X	X	X̄	X	X̄	X	_	X	X̄	X	X	X̄	X	X	X	_
ICSAB	1.00	0027		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_
CCV	1.00	0032		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_
CCB 3	1.00	0037		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_
				_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

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ANALYSIS RUN LOG

Lab Name: AMERICAN_ANALYTICAL_____ Contract: 68W00086__

Lab Code: AATS__ Case No.: 27981_ SAS No.: _____ SDG No.:MCTT35

Instrument ID Number: TJA ET2_____ Method: P_

Start Date: 05/01/00 End Date: 05/01/00

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	
S0	1.00	1959																		X			X				
S	1.00	2004																		X			X				
ICV	1.00	2010																		X			X				
ICB	1.00	2016																		X			X				
CRI	1.00	2021																									
ICSA	1.00	2043																		X			X				
ICSAB	1.00	2048																		X			X				
CCV	1.00	2054																		X			X				
CCB	1.00	2059																		X			X				
ZZZZZZ	1.00	2105																									
LCSW	2.00	2110																		X			X				
ZZZZZZ	1.00	2118																									
ZZZZZZ	1.00	2123																									
ZZZZZZ	1.00	2129																									
ZZZZZZ	1.00	2134																									
ZZZZZZ	1.00	2140																									
ZZZZZZ	1.00	2145																									
ZZZZZZ	1.00	2151																									
ZZZZZZ	1.00	2203																									
CCV	1.00	2209																		X			X				
CCB	1.00	2214																		X			X				
ZZZZZZ	1.00	2220																									
ZZZZZZ	1.00	2225																									
ZZZZZZ	1.00	2231																									
ZZZZZZ	1.00	2236																									
ZZZZZZ	1.00	2242																									
ZZZZZZ	1.00	2247																									
ZZZZZZ	1.00	2259																									
CRI	1.00	2305																									
ICSA	1.00	2310																		X			X				
ICSAB	1.00	2316																		X			X				
CCV	1.00	2321																		X			X				

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ANALYSIS RUN LOG

Lab Name: AMERICAN_ANALYTICAL_____ Contract: 68W00086__

Lab Code: AATS__ Case No.: 27981_ SAS No.: _____ SDG No.:MCTT35

Instrument ID Number: TJA ET2_____ Method: P_

Start Date: 05/01/00 End Date: 05/01/00

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN		
CCB	1.00	2327																		X			X					

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ANALYSIS RUN LOG

Lab Name: AMERICAN_ANALYTICAL_____ Contract: 68W00086__

Lab Code: AATS__ Case No.: 27981_ SAS No.: _____ SDG No.:MCTT35

Instrument ID Number: LEEMAN B_____ Method: CV

Start Date: 04/26/00 End Date: 04/26/00

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN		
S0	1.00	0950		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	
S0.2	1.00	0952		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	
S0.5	1.00	0955		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	
S1	1.00	0958		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	
S5	1.00	1001		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	
S10	1.00	1003		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	
ICV	1.00	1006		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	
ICB	1.00	1009		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	
CRA	1.00	1012		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	
CCV	1.00	1014		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	
CCB	1.00	1017		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	
ZZZZZZ	1.00	1049		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
ZZZZZZ	1.00	1052		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
ZZZZZZ	1.00	1054		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
ZZZZZZ	1.00	1057		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
ZZZZZZ	1.00	1059		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
ZZZZZZ	1.00	1102		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
ZZZZZZ	1.00	1105		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
ZZZZZZ	1.00	1107		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
ZZZZZZ	1.00	1110		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
ZZZZZZ	1.00	1113		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
CCV	1.00	1115		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	
CCB	1.00	1118		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	
ZZZZZZ	1.00	1121		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
ZZZZZZ	1.00	1123		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
ZZZZZZ	1.00	1126		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
ZZZZZZ	1.00	1129		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
ZZZZZZ	1.00	1131		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PBW	1.00	1134		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	
MCTT35	1.00	1137		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	
MCTT36	1.00	1139		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	
MCTT37	1.00	1142		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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ANALYSIS RUN LOG

Lab Name: AMERICAN_ANALYTICAL_____ Contract: 68W00086__

Lab Code: AATS__ Case No.: 27981_ SAS No.: _____ SDG No.:MCTT35

Instrument ID Number: LEEMAN B_____ Method: CV

Start Date: 04/26/00 End Date: 04/26/00

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	
MCTT38	1.00	1145																X									
CCV	1.00	1147																X									
CCB	1.00	1150																X									
MCTT39	1.00	1153																X									
MCTT39D	1.00	1155																X									
MCTT39S	1.00	1158																X									
MCTT40	1.00	1201																X									
MCTT41	1.00	1203																X									
MCTT43	1.00	1206																X									
ZZZZZZ	1.00	1209																									
ZZZZZZ	1.00	1211																									
ZZZZZZ	1.00	1214																									
ZZZZZZ	1.00	1217																									
CCV	1.00	1219																X									
CCB	1.00	1222																X									

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PREPARATION LOG

Lab Name: AMERICAN_ANALYTICAL_____ Contract: 68W00086__

Lab Code: AATS__ Case No.:_27981_ SAS No.: _____ SDG No.:MCTT35

Method: P_

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
LCSW	04/24/00		100
LCSW	04/24/00		100
MCTT35	04/24/00		100
MCTT36	04/24/00		100
MCTT37	04/24/00		100
MCTT38	04/24/00		100
MCTT39	04/24/00		100
MCTT39D	04/24/00		100
MCTT39S	04/24/00		100
MCTT40	04/24/00		100
MCTT41	04/24/00		100
MCTT43	04/24/00		100
PBW	04/24/00		100

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PREPARATION LOG

Lab Name: AMERICAN_ANALYTICAL_____ Contract: 68W00086__

Lab Code: AATS__ Case No.:_27981_ SAS No.: _____ SDG No.:MCTT35

Method: CV

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
MCTT35	04/26/00		100
MCTT36	04/26/00		100
MCTT37	04/26/00		100
MCTT38	04/26/00		100
MCTT39	04/26/00		100
MCTT39D	04/26/00		100
MCTT39S	04/26/00		100
MCTT40	04/26/00		100
MCTT41	04/26/00		100
MCTT43	04/26/00		100
PBW	04/26/00		100

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Instrument Detection Limits (Quarterly)

Lab Name: AMERICAN_ANALYTICAL_____ Contract: 68W00086__
Lab Code: AATS__ Case No.: 27981 SAS No.: _____ SDG No.: MCTT35
ICP ID Number: TJA_ET1_____ Date: 04/17/00
Flame AA ID Number : _____
Furnace AA ID Number : _____

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum	308.22		200	13.0	P
Antimony	206.84		60	3.0	P
Arsenic	189.04		10	3.0	P
Barium	493.41		200	1.0	P
Beryllium	313.04		5	1.0	P
Cadmium	226.50		5	1.0	P
Calcium	317.93		5000	4.0	P
Chromium	267.72		10	2.0	P
Cobalt	228.62		50	2.0	P
Copper	324.75		25	1.0	P
Iron	271.44		100	25.0	P
Lead	220.35		3	2.0	P
Magnesium	279.08		5000	198.0	P
Manganese	257.61		15	1.0	P
Mercury			0.2		NR
Nickel	231.60		40	2.0	P
Potassium	776.49		5000	38.0	P
Selenium	196.03		5	4.0	P
Silver	328.07		10	3.0	P
Sodium	588.99		5000	13.0	P
Thallium	190.86		10	6.0	P
Vanadium	292.40		50	2.0	P
Zinc	213.86		20	1.0	P

Comments:

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Instrument Detection Limits (Quarterly)

Lab Name: AMERICAN_ANALYTICAL_____ Contract: 68W00086__
Lab Code: AATS__ Case No.: 27981 SAS No.: _____ SDG No.: MCTT35
ICP ID Number: TJA_ET2_____ Date: 04/07/00
Flame AA ID Number : _____
Furnace AA ID Number : _____

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200		NR
Antimony			60		NR
Arsenic			10		NR
Barium			200		NR
Beryllium			5		NR
Cadmium			5		NR
Calcium			5000		NR
Chromium			10		NR
Cobalt			50		NR
Copper			25		NR
Iron			100		NR
Lead			3		NR
Magnesium			5000		NR
Manganese			15		NR
Mercury			0.2		NR
Nickel			40		NR
Potassium	766.49		5000	27.0	P
Selenium			5		NR
Silver			10		NR
Sodium	588.99		5000	6.0	P
Thallium			10		NR
Vanadium			50		NR
Zinc			20		NR

Comments:

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Instrument Detection Limits (Quarterly)

Lab Name: AMERICAN_ANALYTICAL_____ Contract: 68W00086__
Lab Code: AATS__ Case No.: 27981 SAS No.: _____ SDG No.: MCTT35
ICP ID Number: _____ Date: 03/28/00
Flame AA ID Number : LEEMAN_B____
Furnace AA ID Number : _____

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200		NR
Antimony			60		NR
Arsenic			10		NR
Barium			200		NR
Beryllium			5		NR
Cadmium			5		NR
Calcium			5000		NR
Chromium			10		NR
Cobalt			50		NR
Copper			25		NR
Iron			100		NR
Lead			3		NR
Magnesium			5000		NR
Manganese			15		NR
Mercury	254.00		0.2	0.1	CV
Nickel			40		NR
Potassium			5000		NR
Selenium			5		NR
Silver			10		NR
Sodium			5000		NR
Thallium			10		NR
Vanadium			50		NR
Zinc			20		NR

Comments:

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COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 27981 SAS No.: _____ SDG No.:MCTT42

SOW No.: ILM04.~~0~~1 A# 5/8/00

EPA Sample No.	Lab Sample ID
MCTT42	42769.09
MCWW00	42769.11
MCWW00D	42769.11D
MCWW00S	42769.11S
MCWW01	42769.12
MCWW02	42769.13
MCWW03	42769.14
MCWW04	42769.15
MCWW05	42769.16
MCWW06	42769.17
MCWW07	42769.18
MCWW08	42769.19
MCWW09	42769.20

Were ICP interelement corrections applied ? Yes/No YES

Were ICP background corrections applied ? Yes/No YES
If yes - were raw data generated before application of background corrections ? Yes/No NO_

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: [redacted] Name: [redacted]

Date: May08, 2000 Title: Operations Manager

AMERICAN ANALYTICAL & TECHNICAL SERVICES, INC
1700 West Albany / Broken Arrow, Oklahoma 74012 / Office (918) 251-2858 / Fax (918) 251-2599

SDG NARRATIVE

CONTRACT: 68W00086 **DATE: May 08. 2000**
CASE: 27981 **SOW NO.: ILM04.1**
EPISODE NO.: 42769 **SDG: MCTT42**

INORGANIC METAL FRACTION:

Eleven water samples were submitted for ICP, CN and Hg analysis. No major problems occurred during the digestion or analysis of these samples. The cooler temperatures at time of receipt were at 2.3° Celsius. The sample's analyses were completed according to the following:

SWL SOP #	Method SOP is based
SWL-IN-200	ILM03.0/04.0 (ICP digestion & analysis)
SWL-IN-202	ILM03.0/04.0 (analysis of Hg by cold vapor)
SWL-IN-303	ILM03.0/04.0 (Cyanide)

Initial and Continuing Calibration Checks: No problems

Initial and Continuing Calibration Blanks: The following elements showed low level concentrations below the Contract Required Detection Limit in the Calibration Blank: Al, Be, Ca, Cu, Mg, K, Ag, Zn, and Na. \\No action required.

Linearity near the CRDL (CRA & CRI): No problems.

Preparation Blank: The following elements showed low level concentrations below the Contract Required Detection Limit in the Preparation Blank: Al, Ca, Na, and Zn.
\\No action required.

Lab Control Spikes: No problems.

Matrix Spike: No problems

Duplicate: No problems. (2) 5/2/00

Serial Dilution (ICP): The ~~soil~~ serial dilution was outside the control limits of 10% for the following element: Na.
All associated samples were flagged with an "E" on Form I's. No action required.

Sincerely,

[redacted]

Operations Manager

U.S. EPA - CLP

3
BLANKS

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 27981_ SAS No.: _____ SDG No.: MCTT42

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L_

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum	-14.2	B	-18.9	B	-19.9	B	-16.3	B	-21.75	B	P
Antimony	3.0	U	3.0	U	3.0	U	3.0	U	3.00	U	P
Arsenic	3.0	U	3.0	U	3.0	U	3.0	U	3.00	U	P
Barium	1.0	U	1.0	U	1.0	U	1.0	U	1.00	U	P
Beryllium	1.0	U	1.0	U	1.0	U	1.0	U	1.00	U	P
Cadmium	1.0	U	1.0	U	1.0	U	1.0	U	1.00	U	P
Calcium	14.9	B	540.0	B	541.2	B	537.2	B	17.16	B	P
Chromium	2.0	U	2.0	U	2.0	U	2.0	U	2.00	U	P
Cobalt	2.0	U	2.0	U	2.0	U	2.0	U	2.00	U	P
Copper	1.0	U	1.0	U	1.0	U	1.0	U	1.00	U	P
Iron	25.0	U	25.0	U	25.0	U	25.0	U	25.00	U	P
Lead	2.0	U	2.0	U	2.0	U	2.0	U	2.00	U	P
Magnesium	198.0	U	198.0	U	198.0	U	198.0	U	198.00	U	P
Manganese	1.0	U	1.0	U	1.0	U	1.0	U	1.00	U	P
Mercury	0.1	U	0.1	U	0.1	U	0.1	U	0.10	U	CV
Nickel	2.0	U	2.0	U	2.0	U	2.0	U	2.00	U	P
Potassium	38.0	U	38.0	U	38.0	U	38.0	U	38.00	U	P
Selenium	4.0	U	4.0	U	4.0	U	4.0	U	4.00	U	P
Silver	3.0	U	3.0	U	3.0	U	3.0	U	3.00	U	P
Sodium	13.0	U	13.0	U	13.0	U	13.0	U	110.79	B	P
Thallium	6.0	U	6.0	U	6.0	U	6.0	U	6.00	U	P
Vanadium	2.0	U	2.0	U	2.0	U	2.0	U	2.00	U	P
Zinc	1.4	B	1.0	U	1.0	U	1.0	U	3.63	B	P
Cyanide	1.0	U	1.0	U	1.0	U	1.0	U	1.00	U	CA

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3
BLANKS

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 27981_ SAS No.: _____ SDG No.: MCTT42

Preparation Blank Matrix (soil/water): _____

Preparation Blank Concentration Units (ug/L or mg/kg): _____

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1 4/1	C	2 2	C	3	C	Prepa-ration Blank	C	M
Aluminum	16.0	U	16.0	U	30.0	B					P
Antimony			3.0	U							P
Arsenic			3.0	U							P
Barium			1.0	U							P
Beryllium	1.0	U	1.0	U	2.3	B					P
Cadmium			1.0	U							P
Calcium			363.8	B							P
Chromium			2.0	U							P
Cobalt	6.0	U	6.0	U	6.0	U					P
Copper			-2.2	B							P
Iron			25.0	U							P
Lead			2.0	U							P
Magnesium	18.0	U	20.8	B	66.7	B					P
Manganese			1.0	U							P
Mercury											NR
Nickel			2.0	U							P
Potassium	408.0	U	408.0	U	558.9	B					P
Selenium			4.0	U							P
Silver	3.0	U	4.5	B	8.9	B					P
Sodium			13.0	U							P
Thallium			6.0	U							P
Vanadium	5.0	U	5.0	U	5.0	U					P
Zinc			1.0	U							P
Cyanide			1.0	U							CA

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3
BLANKS

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 27981_ SAS No.: _____ SDG No.: MCTT42

Preparation Blank Matrix (soil/water): _____

Preparation Blank Concentration Units (ug/L or mg/kg): _____

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											NR
Antimony											NR
Arsenic											NR
Barium											NR
Beryllium											NR
Cadmium											NR
Calcium											NR
Chromium											NR
Cobalt											NR
Copper											NR
Iron											NR
Lead											NR
Magnesium											NR
Manganese											NR
Mercury											NR
Nickel											NR
Potassium											NR
Selenium											NR
Silver											NR
Sodium	60.0	U	65.3	B	106.7	B					P
Thallium											NR
Vanadium											NR
Zinc											NR
Cyanide											NR

2B
CRDL STANDARD FOR AA AND ICP

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 27981_ SAS No.: _____ SDG No.: MCTT42

AA CRDL Standard Source: PLASMACHEM__

ICP CRDL Standard Source: IN.VEN._____

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
	True	Found	%R	True	Initial Found	%R	Final Found	%R 2
Aluminum								
Antimony				120.0	115.74	96.4	119.44	99.5
Arsenic				20.0	19.52	97.6	19.54	97.7
Barium								
Beryllium				10.0	10.28	102.8	10.53	105.3
Cadmium				10.0	9.76	97.6	9.94	99.4
Calcium								
Chromium				20.0	19.17	95.8	19.48	97.4
Cobalt				100.0	94.96	95.0	98.73	98.7
Copper				50.0	47.57	95.1	48.31	96.6
Iron								
Lead				6.0	5.91	98.5	5.07	84.5
Magnesium								
Manganese				30.0	28.58	95.3	29.55	98.5
Mercury	0.2	0.21	105.0					
Nickel				80.0	76.43	95.5	79.28	99.1
Potassium								
Selenium				10.0	12.85	128.5	7.24	72.4
Silver				20.0	19.51	97.5	19.40	97.0
Sodium								
Thallium				20.0	19.47	97.3	17.72	88.6
Vanadium				100.0	97.14	97.1	99.13	99.1
Zinc				40.0	42.13	105.3	46.63	116.6

U.S. EPA - CLP

2B
CRDL STANDARD FOR AA AND ICP

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 27981_ SAS No.: _____ SDG No.: MCTT42

AA CRDL Standard Source: PLASMACHEM__

ICP CRDL Standard Source: IN.VEN._____

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
	True	Found	%R	True	Initial Found	%R	Final Found	%R
Aluminum								
Antimony				120.0			123.78	103.1
Arsenic				20.0			20.95	104.7
Barium								
Beryllium				10.0			0.00	0.0
Cadmium				10.0			10.43	104.3
Calcium								
Chromium				20.0			20.39	101.9
Cobalt				100.0			0.00	0.0
Copper				50.0			50.84	101.7
Iron								
Lead				6.0			6.59	109.8
Magnesium								
Manganese				30.0			30.68	102.3
Mercury								
Nickel				80.0			81.85	102.3
Potassium								
Selenium				10.0			11.12	111.2
Silver				20.0			0.00	0.0
Sodium								
Thallium				20.0			19.79	98.9
Vanadium				100.0			0.00	0.0
Zinc				40.0			48.66	121.6

2B
CRDL STANDARD FOR AA AND ICP

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 27981_ SAS No.: _____ SDG No.: MCTT42

AA CRDL Standard Source: _____

ICP CRDL Standard Source: IN.VEN._____

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
					Initial		Final	
	True	Found	%R	True	Found	%R	Found	%R
Aluminum								
Antimony								
Arsenic								
Barium								
Beryllium				10.0	9.05	90.5	9.43	94.3
Cadmium								
Calcium								
Chromium								
Cobalt				100.0	91.76	91.8	89.55	89.5
Copper								
Iron								
Lead								
Magnesium								
Manganese								
Mercury								
Nickel								
Potassium								
Selenium								
Silver				20.0	18.15	90.7	17.11	85.5
Sodium								
Thallium								
Vanadium				100.0	93.61	93.6	92.91	92.9
Zinc								

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9
ICP SERIAL DILUTION

EPA SAMPLE NO.

MCWW00L

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086

Lab Code: AATS Case No.: 27981 SAS No.: SDG No.: MCTT42

Matrix (soil/water): WATER Level (low/med): LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum	13.00	U	65.00	U			P
Antimony	3.00	U	15.00	U			P
Arsenic	3.00	U	15.00	U			P
Barium	20.71	B	21.77	B	5.1		P
Beryllium	1.00	U	5.00	U			P
Cadmium	1.00	U	5.00	U			P
Calcium	1934.21	B	2108.12	B	9.0		P
Chromium	5.28	B	10.00	U	100.0		P
Cobalt	6.92	B	10.00	U	100.0		P
Copper	258.48		265.87		2.9		P
Iron	25.00	U	125.00	U			P
Lead	7.49		10.00	U	100.0		P
Magnesium	963.66	B	990.00	U	100.0		P
Manganese	17.49		17.54	B	0.3		P
Mercury							NR
Nickel	13.33	B	11.50	B	13.7		P
Potassium	477.14	B	627.54	B	31.5		P
Selenium	4.00	U	20.00	U			P
Silver	3.00	U	15.00	U			P
Sodium	6856.58		7824.83	B	14.1	E	P
Thallium	6.00	U	30.00	U			P
Vanadium	2.00	U	10.00	U			P
Zinc	29.30		73.26	B	150.0		P

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2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 27981_ SAS No.: _____ SDG No.: MCTT42

Initial Calibration Source: EPA-LV_____

Continuing Calibration Source: IN.VEN._____

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1) CCV1	Continuing Calibration Found	Continuing Calibration %R(1) CCV2	M
Aluminum	782.4	796.08	101.7	5000.0	5057.58	101.2	5052.66	101.1	P
Antimony	970.0	1043.52	107.6	500.0	508.91	101.8	506.58	101.3	P
Arsenic	50.9	50.57	99.4	500.0	511.80	102.4	510.53	102.1	P
Barium	803.6	821.14	102.2	500.0	507.79	101.6	506.18	101.2	P
Beryllium	190.4	196.66	103.3	500.0	505.26	101.1	502.17	100.4	P
Cadmium	303.7	300.05	98.8	500.0	508.11	101.6	508.81	101.8	P
Calcium	20284.0	20115.56	99.2	5000.0	5073.80	101.5	5066.93	101.3	P
Chromium	188.4	196.98	104.6	500.0	508.86	101.8	509.53	101.9	P
Cobalt	208.0	217.60	104.6	500.0	510.17	102.0	507.25	101.4	P
Copper	198.8	198.48	99.8	500.0	512.21	102.4	513.58	102.7	P
Iron	794.0	793.06	99.9	5000.0	5056.71	101.1	5045.93	100.9	P
Lead	2074.0	2112.83	101.9	500.0	511.02	102.2	510.59	102.1	P
Magnesium	9835.2	10189.83	103.6	5000.0	4947.12	98.9	5054.54	101.1	P
Manganese	196.4	198.89	101.3	500.0	506.06	101.2	505.05	101.0	P
Mercury	4.1	3.88	94.6	5.0	5.01	100.2	4.72	94.4	CV
Nickel	198.8	199.06	100.1	500.0	511.26	102.3	512.33	102.5	P
Potassium	19841.0	20212.51	101.9	5000.0	5145.36	102.9	5175.01	103.5	P
Selenium	50.2	48.12	95.9	500.0	511.90	102.4	509.92	102.0	P
Silver	297.9	307.62	103.3	500.0	509.63	101.9	505.72	101.1	P
Sodium	19514.0	19987.92	102.4	5000.0	5155.56	103.1	5190.68	103.8	P
Thallium	98.9	102.12	103.3	500.0	508.09	101.6	507.87	101.6	P
Vanadium	196.8	203.40	103.4	500.0	508.86	101.8	505.80	101.2	P
Zinc	1204.8	1206.21	100.1	500.0	509.53	101.9	509.99	102.0	P
Cyanide	90.0	102.57	114.0	100.0	109.53	109.5	104.09	104.1	CA

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 27981_ SAS No.: _____ SDG No.: MCTT42

Initial Calibration Source: EPA-LV_____

Continuing Calibration Source: IN.VEN._____

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	%R(1) CCV3	Continuing Calibration Found	%R(1) CCV4	M
Aluminum				5000.0	5001.74	100.0			P
Antimony				500.0	502.88	100.6	483.41	96.7	P
Arsenic				500.0	507.89	101.6	509.61	101.9	P
Barium				500.0	501.94	100.4	551.91	110.4	P
Beryllium				500.0	496.85	99.4			P
Cadmium				500.0	506.62	101.3	508.05	101.6	P
Calcium				5000.0	5045.19	100.9	5084.67	101.7	P
Chromium				500.0	505.51	101.1	507.64	101.5	P
Cobalt				500.0	503.87	100.8			P
Copper				500.0	511.80	102.4	513.39	102.7	P
Iron				5000.0	5003.83	100.1	5460.70	109.2	P
Lead				500.0	506.92	101.4	475.47	95.1	P
Magnesium				5000.0	5018.41	100.4			P
Manganese				500.0	500.39	100.1	550.06	110.0	P
Mercury				5.0	4.75	95.0			CV
Nickel				500.0	508.76	101.8	509.41	101.9	P
Potassium				5000.0	5159.31	103.2			P
Selenium				500.0	505.23	101.0	476.48	95.3	P
Silver				500.0	499.12	99.8			P
Sodium				5000.0	5172.10	103.4	5225.10	104.5	P
Thallium				500.0	503.63	100.7	507.08	101.4	P
Vanadium				500.0	502.46	100.5			P
Zinc				500.0	506.18	101.2	522.07	104.4	P
Cyanide				100.0	101.62	101.6	102.68	102.7	CA

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 27981_ SAS No.: _____ SDG No.: MCTT42

Initial Calibration Source: EPA-LV_____

Continuing Calibration Source: IN.VEN._____

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Aluminum	782.4	800.67	102.3	20000.0	19230.23	96.2	18515.71	92.6	P
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium	190.4	188.25	98.9	2000.0	1857.37	92.9	1844.69	92.2	P
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt	208.0	208.26	100.1	2000.0	1881.27	94.1	1859.59	93.0	P
Copper									NR
Iron									NR
Lead									NR
Magnesium	9835.2	10001.39	101.7	20000.0	19238.90	96.2	18490.94	92.5	P
Manganese									NR
Mercury									NR
Nickel									NR
Potassium	19841.0	20609.10	103.9	20000.0	19911.62	99.6	19424.34	97.1	P
Selenium									NR
Silver	297.9	286.09	96.0	2000.0	1891.27	94.6	1851.44	92.6	P
Sodium	19514.0	20121.76	103.1	20000.0	19209.09	96.0	18378.68	91.9	P
Thallium									NR
Vanadium	196.8	192.15	97.6	2000.0	1902.12	95.1	1886.49	94.3	P
Zinc									NR
Cyanide									NR

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

12
ICP LINEAR RANGES (QUARTERLY)

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 27981_ SAS No.: _____ SDG No.: MCTT42

ICP ID Number: TJA ET1_____ Date: 04/26/00

Analyte	Integ. Time (sec.)	Concentration (ug/L)	M
Aluminum_	13.00	600000.0	P
Antimony_	13.00	10000.0	P
Arsenic__	13.00	10000.0	P
Barium___	13.00	30000.0	P
Beryllium	13.00	60000.0	P
Cadmium__	13.00	10000.0	P
Calcium__	13.00	550000.0	P
Chromium_	13.00	60000.0	P
Cobalt___	13.00	10000.0	P
Copper___	13.00	60000.0	P
Iron_____	13.00	400000.0	P
Lead_____	13.00	60000.0	P
Magnesium	13.00	600000.0	P
Manganese	13.00	20000.0	P
Mercury__			NR
Nickel___	13.00	50000.0	P
Potassium	13.00	40000.0	P
Selenium_	13.00	10000.0	P
Silver___	13.00	30000.0	P
Sodium___	13.00	40000.0	P
Thallium_	13.00	10000.0	P
Vanadium_	13.00	60000.0	P
Zinc_____	13.00	7500.0	P

Comments:

Method: EPA Sample Name: 42769.15 Operator:
Run Time: 04/27/00 09:00:15
Comment: MCWW04
Mode: CONC Corr. Factor: 1

103

Elem	As	Tl	Se	Pb	Sb	Al	Ba
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	266.88	4.2372	10.524	122.17	5.6720	94219.	714.33
SDev	2.56	2.7579	4.882	.86	1.7674	533.	3.35
%RSD	.95880	65.089	46.390	.70555	31.161	.56598	.46925
#1	269.46	4.6242	7.4806	122.90	7.4485	94360.	714.49
#2	264.34	1.3062	7.9366	122.39	3.9137	93629.	710.90
#3	266.86	6.7811	16.156	121.22	5.6540	94667.	717.59
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10000.	60000.	10000.	60000.	60000.	550000.	20000.
Low	-10.000	-10.000	-5.0000	-3.0000	-60.000	-200.00	-200.00

Elem	Be	Cd	Ca	Cr	Co	Cu	Fe
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	27.490	-3.0478	6934.8	1450.7	193.52	424.13	574990.
SDev	.168	.2088	15.6	4.8	2.37	1.53	2872.
%RSD	.61293	6.8519	.22456	.33159	1.2226	.36079	.49955
#1	27.548	-3.2393	6941.1	1451.0	192.88	423.92	575890.
#2	27.300	-2.8251	6917.0	1445.8	191.53	422.71	571780.
#3	27.622	-3.0789	6946.2	1455.4	196.13	425.75	577310.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10000.	10000.	550000.	60000.	60000.	60000.	600000.
Low	-5.0000	-5.0000	-5000.0	-10.000	-10.000	-25.000	-100.00

Elem	Mg	Mn	Ni	K	Ag	Na	330232
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	13315.	1617.7	97.744	7802.1	L-11.072	39371.	36204.
SDev	164.	7.1	.241	39.9	1.851	130.	65.
%RSD	1.2295	.43995	.24706	.51104	16.714	.32955	.18077
#1	13458.	1618.9	97.789	7788.3	L-13.195	39329.	36189.
#2	13136.	1610.0	97.960	7771.0	-9.7948	39267.	36148.
#3	13351.	1624.1	97.484	7847.0	L-10.228	39516.	36276.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Low	LC Pass	NOCHECK
High	600000.	20000.	60000.	50000.	30000.	50000.	
Low	-5000.0	-15.000	-40.000	-5000.0	-10.000	-5000.0	

Elem	V	Zn	220Pb1	220Pb2	196Se1	196Se2	206Sb1
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	1480.3	456.07	122.71	121.89	-.52564	16.028	12.470
SDev	5.0	.94	3.66	1.31	7.32626	3.661	2.899
%RSD	.34064	.20708	2.9813	1.0773	1393.8	22.845	23.250
#1	1481.0	456.13	122.80	122.94	-4.9680	13.683	14.614
#2	1475.0	455.10	126.32	120.41	-4.5392	14.153	9.1714
#3	1485.0	456.99	119.00	122.31	7.9304	20.247	13.625
Errors	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK

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ANALYSIS RUN LOG

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 27981_ SAS No.: _____ SDG No.:MCTT42

Instrument ID Number: TJA ET1_____ Method: P_

Start Date: 04/27/00 End Date: 04/27/00

EPA Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.00	0630		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
S	1.00	0636		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ICV	1.00	0643		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ICB	1.00	0650		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CRI 1	1.00	0656			X	X		X	X		X	X	X		X		X		X		X	X		X	X	X	
ICSA	1.00	0703		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ICSAB	1.00	0710		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCV	1.00	0716		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCB 1	1.00	0723		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
PBW	1.00	0730		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
LCSW	1.00	0737		X	X		X	X		X	X	X	X	X		X	X		X						X	X	
LCSW	1.00	0743				X			X						X						X	X		X			
MCWW00	1.00	0750		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
MCWW00S	1.00	0757		X	X	X	X	X	X		X	X	X	X	X		X		X		X	X		X	X	X	
MCWW00D	1.00	0803		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
MCWW00L	5.00	0810		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
MCWW01	1.00	0817		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
MCWW02	1.00	0823		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ZZZZZZ	1.00	0833																									
CCV	1.00	0840		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCB 2	1.00	0846		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
MCWW03	1.00	0853		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
MCWW04	1.00	0900		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
MCWW05	1.00	0906		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
MCWW06	1.00	0913		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
MCWW07	1.00	0920		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
MCWW08	1.00	0927		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ZZZZZZ	1.00	0936																									
CRI 3	1.00	0943			X	X		X	X		X	X	X		X		X		X		X	X		X	X	X	
ICSA	1.00	0950		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ICSAB	1.00	0956		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCV 3	1.00	1003		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	

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ANALYSIS RUN LOG

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 27981_ SAS No.: _____ SDG No.:MCTT42

Instrument ID Number: TJA ET1_____ Method: P_

Start Date: 04/27/00 End Date: 04/27/00

EPA Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
CCB_3	1.00	1010		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_
MCWW09	1.00	1016		_	X	X	X	_	X	X	X	_	X	X	X	_	X	_	X	_	X	_	X	X	_	X	_
MCTT42	1.00	1023		_	X	X	X	_	X	X	X	_	X	X	X	_	X	_	X	_	X	_	X	X	_	X	_
ZZZZZZ	1.00	1033		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
CRI_3	1.00	1039		_	X	X	_	_	X	_	X	_	X	_	X	_	X	_	X	_	X	_	_	X	_	X	_
ICSA	1.00	1046		_	X	X	X	_	X	X	X	_	X	X	X	_	X	_	X	_	X	_	X	X	_	X	_
ICSAB	1.00	1053		_	X	X	X	_	X	X	X	_	X	X	X	_	X	_	X	_	X	_	X	X	_	X	_
CCV	1.00	1059		_	X	X	X	_	X	X	X	_	X	X	X	_	X	_	X	_	X	_	X	X	_	X	_
CCB_4	1.00	1106		_	X	X	X	_	X	X	X	_	X	X	X	_	X	_	X	_	X	_	X	X	_	X	_

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ANALYSIS RUN LOG

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 27981_ SAS No.: _____ SDG No.:MCTT42

Instrument ID Number: TJA 61E_____ Method: P_

Start Date: 05/02/00 End Date: 05/02/00

EPA Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.00	1410		X				X				X				X				X		X	X		X		
S	1.00	1415						X				X										X			X		
S	1.00	1420		X												X				X			X				
ICV	1.00	1427		X				X				X				X				X		X	X		X		
ICB	1.00	1431		X				X				X				X				X		X	X		X		
CRI	1.00	1436						X				X										X			X		
ICSA	1.00	1441		X				X				X				X				X		X	X		X		
ICSAB	1.00	1446		X				X				X				X				X		X	X		X		
CCV	1.00	1450		X				X				X				X				X		X	X		X		
CCB 1	1.00	1455		X				X				X				X				X		X	X		X		
LCSW	2.00	1501																		X			X				
MCWW09	1.00	1506		X				X				X				X				X		X			X		
MCTT42	1.00	1510		X				X				X				X				X		X			X		
ZZZZZZ	1.00	1520																									
CRI	1.00	1524						X				X										X			X		
ICSA	1.00	1529		X				X				X				X				X		X	X		X		
ICSAB	1.00	1534		X				X				X				X				X		X	X		X		
CCV	1.00	1539		X				X				X				X				X		X	X		X		
CCB 2	1.00	1544		X				X				X				X				X		X	X		X		

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ANALYSIS RUN LOG

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 27981_ SAS No.: _____ SDG No.:MCTT42

Instrument ID Number: LEEMAN B_____ Method: CV

Start Date: 04/26/00 End Date: 04/26/00

EPA Sample No	D/F	Time	% R	Analytes																									
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.00	0950																X									
S0.2	1.00	0952																X									
S0.5	1.00	0955																X									
S1	1.00	0958																X									
S5	1.00	1001																X									
S10	1.00	1003																X									
ICV	1.00	1006																X									
ICB	1.00	1009																X									
CRA	1.00	1012																X									
CCV	1.00	1014																X									
CCB	1.00	1017																X									
ZZZZZZ	1.00	1049																									
PBW	1.00	1052																X									
MCTT42	1.00	1054																X									
MCWW00	1.00	1057																X									
MCWW00D	1.00	1059																X									
MCWW00S	1.00	1102																X									
MCWW01	1.00	1105																X									
MCWW02	1.00	1107																X									
MCWW03	1.00	1110																X									
MCWW04	1.00	1113																X									
CCV	1.00	1115																X									
CCB	1.00	1118																X									
MCWW05	1.00	1121																X									
MCWW06	1.00	1123																X									
MCWW07	1.00	1126																X									
MCWW08	1.00	1129																X									
MCWW09	1.00	1131																X									
ZZZZZZ	1.00	1134																									
ZZZZZZ	1.00	1137																									
ZZZZZZ	1.00	1139																									
ZZZZZZ	1.00	1142																									

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ANALYSIS RUN LOG

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 27981_ SAS No.: _____ SDG No.:MCTT42

Instrument ID Number: LEEMAN B_____ Method: CV

Start Date: 04/26/00 End Date: 04/26/00

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ZZZZZZ	1.00	1145																									
CCV	1.00	1147																X									
CCB	1.00	1150																X									

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ANALYSIS RUN LOG

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 27981_ SAS No.: _____ SDG No.:MCTT42

Instrument ID Number: LACHAT_____ Method: CA

Start Date: 04/28/00 End Date: 04/28/00

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S200	1.00	1045																									X
S150	1.00	1046																									X
S100	1.00	1047																									X
S50	1.00	1048																									X
S10	1.00	1049																									X
S5	1.00	1050																									X
S0	1.00	1051																									X
ICV	1.00	1054																									X
ICB	1.00	1054																									X
CCV	1.00	1055																									X
CCB	1.00	1056																									X
PBW	1.00	1058																									X
ZZZZZZ	1.00	1059																									
MCTT42	1.00	1100																									X
MCWW00	1.00	1100																									X
MCWW00D	1.00	1101																									X
MCWW00S	1.00	1102																									X
CCV	1.00	1102																									X
CCB	1.00	1103																									X
MCWW01	1.00	1105																									X
MCWW02	1.00	1106																									X
MCWW03	1.00	1107																									X
MCWW04	1.00	1107																									X
MCWW05	1.00	1108																									X
MCWW06	1.00	1109																									X
MCWW07	1.00	1110																									X
MCWW08	1.00	1110																									X
CCV	1.00	1111																									X
CCB	1.00	1112																									X
MCWW09	1.00	1114																									X
CCV	1.00	1115																									X
CCB	1.00	1115																									X

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PREPARATION LOG

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.:_27981_ SAS No.: _____ SDG No.:MCTT42

Method: P_

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
LCSW	04/24/00		100
LCSW	04/24/00		100
MCTT42	04/24/00		100
MCWW00	04/24/00		100
MCWW00D	04/24/00		100
MCWW00S	04/24/00		100
MCWW01	04/24/00		100
MCWW02	04/24/00		100
MCWW03	04/24/00		100
MCWW04	04/24/00		100
MCWW05	04/24/00		100
MCWW06	04/24/00		100
MCWW07	04/24/00		100
MCWW08	04/24/00		100
MCWW09	04/24/00		100
PBW	04/24/00		100

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PREPARATION LOG

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.:_27981_ SAS No.: _____ SDG No.:MCTT42

Method: CV

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
MCTT42	04/26/00		100
MCWW00	04/26/00		100
MCWW00D	04/26/00		100
MCWW00S	04/26/00		100
MCWW01	04/26/00		100
MCWW02	04/26/00		100
MCWW03	04/26/00		100
MCWW04	04/26/00		100
MCWW05	04/26/00		100
MCWW06	04/26/00		100
MCWW07	04/26/00		100
MCWW08	04/26/00		100
MCWW09	04/26/00		100
PBW	04/26/00		100

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PREPARATION LOG

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.:_27981_ SAS No.: _____ SDG No.:MCTT42

Method: CA

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
MCTT42	04/26/00		50
MCWW00	04/26/00		50
MCWW00D	04/26/00		50
MCWW00S	04/26/00		50
MCWW01	04/26/00		50
MCWW02	04/26/00		50
MCWW03	04/26/00		50
MCWW04	04/26/00		50
MCWW05	04/26/00		50
MCWW06	04/26/00		50
MCWW07	04/26/00		50
MCWW08	04/26/00		50
MCWW09	04/26/00		50
PBW	04/26/00		50

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Instrument Detection Limits (Quarterly)

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086
Lab Code: AATS Case No.: 27981 SAS No.: SDG No.: MCTT42
ICP ID Number: TJA_ET1 Date: 04/17/00
Flame AA ID Number :
Furnace AA ID Number :

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum	308.22		200	13.0	P
Antimony	206.84		60	3.0	P
Arsenic	189.04		10	3.0	P
Barium	493.41		200	1.0	P
Beryllium	313.04		5	1.0	P
Cadmium	226.50		5	1.0	P
Calcium	317.93		5000	4.0	P
Chromium	267.72		10	2.0	P
Cobalt	228.62		50	2.0	P
Copper	324.75		25	1.0	P
Iron	271.44		100	25.0	P
Lead	220.35		3	2.0	P
Magnesium	279.08		5000	198.0	P
Manganese	257.61		15	1.0	P
Mercury			0.2		NR
Nickel	231.60		40	2.0	P
Potassium	776.49		5000	38.0	P
Selenium	196.03		5	4.0	P
Silver	328.07		10	3.0	P
Sodium	588.99		5000	13.0	P
Thallium	190.86		10	6.0	P
Vanadium	292.40		50	2.0	P
Zinc	213.86		20	1.0	P
Cyanide			10		NR

Comments:

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Instrument Detection Limits (Quarterly)

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__
Lab Code: AATS__ Case No.: 27981 SAS No.: _____ SDG No.: MCTT42
ICP ID Number: TJA_61E_____ Date: 04/12/00
Flame AA ID Number : _____
Furnace AA ID Number : _____

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum	308.21		200	16.0	P
Antimony			60		NR
Arsenic			10		NR
Barium			200		NR
Beryllium	313.04		5	1.0	P
Cadmium			5		NR
Calcium			5000		NR
Chromium			10		NR
Cobalt	228.62		50	6.0	P
Copper			25		NR
Iron			100		NR
Lead			3		NR
Magnesium	279.08		5000	18.0	P
Manganese			15		NR
Mercury			0.2		NR
Nickel			40		NR
Potassium	766.49		5000	408.0	P
Selenium			5		NR
Silver	328.07		10	3.0	P
Sodium	588.99		5000	60.0	P
Thallium			10		NR
Vanadium	292.40		50	5.0	P
Zinc			20		NR
Cyanide			10		NR

Comments:

U.S. EPA - CLP

10
Instrument Detection Limits (Quarterly)

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__
Lab Code: AATS__ Case No.: 27981 SAS No.: _____ SDG No.: MCTT42
ICP ID Number: _____ Date: 03/28/00
Flame AA ID Number : LEEMAN_B____
Furnace AA ID Number : _____

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200		NR
Antimony			60		NR
Arsenic			10		NR
Barium			200		NR
Beryllium			5		NR
Cadmium			5		NR
Calcium			5000		NR
Chromium			10		NR
Cobalt			50		NR
Copper			25		NR
Iron			100		NR
Lead			3		NR
Magnesium			5000		NR
Manganese			15		NR
Mercury	254.00		0.2	0.1	CV
Nickel			40		NR
Potassium			5000		NR
Selenium			5		NR
Silver			10		NR
Sodium			5000		NR
Thallium			10		NR
Vanadium			50		NR
Zinc			20		NR
Cyanide			10		NR

Comments:

10
Instrument Detection Limits (Quarterly)

ɔ Name: AMERICAN_ANALYTICAL_AND_T
ıb Code: AATS__ Case No.: 27981
CP ID Number: _____
'lame AA ID Number : LACHAT_____
Furnace AA ID Number : _____

Contract: 68W00086__
SAS No.: _____ SDG No.: MCTT42
Date: 03/20/00

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200		NR
Antimony			60		NR
Arsenic			10		NR
Barium			200		NR
Beryllium			5		NR
Cadmium			5		NR
Calcium			5000		NR
Chromium			10		NR
Cobalt			50		NR
Copper			25		NR
Iron			100		NR
Lead			3		NR
Magnesium			5000		NR
Manganese			15		NR
Mercury			0.2		NR
Nickel			40		NR
Potassium			5000		NR
Selenium			5		NR
Silver			10		NR
Sodium			5000		NR
Thallium			10		NR
Vanadium			50		NR
Zinc			20		NR
Cyanide	578.00		10	1.0	CA

Comments:

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
ENVIRONMENTAL SCIENCE CENTER
701 MAPES ROAD
FORT MEADE, MD 20755-5350

DATE : June 8, 2000

SUBJECT: Region III Data QA Review

FROM : [redacted]
Region III ESAT RPO (3ES20)

TO : William Wentworth
Regional Program Manager (3HS34)

Attached is the organic data validation report for the New Jersey Fireworks site (Case#: 27981, SDG#: CSL45, CSL55) 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 at (410) 305-2629.

Attachment

cc: Alan Fong (MDE)

WA File: 0300402 TDF# 0541

RECEIVED
JUN 14 2000
ERRP

OFFICE OF ANAYTICAL SERVICES AND QUALITY ASSURANCE

Lockheed Martin Environmental Services
US EPA Environmental Science Center
701 Mapes Road Ft. Meade, MD 20755-5350
Telephone 410-305-3037 Facsimile 410-305-3597

LOCKHEED MARTIN

DATE: June 7, 2000

SUBJECT: Level M3 Organic Data Validation for Case 27981
SDGs: CSL45 and CSL55
Site: New Jersey Fireworks

FROM: [redacted]
Organic Data Reviewer

[redacted]
Senior Organic Data Reviewer

TO: [redacted]
ESAT Regional Project Officer

OVERVIEW

Case 27981, Sample Delivery Groups (SDGs) CSL45 and CSL55, consisted of twelve (12) aqueous and fourteen (14) soil samples submitted to Envirosystems, Inc. (ENVSYS) for volatile, semivolatile and pesticide/PCB analyses. The sample set included one (1) trip blank, one (1) field blank, one (1) aqueous field duplicate pair and one (1) soil field duplicate pair. The trip blank was analyzed solely for volatiles. Samples were analyzed according to Contract Laboratory Program (CLP) Statement of Work (SOW) OLM04.2 through Routine Analytical Services (RAS) program.

SUMMARY

Data were validated according to Region III Modifications to the National Functional Guidelines for Organic Data Review, Level M3. All samples were successfully analyzed for all target compounds except those qualified "R" as noted in "MAJOR PROBLEMS" section.

MAJOR PROBLEMS

- Response Factors (RFs) were less than 0.05 for 3-nitroaniline in semivolatile initial and/or continuing calibrations. No positive results were reported for 3-nitroaniline. Quantitation limits for this compound in all samples were rejected and qualified "R" on Data Summary Forms (DSFs).

- Pesticide/PCB soil samples CSL66 and CSL68 had recoveries of both surrogates less than or equal to ten percent ($\leq 10\%$) on both analytical columns. Examination of the chromatograms did not reveal the cause of these low surrogate recoveries. No positive results were reported. Quantitation limits were qualified "R".

MINOR PROBLEMS

- Semivolatile soil sample CSL60, collected 04/20/00, was re-extracted 5/5/00 due to surrogate outliers in the initial extraction. Although no extraction holding time has been established for soil samples, the technical holding time of seven (7) days for aqueous samples has been exceeded by eight (8) days. Aqueous technical holding time criteria were applied. Positive results were qualified "J", except when superseded by "B". Quantitation limits were qualified "UJ", except when superseded by "R". Contractual holding time of ten (10) days from Validated Time of Sample Receipt (VTSR) has been exceeded by three (3) days.

- Several compounds failed precision criteria [Percent Relative Standard Deviation (%RSD) and/or Percent Difference (% D)] in volatile and semivolatile initial and/or continuing calibrations. Positive results were qualified "J". Quantitation limits were qualified "UJ" for those compounds with a %D greater than fifty percent (> 50%), except when superseded by "R".

- Positive results for pesticide/PCB compounds with percent differences (%D) greater than twenty-five percent (>25%) between the two analytical columns were qualified "J". See Data Summary Forms (DSFs) in Appendix B and Form X Pest-1 for %D in Appendix E.

- Area counts for Internal Standards (ISs) were outside required QC limits for volatile initial and re-analyses of samples CSL60 and CSL67 (SDG CSL55) as listed below. Results for sample CSL60 were reported from the re-analysis and identified on the DSF by the suffix "RE". Results for sample CSL67 were reported from the initial analysis. The positive result for toluene in sample CSL60 was qualified "J". Quantitation limits for affected compounds were qualified "UJ" based on these internal standard outliers.

	Area Counts		
Sample Number	IS1	IS2	IS3
CSL60		low	low
CSL60 RE			low
CSL67			low
CSL67 RE			low

IS1 = bromochloromethane, IS2 = 1,4-difluorobenzene, IS3 = chlorobenzene-d5

- Semivolatile analyses of samples CSL49 and CSL51 through CSL54 (SDG CSL45) had recoveries of base/neutral surrogates 2-fluorobiphenyl and terphenyl-d14 outside lower Quality Control (QC) limits. Additionally, samples CSL51 and CSL52 had nitrobenzene-d5 and advisory acid surrogate 2-chlorophenol-d4 outside lower QC limits. These samples were not reanalyzed due to insufficient sample volume. No positive results were reported. Quantitation limits for base/neutral compounds in these samples were qualified "UL", except when superseded by "UJ" or "R".

- Pesticide/PCB analysis of sample CSL45 (SDG CSL45) had recoveries of both surrogates (tetrachloro-m-xylene (TCX) and decachlorobiphenyl (DCB)) outside the lower QC limit on both analytical columns. No positive results were reported. Quantitation limits were qualified "UL".

- Pesticide/PCB analyses of samples CSL49 and CSL53 (SDG CSL45) had recoveries of surrogate DCB outside the lower QC limit on both analytical columns. Positive results were qualified "J". Quantitation limits were qualified "UJ".

NOTES

- Semivolatile soil samples CSL62 and CSL67, collected 04/21/00, were re-extracted 5/5/00 due to surrogate outliers in the initial extraction. Although no extraction holding time has been established for soil samples, the technical holding time of seven (7) days for aqueous samples has been exceeded by seven (7) days. Contractual holding time of ten (10) days from Validated Time of Sample Receipt (VTSR) was exceeded by three (3) days. Due to persistence of these compounds in the soil environment, no data were qualified.

- All raw data supporting semivolatile tune standards dated 05/01/00 at 09:05 and 05/04/00 at 14:05 were not present in SDG CSL55.

- Maximum concentrations of all target compounds found in analyses of trip, field, method and storage blanks are listed below. Samples with concentrations of these common laboratory contaminants less than ten times (< 10X) blank concentration have been qualified "B".

Compound	Concentration
diethylphthalate*	5 J μg/L
di-n-butylphthalate*	85 J μg/Kg

* common laboratory contaminant

- Semivolatile analyses of samples CSL45, CSL47, CSL48, CSL70 (SDG CSL45), and CSL65 (SDG CSL55) had recoveries for base/neutral surrogates 2-fluorobiphenyl outside lower QC limits. Additionally, sample CSL65 had advisory base/neutral surrogate 1,2-dichlorobenzene-d4 outside lower QC limits. No data were qualified based on single base/neutral surrogate recovery outliers or the advisory base/neutral surrogate.

- Pesticide/PCB analyses of samples CSL50, CSL54 (SDG CSL45) and CSL67 (SDG CSL55) had recovery of surrogate decachlorobiphenyl (DCB) outside lower QC limits on one analytical column. No data were qualified based on these single surrogate outliers.

- Semivolatile Matrix Spike/Matrix Spike Duplicate (MS/MSD) analyses of sample CSL62 (SDG CSL55) had recovery of n-nitroso-di-n-propylamine below the lower QC limits. No data were qualified based on these MS/MSD outliers.

- Pesticide/PCB Matrix Spike/Matrix Spike Duplicate (MS/MSD) analyses of sample CSL45 (SDG CSL45) had recovery of endrin above the upper QC limits. No data were qualified based on these MS/MSD outliers.

- Tentatively identified compounds (TICs) in Appendix D were reviewed during data validation. Compounds identified as aldol condensation products, blank and common laboratory contaminants were crossed off the TIC Form Is by reviewer.

- Compounds detected below Contract Required Quantitation Limits (CRQLs) were qualified "J", except when superseded by "B". See DSFs in Appendix B.

- Volatile Forms 1A, 1B and 1F for sample CSL65 (SDG CSL55) incorrectly indicated the date received as 04/22/00 instead of 04/24/00. These forms and a memo to file were submitted by the laboratory correcting this date.

- No heated purge was indicated for any of the volatile soil samples on Form V VOA. A heated purge should be used for low level soil/sediment analysis.

- Several discrepancies were noted between percent moistures indicated on sample Form Is and those indicated by the percent moisture determinations. Specifically, discrepancies were noted for volatile sample CSL61 (SDG CSL55), semivolatile samples CSL57 and CSL69 (SDG CSL55) and pesticide/PCB samples CSL56, CSL61 and CSL68 (SDG CSL55). Percent moistures are correctly indicated on DSFs in Appendix B. When significant, CRQLs were adjusted on Form Is by the reviewer. See "Soil Percent Moisture Determination - Gravimetric" in Appendix E.

All data for Case 27981, SDGs CSL45 and CSL55, were reviewed in accordance with Region III Modifications to the National Functional Guidelines for Organic Data Review, September 1994.

ATTACHMENTS

1)	Appendix A	Glossary of Data Qualifier Terms
2)	Appendix B	Data Summary Forms
3)	Appendix C	Form I s
4)	Appendix D	Tentatively Identified Compounds
5)	Appendix E	Support Documentation

DCN:27981.wpd

Appendix A

Glossary of Data Qualifiers

GLOSSARY OF DATA QUALIFIER CODES (ORGANIC)

CODES RELATED 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 = Unusable 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

NJ = Qualitative identification questionable due to poor resolution. Presumptively present at approximate quantity.

Q = No analytical result.

Appendix B

Data Summary Forms

DATA SUMMARY FORM: VOLATILES

Case # 27981 | SDG : CSL45 | Number of Soil Samples 0
Site : | NEW JERSEY FIREWORKS | Number of Water Samples 12
Lab. | ENVSYS

Sample Number		CSL45		CSL46		CSL47		CSL48		CSL49	
Sampling Location		GW-1		GW-2		GW-3		GW-4		GW-5	
Matrix		Water		Water		Water		Water		Water	
Units		ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled		04/20/2000		04/20/2000		04/20/2000		04/20/2000		04/20/2000	
Time Sampled		12:30		10 30		11 15		10 45		10 15	
%Moisture :		N/A		N/A		N/A		N/A		N/A	
pH :		2		2		2		2		2	
Dilution Factor		1.0		1.0		1 0		1.0		1 0	
Volatile Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	10										
Chloromethane	10										
*Vinyl Chloride	10										
Bromomethane	10										
Chloroethane	10										
Trichlorofluoromethane	10										
*1,1-Dichloroethene	10										
1,1,2-Trichloro-1,2,2-trifluoroethane	10										
Acetone	10										
Carbon Disulfide	10										
Methyl Acetate	10										
*Methylene Chloride	10										
trans-1,2-Dichloroethene	10										
Methyl tert-Butyl Ether	10										
1,1-Dichloroethane	10										
cis-1,2-Dichloroethene	10										
*2-Butanone	10										
Chloroform	10										
*1,1,1-Trichloroethane	10										
Cyclohexane	10										
*Carbon Tetrachloride	10										
*Benzene	10										
*1,2-Dichloroethane	10										
Trichloroethene	10										
Methylcyclohexane	10										
*1,2-Dichloropropane	10										
Bromodichloromethane	10										
cis-1,3-Dichloropropene	10										
4-Methyl-2-pentanone	10										
*Toluene	10										
trans-1,3-Dichloropropene	10										
1,1,2-Trichloroethane	10										
*Tetrachloroethene	10										

CRQL = Contract Required Quantitation Limit | SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (CRQL * Dilution Factor) / (100 - %Moisture) / 100 | Revised 09/99

DATA SUMMARY FORM: VOLATILES

Case # 27981 SDG CSL45
Site NEW JERSEY FIREWORKS
Lab ENVSYS

Sample Number		CSL45		CSL46		CSL47		CSL48		CSL49	
Sampling Location		GW-1		GW-2		GW-3		GW-4		GW-5	
Matrix :		Water		Water		Water		Water		Water	
Units		ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled		04/20/2000		04/20/2000		04/20/2000		04/20/2000		04/20/2000	
Time Sampled		12:30		10:30		11:15		10:45		10:15	
%Moisture :		N/A		N/A		N/A		N/A		N/A	
pH :		2		2		2		2		2	
Dilution Factor		1.0		1.0		1.0		1.0		1.0	
Volatile Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2-Hexanone	10										
Dibromochloromethane	10										
1,2-Dibromoethane	10										
*Chlorobenzene	10										
*Ethylbenzene	10										
Xylenes (total)	10										
*Styrene	10										
Bromoform	10										
Isopropylbenzene	10										
1,1,2,2-Tetrachloroethane	10										
*1,3-Dichlorobenzene	10										
*1,4-Dichlorobenzene	10										
1,2-Dichlorobenzene	10										
1,2-Dibromo-3-chloropropane	10										
1,2,4-Trichlorobenzene	10										

CRQL = Contract Required Quantitation Limit *Action Level Exists SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits multiply the CRQL by the Dilution Factor Revised 09/99

DATA SUMMARY FORM: VOLATILES

Case # 27981 SDG CSL45
Site : NEW JERSEY FIREWORKS
Lab ENVSYS

Sample Number		CSL50		CSL51		CSL52		CSL53		CSL54	
Sampling Location		SW-1		SW-2		SW-3		SW-4		SW-5	
Field QC:								Duplicate(CSL54)		Duplicate(CSL53)	
Matrix :		Water		Water		Water		Water		Water	
Units :		ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled		04/20/2000		04/20/2000		04/20/2000		04/20/2000		04/20/2000	
Time Sampled		12:00		10:00		09:45		11:15		13:00	
%Moisture :		N/A		N/A		N/A		N/A		N/A	
pH :		2		2		2		2		2	
Dilution Factor		1.0		1.0		1.0		1.0		1.0	
Volatile Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	10										
Chloromethane	10										
*Vinyl Chloride	10										
Bromomethane	10										
Chloroethane	10										
Trichlorofluoromethane	10										
*1,1-Dichloroethene	10										
1,1,2-Trichloro-1,2,2-trifluoroethane	10										
Acetone	10										
Carbon Disulfide	10										
Methyl Acetate	10										
*Methylene Chloride	10										
trans-1,2-Dichloroethene	10										
Methyl tert-Butyl Ether	10										
1,1-Dichloroethane	10										
cis-1,2-Dichloroethene	10										
*2-Butanone	10										
Chloroform	10										
*1,1,1-Trichloroethane	10										
Cyclohexane	10										
*Carbon Tetrachloride	10										
*Benzene	10										
*1,2-Dichloroethane	10										
Trichloroethene	10										
Methylcyclohexane	10										
*1,2-Dichloropropane	10										
Bromodichloromethane	10										
cis-1,3-Dichloropropene	10										
4-Methyl-2-pentanone	10										
*Toluene	10										
trans-1,3-Dichloropropene	10										
1,1,2-Trichloroethane	10										
*Tetrachloroethene	10										

CRQL = Contract Required Quantitation Limit

SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (CRQL * Dilution Factor) / (100 - %Moisture) / 100

Revised 09/99

DATA SUMMARY FORM: VOLATILES

Case #: 27981 SDG CSL45
Site NEW JERSEY FIREWORKS
Lab. ENVSYS

Sample Number		CSL50		CSL51		CSL52		CSL53		CSL54	
Sampling Location		SW-1		SW-2		SW-3		SW-4		SW-5	
Field QC								Duplicate(CSL54)		Duplicate(CSL53)	
Matrix		Water		Water		Water		Water		Water	
Units		ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled		04/20/2000		04/20/2000		04/20/2000		04/20/2000		04/20/2000	
Time Sampled		12 00		10:00		09:45		11 15		13 00	
%Moisture		N/A		N/A		N/A		N/A		N/A	
pH		2		2		2		2		2	
Dilution Factor		1 0		1 0		1 0		1 0		1 0	
Volatile Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2-Hexanone	**10**										
Dibromochloromethane	10										
1,2-Dibromoethane	**10**										
*Chlorobenzene	10										
***Ethylbenzene**	**10**										
Xylenes (total)	10										
***Styrene**	**10**										
Bromoform	10										
Isopropylbenzene	**10**										
1,1,2,2-Tetrachloroethane	10										
***1,3-Dichlorobenzene**	**10**										
*1,4-Dichlorobenzene	10										
1,2-Dichlorobenzene	**10**										
1,2-Dibromo-3-chloropropane	10										
1,2,4-Trichlorobenzene	**10**										

CRQL = Contract Required Quantitation Limit *Action Level Exists SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits multiply the CRQL by the Dilution Factor

Revised 09/99

DATA SUMMARY FORM: VOLATILES

Case #: 27981 SDG CSL45
Site : NEW JERSEY FIREWORKS
Lab : ENVSYS

Sample Number		CSL70		CSL71							
Sampling Location		FB-1		TB-1							
Field QC:		Field Blank		Trip Blank							
Matrix		Water		Water							
Units :		ug/L		ug/L							
Date Sampled		04/20/2000		04/20/2000							
Time Sampled		10:00		09:45							
%Moisture :		N/A		N/A							
pH		2		2							
Dilution Factor		1.0		1.0							
Volatile Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	10										
Chloromethane	10										
*Vinyl Chloride	10										
Bromomethane	10										
Chloroethane	10										
Trichlorofluoromethane	10										
*1,1-Dichloroethene	10										
1,1,2-Trichloro-1,2,2-trifluoroethane	10										
Acetone	10										
Carbon Disulfide	10										
Methyl Acetate	10										
*Methylene Chloride	10										
trans-1,2-Dichloroethene	10										
Methyl tert-Butyl Ether	10										
1,1-Dichloroethane	10										
cis-1,2-Dichloroethene	10										
*2-Butanone	10										
Chloroform	10										
*1,1,1-Trichloroethane	10										
Cyclohexane	10										
*Carbon Tetrachloride	10										
*Benzene	10										
*1,2-Dichloroethane	10										
Trichloroethene	10										
Methylcyclohexane	10										
*1,2-Dichloropropane	10										
Bromodichloromethane	10										
cis-1,3-Dichloropropene	10										
4-Methyl-2-pentanone	10										
*Toluene	10										
trans-1,3-Dichloropropene	10										
1,1,2-Trichloroethane	10										
*Tetrachloroethene	10										

CRQL = Contract Required Quantitation Limit

SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (CRQL * Dilution Factor) / (100 - %Moisture) / 100

Revised 09/99

DATA SUMMARY FORM: VOLATILES

Case # 27981 SDG CSL45
Site NEW JERSEY FIREWORKS
Lab. ENVSYS

Sample Number		CSL70		CSL71							
Sampling Location		FB-1		TB-1							
Field QC:		Field Blank		Trip Blank							
Matrix :		Water		Water							
Units		ug/L		ug/L							
Date Sampled		04/20/2000		04/20/2000							
Time Sampled		10 00		09:45							
%Moisture :		N/A		N/A							
pH		2		2							
Dilution Factor		1.0		1.0							
Volatile Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2-Hexanone	**10**										
Dibromochloromethane	10										
1,2-Dibromoethane	**10**										
*Chlorobenzene	10										
***Ethylbenzene**	**10**										
Xylenes (total)	10										
***Styrene**	**10**										
Bromoform	10										
Isopropylbenzene	**10**										
1,1,2,2-Tetrachloroethane	10										
***1,3-Dichlorobenzene**	**10**										
*1,4-Dichlorobenzene	10										
1,2-Dichlorobenzene	**10**										
1,2-Dibromo-3-chloropropane	10										
1,2,4-Trichlorobenzene	**10**										

CRQL = Contract Required Quantitation Limit *Action Level Exists SEE NARRATIVE FOR CODE DEFINITIONS
To calculate sample quantitation limits multiply the CRQL by the Dilution Factor Revised 09/99

DATA SUMMARY FORM: VOLATILES

Case # 27981 | SDG : CSL55 | Number of Soil Samples 14
Site NEW JERSEY FIREWORKS | Number of Water Samples 0
Lab ENVSYS

Sample Number		CSL55		CSL56		CSL57		CSL58		CSL60RE	
Sampling Location		SED-1		SED-2		SED-3		SED-4		S-1	
Matrix		Soil		Soil		Soil		Soil		Soil	
Units		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled		04/20/2000		04/20/2000		04/20/2000		04/20/2000		04/20/2000	
Time Sampled		12:00		10:00		07:45		11 05		12 45	
%Moisture :		15		24		44		26		24	
pH :											
Dilution Factor		1 0		1 0		1 0		1 0		1 0	
Volatile Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	10										
Chloromethane	10										
Vinyl Chloride	10										
Bromomethane	10										
Chloroethane	10										
Trichlorofluoromethane	10										
1,1-Dichloroethene	10										
1,1,2-Trichloro-1,2 2-trifluoroethane	10										
Acetone	10										
Carbon Disulfide	10										
Methyl Acetate	10										
Methylene Chloride	10										
trans-1,2-Dichloroethene	10										
Methyl tert-Butyl Ether	10										
1,1-Dichloroethane	10										
cis-1,2-Dichloroethene	10										
2-Butanone	10										
Chloroform	10										
1,1,1-Trichloroethane	10										
Cyclohexane	10										
Carbon Tetrachloride	10										
Benzene	10										
1,2-Dichloroethane	10										
Trichloroethene	10										
Methylcyclohexane	10										
1,2-Dichloropropane	10										
Bromodichloromethane	10										
cis-1,3-Dichloropropene	10										
4-Methyl-2-pentanone	10										UJ
Toluene	10									4	J
trans-1,3-Dichloropropene	10										
1,1,2-Trichloroethane	10										
Tetrachloroethene	10										UJ

CRQL = Contract Required Quantitation Limit
To calculate sample quantitation limits: (CRQL * Dilution Factor) / (100 - %Moisture) / 100

SEE NARRATIVE FOR CODE DEFINITIONS
Revised 09/99

DATA SUMMARY FORM: VOLATILES

Case #: 27981 SDG: CSL55
Site: NEW JERSEY FIREWORKS
Lab: ENVSYS

Sample Number		CSL55		CSL56		CSL57		CSL58		CSL60RE	
Sampling Location		SED-1		SED-2		SED-3		SED-4		S-1	
Matrix		Soil		Soil		Soil		Soil		Soil	
Units:		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled		04/20/2000		04/20/2000		04/20/2000		04/20/2000		04/20/2000	
Time Sampled		12:00		10:00		07 45		11 05		12 45	
%Moisture:		15		24		44		26		24	
pH:											
Dilution Factor		1.0		1.0		1.0		1.0		1.0	
Volatile Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2-Hexanone	**10**										**UJ**
Dibromochloromethane	10										
1,2-Dibromoethane	**10**										**UJ**
Chlorobenzene	10										UJ
Ethylbenzene	**10**										**UJ**
Xylenes (total)	10										UJ
Styrene	**10**										**UJ**
Bromoform	10										
Isopropylbenzene	**10**										**UJ**
1,1,2,2-Tetrachloroethane	10										UJ
1,3-Dichlorobenzene	**10**										**UJ**
1,4-Dichlorobenzene	10										UJ
1,2-Dichlorobenzene	**10**										**UJ**
1,2-Dibromo-3-chloropropane	10										UJ
1,2,4-Trichlorobenzene	**10**										**UJ**

CRQL = Contract Required Quantitation Limit

SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (CRQL * Dilution Factor) / (100 - %Moisture) / 100

Revised 09/99

DATA SUMMARY FORM: VOLATILES

Case #: 27981 SDG : CSL55
Site : NEW JERSEY FIREWORKS
Lab : ENVSYS

Sample Number		CSL61		CSL62		CSL63		CSL64		CSL65	
Sampling Location		S-2		S-3		S-4		S-5		S-6	
Field QC:						Duplicate(CSL69)					
Matrix		Soil		Soil		Soil		Soil		Soil	
Units		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled		04/21/2000		04/21/2000		04/21/2000		04/20/2000		04/21/2000	
Time Sampled		08 45		08:30		09 00		10 05		09 25	
%Moisture :		24		18		18		31		12	
pH											
Dilution Factor		1.0		1.0		1 0		1 0		1.0	
Volatile Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	10										
Chloromethane	10										
Vinyl Chloride	10										
Bromomethane	10										
Chloroethane	10										
Trichlorofluoromethane	10										
1,1-Dichloroethene	10					8	J				
1,1,2-Trichloro-1,2,2-trifluoroethane	10										
Acetone	10							37	J		
Carbon Disulfide	10										
Methyl Acetate	10										
Methylene Chloride	10										
trans-1,2-Dichloroethene	10										
Methyl tert-Butyl Ether	10										
1,1-Dichloroethane	10					3	J				
cis-1,2-Dichloroethene	10										
2-Butanone	10										
Chloroform	10										
1,1,1-Trichloroethane	10					16					
Cyclohexane	10										
Carbon Tetrachloride	10										
Benzene	10										
1,2-Dichloroethane	10										
Trichloroethene	10										
Methylcyclohexane	10										
1,2-Dichloropropane	10										
Bromodichloromethane	10										
cis-1,3-Dichloropropene	10										
4-Methyl-2-pentanone	10										
Toluene	10										
trans-1,3-Dichloropropene	10										
1,1,2-Trichloroethane	10										
Tetrachloroethene	10					9	J				

CRQL = Contract Required Quantitation Limit SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (CRQL * Dilution Factor) / (100 - %Moisture) / 100 Revised 09/99

DATA SUMMARY FORM: VOLATILES

Case # 27981 SDG : CSL55
Site : NEW JERSEY FIREWORKS
Lab. ENVSYS

Sample Number		CSL61		CSL62		CSL63		CSL64		CSL65	
Sampling Location :		S-2		S-3		S-4		S-5		S-6	
Field QC:						Duplicate(CSL69)					
Matrix :		Soil		Soil		Soil		Soil		Soil	
Units :		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled		04/21/2000		04/21/2000		04/21/2000		04/20/2000		04/21/2000	
Time Sampled		08 45		08:30		09:00		10 05		09 25	
%Moisture :		24		18		18		31		12	
pH											
Dilution Factor		1.0		1.0		1.0		1.0		1.0	
Volatile Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2-Hexanone	**10**										
Dibromochloromethane	10										
1,2-Dibromoethane	**10**										
Chlorobenzene	10										
Ethylbenzene	**10**										
Xylenes (total)	10										
Styrene	**10**										
Bromoform	10										
Isopropylbenzene	**10**										
1,1,2,2-Tetrachloroethane	10										
1,3-Dichlorobenzene	**10**										
1,4-Dichlorobenzene	10										
1,2-Dichlorobenzene	**10**										
1,2-Dibromo-3-chloropropane	10										
1,2,4-Trichlorobenzene	**10**										

CRQL = Contract Required Quantitation Limit SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (CRQL * Dilution Factor) / (100 - %Moisture) / 100 Revised 09/99

DATA SUMMARY FORM: VOLATILES

Case # 27981 SDG CSL55
Site NEW JERSEY FIREWORKS
Lab ENVSYS

Sample Number		CSL66		CSL67		CSL68		CSL69			
Sampling Location		S-7		S-8		S-9		S-10			
Field QC:								Duplicate(CSL63)			
Matrix :		Soil		Soil		Soil		Soil			
Units :		ug/Kg		ug/Kg		ug/Kg		ug/Kg			
Date Sampled		04/21/2000		04/21/2000		04/21/2000		04/21/2000			
Time Sampled		09 50		09 40		09 45		09 00			
%Moisture :		18		19		18		29			
pH :											
Dilution Factor :		1.0		1.0		1.0		1.0			
Volatile Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	**10**										
Chloromethane	10										
Vinyl Chloride	**10**										
Bromomethane	10										
Chloroethane	**10**										
Trichlorofluoromethane	10										
1,1-Dichloroethene	**10**										
1,1,2-Trichloro-1,2,2-trifluoroethane	10										
Acetone	**10**										
Carbon Disulfide	10										
Methyl Acetate	**10**										
Methylene Chloride	10										
trans-1,2-Dichloroethene	**10**										
Methyl tert-Butyl Ether	10										
1,1-Dichloroethane	**10**										
cis-1,2-Dichloroethene	10										
2-Butanone	**10**					**14**	**J**	**17**	**J**		
Chloroform	10										
1,1,1-Trichloroethane	**10**										
Cyclohexane	10										
Carbon Tetrachloride	**10**										
Benzene	10										
1,2-Dichloroethane	**10**										
Trichloroethene	10										
Methylcyclohexane	**10**										
1,2-Dichloropropane	10										
Bromodichloromethane	**10**										
cis-1,3-Dichloropropene	10										
4-Methyl-2-pentanone	**10**				**UJ**						
Toluene	10				UJ						
trans-1,3-Dichloropropene	**10**										
1,1,2-Trichloroethane	10										
Tetrachloroethene	**10**				**UJ**						

CRQL = Contract Required Quantitation Limit SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (CRQL * Dilution Factor) / (100 - %Moisture) / 100 Revised 09/99

DATA SUMMARY FORM: VOLATILES

Case #: 27981 SDG CSL55
Site NEW JERSEY FIREWORKS
Lab. : ENVSYS

Sample Number		CSL66		CSL67		CSL68		CSL69			
Sampling Location		S-7		S-8		S-9		S-10			
Field QC								Duplicate(CSL63)			
Matrix :		Soil		Soil		Soil		Soil			
Units :		ug/Kg		ug/Kg		ug/Kg		ug/Kg			
Date Sampled		04/21/2000		04/21/2000		04/21/2000		04/21/2000			
Time Sampled		09:50		09:40		09:45		09:00			
%Moisture :		18		19		18		29			
pH :											
Dilution Factor		1.0		1.0		1.0		1.0			
Volatile Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2-Hexanone	**10**				**UJ**						
Dibromochloromethane	10										
1,2-Dibromoethane	**10**				**UJ**						
Chlorobenzene	10				UJ						
Ethylbenzene	**10**				**UJ**						
Xylenes (total)	10				UJ						
Styrene	**10**				**UJ**						
Bromoform	10										
Isopropylbenzene	**10**				**UJ**						
1,1,2,2-Tetrachloroethane	10				UJ						
1,3-Dichlorobenzene	**10**				**UJ**						
1,4-Dichlorobenzene	10				UJ						
1,2-Dichlorobenzene	**10**				**UJ**						
1,2-Dibromo-3-chloropropane	10				UJ						
1,2,4-Trichlorobenzene	**10**				**UJ**						

CRQL = Contract Required Quantitation Limit SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (CRQL * Dilution Factor) / (100 - %Moisture) / 100 Revised 09/99

DATA SUMMARY FORM: BNA

Case #: 27981 SDG: CSL45 Number of Soil Samples 0
Site: NEW JERSEY FIREWORKS Number of Water Samples 11
Lab: ENVSYS

Sample Number		CSL45		CSL46		CSL47		CSL48		CSL49	
Sampling Location		GW-1		GW-2		GW-3		GW-4		GW-5	
Matrix:		Water		Water		Water		Water		Water	
Units:		ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled		04/20/2000		04/20/2000		04/20/2000		04/20/2000		04/20/2000	
Time Sampled		12 30		10:30		11:15		10 45		10 15	
%Moisture:		N/A		N/A		N/A		N/A		N/A	
pH:											
Dilution Factor		1 0		1 0		1.0		1.0		1.0	
Semivolatile Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Benzaldehyde	**10**								**UJ**		**UJ**
Phenol	10										
bis-(2-Chloroethyl) ether	**10**										**UL**
2-Chlorophenol	10										
2-Methylphenol	**10**										
2,2'-oxybis(1-Chloropropane)	10										UL
Acetophenone	**10**										**UL**
4-Methylphenol	10										
N-Nitroso-di-n-propylamine	**10**										**UL**
Hexachloroethane	10										UL
Nitrobenzene	**10**										**UL**
Isophorone	10										UL
2-Nitrophenol	**10**										
2,4-Dimethylphenol	10										
bis(2-Chloroethoxy)methane	**10**										**UL**
2,4-Dichlorophenol	10										
Naphthalene	**10**										**UL**
4-Chloroaniline	10										UL
Hexachlorobutadiene	**10**										**UL**
Caprolactam	10										UL
4-Chloro-3-methylphenol	**10**										
2-Methylnaphthalene	10										UL
Hexachlorocyclopentadiene	**10**										**UL**
2,4,6-Trichlorophenol	10										
2,4,5-Trichlorophenol	**25**										
1,1'-Biphenyl	10										UL
2-Chloronaphthalene	**10**										**UL**
2-Nitroaniline	25										UL
Dimethylphthalate	**10**										**UL**
2,6-Dinitrotoluene	10										UL
Acenaphthylene	**10**										**UL**
3-Nitroaniline	25		R		R		R		R		R

CRQL = Contract Required Quantitation Limit SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (CRQL * Dilution Factor) / (100 - %Moisture) / 100

Revised 09/99

DATA SUMMARY FORM: BNA

Case #: 27981 SDG : CSL45
Site NEW JERSEY FIREWORKS
Lab. ENVSYS

Sample Number		CSL45		CSL46		CSL47		CSL48		CSL49	
Sampling Location		GW-1		GW-2		GW-3		GW-4		GW-5	
Matrix		Water		Water		Water		Water		Water	
Units		ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled		04/20/2000		04/20/2000		04/20/2000		04/20/2000		04/20/2000	
Time Sampled		12 30		10:30		11:15		10 45		10 15	
%Moisture :		N/A		N/A		N/A		N/A		N/A	
pH											
Dilution Factor		1.0		1.0		1.0		1.0		1.0	
Semivolatile Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Acenaphthene	**10**										**UL**
2,4-Dinitrophenol	25										
4-Nitrophenol	**25**										
Dibenzofuran	10										UL
2,4-Dinitrotoluene	**10**										**UL**
Diethylphthalate	10										UL
Fluorene	**10**										**UL**
4-Chlorophenyl-phenyl ether	10										UL
4-Nitroaniline	**25**								**UJ**		**UJ**
4,6-Dinitro-2-methylphenol	25										
N-Nitrosodiphenylamine	**10**										**UL**
4-Bromophenyl-phenylether	10										UL
***Hexachlorobenzene**	**10**										**UL**
Atrazine	10										UL
***Pentachlorophenol**	**25**										
Phenanthrene	10										UL
Anthracene	**10**										**UL**
Carbazole	10		UJ		UJ		UJ		UJ		UJ
Di-n-butylphthalate	**10**										**UL**
Fluoranthene	10										UL
Pyrene	**10**										**UL**
Butylbenzylphthalate	10										UL
3,3'-Dichlorobenzidine	**10**										**UL**
Benzo(a)anthracene	10										UL
Chrysene	**10**										**UL**
bis(2-Ethylhexyl)phthalate	10										UL
Di-n-octylphthalate	**10**										**UL**
Benzo(b)fluoranthene	10										UL
Benzo(k)fluoranthene	**10**										**UL**
Benzo(a)pyrene	10										UL
Indeno(1,2,3-cd)pyrene	**10**										**UL**
Dibenzo(a,h)anthracene	10										UL
Benzo(g,h,i)perylene	**10**										**UL**

CRQL = Contract Required Quantitation Limit *Action Level Exists SEE NARRATIVE FOR CODE DEFINITIONS
To calculate sample quantitation limits multiply the CRQL by the Dilution Factor Revised 09/99

DATA SUMMARY FORM: BNA

Case #: 27981 SDG CSL45
Site NEW JERSEY FIREWORKS
Lab. : ENVSYS

Sample Number		CSL50		CSL51		CSL52		CSL53		CSL54	
Sampling Location		SW-1		SW-2		SW-3		SW-4		SW-5	
Field QC:								Duplicate(CSL54)		Duplicate(CSL53)	
Matrix		Water		Water		Water		Water		Water	
Units :		ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled		04/20/2000		04/20/2000		04/20/2000		04/20/2000		04/20/2000	
Time Sampled		12 00		10 00		09:45		11 15		13 00	
%Moisture :		N/A		N/A		N/A		N/A		N/A	
pH											
Dilution Factor		1.0		1.0		1 0		1 0		1 0	
Semivolatile Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Benzaldehyde	**10**		**UJ**		**UJ**		**UJ**		**UJ**		**UJ**
Phenol	10										
bis-(2-Chloroethyl) ether	**10**				**UL**		**UL**		**UL**		**UL**
2-Chlorophenol	10										
2-Methylphenol	**10**										
2,2'-oxybis(1-Chloropropane)	10				UL		UL		UL		UL
Acetophenone	**10**				**UL**		**UL**		**UL**		**UL**
4-Methylphenol	10										
N-Nitroso-di-n-propylamine	**10**				**UL**		**UL**		**UL**		**UL**
Hexachloroethane	10				UL		UL		UL		UL
Nitrobenzene	**10**				**UL**		**UL**		**UL**		**UL**
Isophorone	10				UL		UL		UL		UL
2-Nitrophenol	**10**										
2,4-Dimethylphenol	10										
bis(2-Chloroethoxy)methane	**10**				**UL**		**UL**		**UL**		**UL**
2,4-Dichlorophenol	10										
Naphthalene	**10**				**UL**		**UL**		**UL**		**UL**
4-Chloroaniline	10				UL		UL		UL		UL
Hexachlorobutadiene	**10**				**UL**		**UL**		**UL**		**UL**
Caprolactam	10				UL		UL		UL		UL
4-Chloro-3-methylphenol	**10**										
2-Methylnaphthalene	10				UL		UL		UL		UL
Hexachlorocyclopentadiene	**10**				**UL**		**UL**		**UL**		**UL**
2,4,6-Trichlorophenol	10										
2,4,5-Trichlorophenol	**25**										
1,1'-Biphenyl	10				UL		UL		UL		UL
2-Chloronaphthalene	**10**				**UL**		**UL**		**UL**		**UL**
2-Nitroaniline	25				UL		UL		UL		UL
Dimethylphthalate	**10**				**UL**		**UL**		**UL**		**UL**
2,6-Dinitrotoluene	10				UL		UL		UL		UL
Acenaphthylene	**10**				**UL**		**UL**		**UL**		**UL**
3-Nitroaniline	25		R		R		R		R		R

CRQL = Contract Required Quantitation Limit SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (CRQL * Dilution Factor) / (100 - %Moisture) / 100 Revised 09/99

DATA SUMMARY FORM: BNA

Case # 27981 SDG CSL45
Site : NEW JERSEY FIREWORKS
Lab : ENVSYS

Sample Number		CSL50		CSL51		CSL52		CSL53		CSL54	
Sampling Location		SW-1		SW-2		SW-3		SW-4		SW-5	
Field QC								Duplicate(CSL54)		Duplicate(CSL53)	
Matrix		Water		Water		Water		Water		Water	
Units		ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled		04/20/2000		04/20/2000		04/20/2000		04/20/2000		04/20/2000	
Time Sampled		12.00		10 00		09 45		11 15		13 00	
%Moisture		N/A		N/A		N/A		N/A		N/A	
pH											
Dilution Factor		1.0		1 0		1 0		1 0		1 0	
Semivolatile Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Acenaphthene	**10**				**UL**		**UL**		**UL**		**UL**
2,4-Dinitrophenol	25										
4-Nitrophenol	**25**										
Dibenzofuran	10				UL		UL		UL		UL
2,4-Dinitrotoluene	**10**				**UL**		**UL**		**UL**		**UL**
Diethylphthalate	10				UL		UL		UL		UL
Fluorene	**10**				**UL**		**UL**		**UL**		**UL**
4-Chlorophenyl-phenyl ether	10				UL		UL		UL		UL
4-Nitroaniline	**25**		**UJ**		**UJ**		**UJ**		**UJ**		**UJ**
4,6-Dinitro-2-methylphenol	25										
N-Nitrosodiphenylamine	**10**				**UL**		**UL**		**UL**		**UL**
4-Bromophenyl-phenylether	10				UL		UL		UL		UL
***Hexachlorobenzene**	**10**				**UL**		**UL**		**UL**		**UL**
Atrazine	10				UL		UL		UL		UL
***Pentachlorophenol**	**25**										
Phenanthrene	10				UL		UL		UL		UL
Anthracene	**10**				**UL**		**UL**		**UL**		**UL**
Carbazole	10		UJ		UJ		UJ		UJ		UJ
Di-n-butylphthalate	**10**				**UL**		**UL**		**UL**		**UL**
Fluoranthene	10				UL		UL		UL		UL
Pyrene	**10**				**UL**		**UL**		**UL**		**UL**
Butylbenzylphthalate	10				UL		UL		UL		UL
3,3'-Dichlorobenzidine	**10**				**UL**		**UL**		**UL**		**UL**
Benzo(a)anthracene	10				UL		UL		UL		UL
Chrysene	**10**				**UL**		**UL**		**UL**		**UL**
bis(2-Ethylhexyl)phthalate	10				UL		UL		UL		UL
Di-n-octylphthalate	**10**				**UL**		**UL**		**UL**		**UL**
Benzo(b)fluoranthene	10				UL		UL		UL		UL
Benzo(k)fluoranthene	**10**				**UL**		**UL**		**UL**		**UL**
Benzo(a)pyrene	10				UL		UL		UL		UL
Indeno(1,2,3-cd)pyrene	**10**				**UL**		**UL**		**UL**		**UL**
Dibenzo(a,h)anthracene	10				UL		UL		UL		UL
Benzo(g,h,i)perylene	**10**				**UL**		**UL**		**UL**		**UL**

CRQL = Contract Required Quantitation Limit *Action Level Exists SEE NARRATIVE FOR CODE DEFINITIONS
To calculate sample quantitation limits multiply the CRQL by the Dilution Factor Revised 09/99

DATA SUMMARY FORM: BNA

Case # 27981 SDG CSL45
Site NEW JERSEY FIREWORKS
Lab. ENVSYS

Sample Number		CSL70									
Sampling Location		FB-1									
Field QC:		Field Blank									
Matrix :		Water									
Units :		ug/L									
Date Sampled		04/20/2000									
Time Sampled		10:00									
%Moisture :		N/A									
pH :											
Dilution Factor		1.0									
Semivolatile Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Benzaldehyde	**10**		**UJ**								
Phenol	10										
bis-(2-Chloroethyl) ether	**10**										
2-Chlorophenol	10										
2-Methylphenol	**10**										
2,2'-oxybis(1-Chloropropane)	10										
Acetophenone	**10**										
4-Methylphenol	10										
N-Nitroso-di-n-propylamine	**10**										
Hexachloroethane	10										
Nitrobenzene	**10**										
Isophorone	10										
2-Nitrophenol	**10**										
2,4-Dimethylphenol	10										
bis(2-Chloroethoxy)methane	**10**										
2,4-Dichlorophenol	10										
Naphthalene	**10**										
4-Chloroaniline	10										
Hexachlorobutadiene	**10**										
Caprolactam	10										
4-Chloro-3-methylphenol	**10**										
2-Methylnaphthalene	10										
Hexachlorocyclopentadiene	**10**										
2,4,6-Trichlorophenol	10										
2,4,5-Trichlorophenol	**25**										
1,1'-Biphenyl	10										
2-Chloronaphthalene	**10**										
2-Nitroaniline	25										
Dimethylphthalate	**10**										
2,6-Dinitrotoluene	10										
Acenaphthylene	**10**										
3-Nitroaniline	25		R								

CRQL = Contract Required Quantitation Limit SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (CRQL * Dilution Factor) / (100 - %Moisture) / 100 Revised 09/99

DATA SUMMARY FORM: BNA

Case #: 27981 SDG : CSL45
Site NEW JERSEY FIREWORKS
Lab. : ENVSYS

Sample Number		CSL70									
Sampling Location		FB-1									
Field QC:		Field Blank									
Matrix :		Water									
Units :		ug/L									
Date Sampled		04/20/2000									
Time Sampled		10:00									
%Moisture :		N/A									
pH :											
Dilution Factor		1.0									
Semivolatile Compound	*CRQL*	*Result*	*Flag*	*Result*	*Flag*	*Result*	*Flag*	*Result*	*Flag*	*Result*	*Flag*
Acenaphthene	**10**										
2,4-Dinitrophenol	25										
4-Nitrophenol	**25**										
Dibenzofuran	10										
2,4-Dinitrotoluene	**10**										
Diethylphthalate	10	5	J								
Fluorene	**10**										
4-Chlorophenyl-phenyl ether	10										
4-Nitroaniline	**25**		**UJ**								
4,6-Dinitro-2-methylphenol	25										
N-Nitrosodiphenylamine	**10**										
4-Bromophenyl-phenylether	10										
***Hexachlorobenzene**	**10**										
Atrazine	10										
***Pentachlorophenol**	**25**										
Phenanthrene	10										
Anthracene	**10**										
Carbazole	10		UJ								
Di-n-butylphthalate	**10**										
Fluoranthene	10										
Pyrene	**10**										
Butylbenzylphthalate	10										
3,3'-Dichlorobenzidine	**10**										
Benzo(a)anthracene	10										
Chrysene	**10**										
bis(2-Ethylhexyl)phthalate	10										
Di-n-octylphthalate	**10**										
Benzo(b)fluoranthene	10										
Benzo(k)fluoranthene	**10**										
Benzo(a)pyrene	10										
Indeno(1,2,3-cd)pyrene	**10**										
Dibenzo(a,h)anthracene	10										
Benzo(g,h,i)perylene	**10**										

CRQL = Contract Required Quantitation Limit *Action Level Exists SEE NARRATIVE FOR CODE DEFINITIONS
To calculate sample quantitation limits multiply the CRQL by the Dilution Factor Revised 09/99

DATA SUMMARY FORM: BNA

Case #: 27981 SDG : CSL55
Site NEW JERSEY FIREWORKS
Lab : ENVSYS

Sample Number		CSL55		CSL56		CSL57		CSL58		CSL60	
Sampling Location		SED-1		SED-2		SED-3		SED-4		S-1	
Matrix		Soil		Soil		Soil		Soil		Soil	
Units :		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled		04/20/2000		04/20/2000		04/20/2000		04/20/2000		04/20/2000	
Time Sampled		12:00		10 00		07 45		11 05		12 45	
%Moisture :		15		24		44		26		24	
pH		7		6		7		6		6	
Dilution Factor		1.0		1 0		1 0		1.0		1 0	
Semivolatile Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Acenaphthene	**330**										**UJ**
2,4-Dinitrophenol	830										UJ
4-Nitrophenol	**830**										**UJ**
Dibenzofuran	330										UJ
2,4-Dinitrotoluene	**330**										**UJ**
Diethylphthalate	330										UJ
Fluorene	**330**										**UJ**
4-Chlorophenyl-phenyl ether	330										UJ
4-Nitroaniline	**830**										**UJ**
4,6-Dinitro-2-methylphenol	830										UJ
N-Nitrosodiphenylamine	**330**										**UJ**
4-Bromophenyl-phenylether	330										UJ
Hexachlorobenzene	**330**										**UJ**
Atrazine	330										UJ
Pentachlorophenol	**830**										**UJ**
Phenanthrene	330									160	J
Anthracene	**330**										**UJ**
Carbazole	330		UJ		UJ		UJ		UJ		UJ
Di-n-butylphthalate	**330**									**540**	**B**
Fluoranthene	330									250	J
Pyrene	**330**									**380**	**J**
Butylbenzylphthalate	330										UJ
3,3'-Dichlorobenzidine	**330**										**UJ**
Benzo(a)anthracene	330									150	J
Chrysene	**330**									**260**	**J**
bis(2-Ethylhexyl)phthalate	330			220	J						UJ
Di-n-octylphthalate	**330**										**UJ**
Benzo(b)fluoranthene	330									150	J
Benzo(k)fluoranthene	**330**									**170**	**J**
Benzo(a)pyrene	330									190	J
Indeno(1,2,3-cd)pyrene	**330**									**120**	**J**
Dibenzo(a,h)anthracene	330										UJ
Benzo(g,h,i)perylene	**330**									**110**	**J**

CRQL = Contract Required Quantitation Limit SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (CRQL * Dilution Factor) / (100 - %Moisture) / 100 Revised 09/99

DATA SUMMARY FORM: BNA

Case #: 27981 SDG : CSL55 Number of Soil Samples 14
Site NEW JERSEY FIREWORKS Number of Water Samples 0
Lab. : ENVSYS

Sample Number		CSL55		CSL56		CSL57		CSL58		CSL60	
Sampling Location		SED-1		SED-2		SED-3		SED-4		S-1	
Matrix		Soil		Soil		Soil		Soil		Soil	
Units :		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled		04/20/2000		04/20/2000		04/20/2000		04/20/2000		04/20/2000	
Time Sampled		12:00		10:00		07:45		11:05		12:45	
%Moisture :		15		24		44		26		24	
pH :		7		6		7		6		6	
Dilution Factor		1.0		1.0		1.0		1.0		1.0	
Semivolatile Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Benzaldehyde	**330**		**UJ**		**UJ**		**UJ**		**UJ**		**UJ**
Phenol	330										UJ
bis-(2-Chloroethyl) ether	**330**										**UJ**
2-Chlorophenol	330										UJ
2-Methylphenol	**330**										**UJ**
2,2'-oxybis(1-Chloropropane)	330										UJ
Acetophenone	**330**										**UJ**
4-Methylphenol	330										UJ
N-Nitroso-di-n-propylamine	**330**										**UJ**
Hexachloroethane	330										UJ
Nitrobenzene	**330**										**UJ**
Isophorone	330										UJ
2-Nitrophenol	**330**										**UJ**
2,4-Dimethylphenol	330										UJ
bis(2-Chloroethoxy)methane	**330**										**UJ**
2,4-Dichlorophenol	330										UJ
Naphthalene	**330**										**UJ**
4-Chloroaniline	330										UJ
Hexachlorobutadiene	**330**										**UJ**
Caprolactam	330										UJ
4-Chloro-3-methylphenol	**330**										**UJ**
2-Methylnaphthalene	330										UJ
Hexachlorocyclopentadiene	**330**										**UJ**
2,4,6-Trichlorophenol	330										UJ
2,4,5-Trichlorophenol	**830**										**UJ**
1,1'-Biphenyl	330										UJ
2-Chloronaphthalene	**330**										**UJ**
2-Nitroaniline	830										UJ
Dimethylphthalate	**330**										**UJ**
2,6-Dinitrotoluene	330										UJ
Acenaphthylene	**330**										**UJ**
3-Nitroaniline	830		R		R		R		R		R

CRQL = Contract Required Quantitation Limit SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits (CRQL * Dilution Factor) / (100 - %Moisture) / 100 Revised 09/99

DATA SUMMARY FORM: BNA

Case #: 27981 SDG CSL55
Site NEW JERSEY FIREWORKS
Lab. : ENVSYS

Sample Number		CSL61		CSL62		CSL63		CSL64		CSL65	
Sampling Location		S-2		S-3		S-4		S-5		S-6	
Field QC:						Duplicate(CSL69)					
Matrix		Soil		Soil		Soil		Soil		Soil	
Units		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled		04/21/2000		04/21/2000		04/21/2000		04/20/2000		04/21/2000	
Time Sampled		08 45		08 30		09:00		10 05		09 25	
%Moisture :		24		18		18		31		12	
pH		5		6		6		5		5	
Dilution Factor		1.0		1.0		1 0		1 0		1 0	
Semivolatile Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Benzaldehyde	**330**		**UJ**				**UJ**		**UJ**		**UJ**
Phenol	330										
bis-(2-Chloroethyl) ether	**330**										
2-Chlorophenol	330										
2-Methylphenol	**330**										
2,2'-oxybis(1-Chloropropane)	330										
Acetophenone	**330**										
4-Methylphenol	330										
N-Nitroso-di-n-propylamine	**330**										
Hexachloroethane	330										
Nitrobenzene	**330**										
Isophorone	330										
2-Nitrophenol	**330**										
2,4-Dimethylphenol	330										
bis(2-Chloroethoxy)methane	**330**										
2,4-Dichlorophenol	330										
Naphthalene	**330**										
4-Chloroaniline	330										
Hexachlorobutadiene	**330**										
Caprolactam	330										
4-Chloro-3-methylphenol	**330**										
2-Methylnaphthalene	330										
Hexachlorocyclopentadiene	**330**										
2,4,6-Trichlorophenol	330										
2,4,5-Trichlorophenol	**830**										
1,1'-Biphenyl	330										
2-Chloronaphthalene	**330**										
2-Nitroaniline	830										
Dimethylphthalate	**330**										
2,6-Dinitrotoluene	330										
Acenaphthylene	**330**										
3-Nitroaniline	830		R		R		R		R		R

CRQL = Contract Required Quantitation Limit SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (CRQL * Dilution Factor) / (100 - %Moisture) / 100 Revised 09/99

Case #: 27981 SDG: CSL55
Site: NEW JERSEY FIREWORKS
Lab: ENVSYS

Sample Number		CSL61		CSL62		CSL63		CSL64		CSL65	
Sampling Location		S-2		S-3		S-4		S-5		S-6	
Field QC:						Duplicate(CSL69)					
Matrix		Soil		Soil		Soil		Soil		Soil	
Units		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled		04/21/2000		04/21/2000		04/21/2000		04/20/2000		04/21/2000	
Time Sampled		08 45		08 30		09 00		10 05		09 25	
%Moisture :		24		18		18		31		12	
pH		5		6		6		5		5	
Dilution Factor		1.0		1.0		1.0		1.0		1.0	
Semivolatile Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Acenaphthene	330										
2,4-Dinitrophenol	830										
4-Nitrophenol	830										
Dibenzofuran	330										
2,4-Dinitrotoluene	330										
Diethylphthalate	330										
Fluorene	330										
4-Chlorophenyl-phenyl ether	330										
4-Nitroaniline	830										
4,6-Dinitro-2-methylphenol	830										
N-Nitrosodiphenylamine	330										
4-Bromophenyl-phenylether	330										
Hexachlorobenzene	330										
Atrazine	330										
Pentachlorophenol	830										
Phenanthrene	330										
Anthracene	330										
Carbazole	330		UJ		UJ		UJ		UJ		UJ
Di-n-butylphthalate	330			92	B						
Fluoranthene	330										
Pyrene	330										
Butylbenzylphthalate	330										
3,3'-Dichlorobenzidine	330										
Benzo(a)anthracene	330										
Chrysene	330										
bis(2-Ethylhexyl)phthalate	330					130	J				
Di-n-octylphthalate	330										
Benzo(b)fluoranthene	330										
Benzo(k)fluoranthene	330										
Benzo(a)pyrene	330										
Indeno(1,2,3-cd)pyrene	330										
Dibenzo(a,h)anthracene	330										
Benzo(g,h,i)perylene	330										

CRQL = Contract Required Quantitation Limit

SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (CRQL * Dilution Factor) / (100 - %Moisture) / 100

Revised 09/99

DATA SUMMARY FORM: BNA

Case #: 27981 SDG CSL55
Site : NEW JERSEY FIREWORKS
Lab. : ENVSYS

Sample Number		CSL66		CSL67		CSL68		CSL69			
Sampling Location		S-7		S-8		S-9		S-10			
Field QC:								Duplicate(CSL63)			
Matrix		Soil		Soil		Soil		Soil			
Units :		ug/Kg		ug/Kg		ug/Kg		ug/Kg			
Date Sampled		04/21/2000		04/21/2000		04/21/2000		04/21/2000			
Time Sampled		09:50		09:40		09:45		09:00			
%Moisture :		18		19		18		29			
pH		6		6		4		7			
Dilution Factor		1.0		1.0		1.0		1.0			
Semivolatile Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Benzaldehyde	**330**		**UJ**								
Phenol	330										
bis-(2-Chloroethyl) ether	**330**										
2-Chlorophenol	330										
2-Methylphenol	**330**										
2,2'-oxybis(1-Chloropropane)	330										
Acetophenone	**330**			**90**	**J**						
4-Methylphenol	330										
N-Nitroso-di-n-propylamine	**330**			**140**	**J**						
Hexachloroethane	330										
Nitrobenzene	**330**										
Isophorone	330										
2-Nitrophenol	**330**										
2,4-Dimethylphenol	330										
bis(2-Chloroethoxy)methane	**330**										
2,4-Dichlorophenol	330										
Naphthalene	**330**			**550**		**110**	**J**				
4-Chloroaniline	330										
Hexachlorobutadiene	**330**										
Caprolactam	330										
4-Chloro-3-methylphenol	**330**										
2-Methylnaphthalene	330			650	J	120	J				
Hexachlorocyclopentadiene	**330**										
2,4,6-Trichlorophenol	330										
2,4,5-Trichlorophenol	**830**										
1,1'-Biphenyl	330										
2-Chloronaphthalene	**330**										
2-Nitroaniline	830										
Dimethylphthalate	**330**										
2,6-Dinitrotoluene	330										
Acenaphthylene	**330**										
3-Nitroaniline	830		R		R		R		R		

CRQL = Contract Required Quantitation Limit

SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (CRQL * Dilution Factor) / (100 - %Moisture) / 100

Revised 09/99

DATA SUMMARY FORM: BNA

Case #: 27981 SDG CSL55
Site : NEW JERSEY FIREWORKS
Lab : ENVSYS

Sample Number		CSL66		CSL67		CSL68		CSL69			
Sampling Location		S-7		S-8		S-9		S-10			
Field QC:								Duplicate(CSL63)			
Matrix		Soil		Soil		Soil		Soil			
Units :		ug/Kg		ug/Kg		ug/Kg		ug/Kg			
Date Sampled		04/21/2000		04/21/2000		04/21/2000		04/21/2000			
Time Sampled		09:50		09:40		09 45		09 00			
%Moisture :		18		19		18		29			
pH :		6		6		4		7			
Dilution Factor		1.0		1.0		1.0		1.0			
Semivolatile Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Acenaphthene	**330**										
2,4-Dinitrophenol	830										
4-Nitrophenol	**830**										
Dibenzofuran	330			230	J						
2,4-Dinitrotoluene	**330**										
Diethylphthalate	330										
Fluorene	**330**										
4-Chlorophenyl-phenyl ether	330										
4-Nitroaniline	**830**										
4,6-Dinitro-2-methylphenol	830										
N-Nitrosodiphenylamine	**330**			**92**	**J**						
4-Bromophenyl-phenylether	330										
Hexachlorobenzene	**330**										
Atrazine	330										
Pentachlorophenol	**830**										
Phenanthrene	330			430		120	J				
Anthracene	**330**										
Carbazole	330		UJ		UJ		UJ		UJ		
Di-n-butylphthalate	**330**			**110**	**B**						
Fluoranthene	330					130	J				
Pyrene	**330**			**90**	**J**	**120**	**J**				
Butylbenzylphthalate	330										
3,3'-Dichlorobenzidine	**330**										
Benzo(a)anthracene	330										
Chrysene	**330**			**120**	**J**	**120**	**J**				
bis(2-Ethylhexyl)phthalate	330										
Di-n-octylphthalate	**330**										
Benzo(b)fluoranthene	330			96	J	120	J				
Benzo(k)fluoranthene	**330**					**100**	**J**				
Benzo(a)pyrene	330			160	J	90	J				
Indeno(1,2,3-cd)pyrene	**330**			**88**	**J**	**100**	**J**				
Dibenzo(a,h)anthracene	330										
Benzo(g,h,i)perylene	**330**			**94**	**J**	**94**	**J**				

CRQL = Contract Required Quantitation Limit SEE NARRATIVE FOR CODE DEFINITIONS
To calculate sample quantitation limits: (CRQL * Dilution Factor) / (100 - %Moisture) / 100 Revised 09/99

DATA SUMMARY FORM: PESTICIDES AND PCBS

Case # 27981 SDG CSL45 Number of Soil Samples 0
Site NEW JERSEY FIREWORKS Number of Water Samples 11
Lab ENVSYS

Sample Number		CSL45		CSL46		CSL47		CSL48		CSL49	
Sampling Location		GW-1		GW-2		GW-3		GW-4		GW-5	
Matrix		Water		Water		Water		Water		Water	
Units		ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled		04/20/2000		04/20/2000		04/20/2000		04/20/2000		04/20/2000	
Time Sampled		12 30		10 30		11 15		10 45		10 15	
%Moisture		N/A		N/A		N/A		N/A		N/A	
pH		7 0		7 0		7 0		7 0		7 0	
Dilution Factor		1 0		1 0		1 0		1 0		1 0	
Pesticide/PCB Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
alpha-BHC	0.050		UL								UJ
beta-BHC	0 050		UL								UJ
delta-BHC	0.050		UL								UJ
*gamma-BHC (Lindane)	0.050		UL								UJ
*Heptachlor	0.050		UL								UJ
Aldrin	0 050		UL								UJ
Heptachlor epoxide	0.050		UL								UJ
Endosulfan I	0 050		UL								UJ
Dieldrin	0.10		UL								UJ
4 4'-DDE	0 10		UL								UJ
*Endrin	0.10		UL								UJ
Endosulfan II	0 10		UL								UJ
4,4'-DDD	0.10		UL								UJ
Endosulfan sulfate	0 10		UL								UJ
4,4'-DDT	0.10		UL								UJ
*Methoxychlor	0 50		UL								UJ
Endrin ketone	0.10		UL								UJ
Endrin aldehyde	0 10		UL								UJ
alpha-Chlordane	0.050		UL								UJ
gamma-Chlordane	0 050		UL								UJ
*Toxaphene	5 0		UL								UJ
*Aroclor-1016	1 0		UL								UJ
*Aroclor-1221	2.0		UL								UJ
*Aroclor-1232	1 0		UL								UJ
*Aroclor-1242	1.0		UL								UJ
*Aroclor-1248	1 0		UL								UJ
*Aroclor-1254	1.0		UL								UJ
*Aroclor-1260	1 0		UL								UJ

CRQL = Contract Required Quantitation Limit *Action Level Exists SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits multiply the CRQL by the Dilution Factor *Revised 09/99*

DATA SUMMARY FORM: PESTICIDES AND PCBS

Case # 27981 SDG CSL45
Site NEW JERSEY FIREWORKS
Lab ENVSYS

Sample Number		CSL50		CSL51		CSL52		CSL53		CSL54	
Sampling Location		SW-1		SW-2		SW-3		SW-4		SW-5	
Field QC								Duplicate(CSL54)		Duplicate(CSL53)	
Matrix		Water		Water		Water		Water		Water	
Units		ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled		04/20/2000		04/20/2000		04/20/2000		04/20/2000		04/20/2000	
Time Sampled		12 00		10 00		09 45		11 15		13 00	
%Moisture		N/A		N/A		N/A		N/A		N/A	
pH		7 0		7 0		7 0		7 0		7 0	
Dilution Factor		1 0		1 0		1 0		1 0		1 0	
Pesticide/PCB Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
alpha-BHC	0.050								UJ		
beta-BHC	0 050								UJ		
delta-BHC	0.050								UJ		
*gamma-BHC (Lindane)	0 050								UJ		
*Heptachlor	0.050								UJ		
Aldrin	0 050								UJ		
Heptachlor epoxide	0 050								UJ		
Endosulfan I	0 050								UJ		
Dieldrin	0.10								UJ		
4,4'-DDE	0.10								UJ		
*Endrin	0.10								UJ		
Endosulfan II	0 10								UJ		
4,4'-DDD	0.10								UJ		
Endosulfan sulfate	0 10								UJ		
4,4'-DDT	0 10								UJ		
*Methoxychlor	0 50							0 86	J		
Endrin ketone	0.10								UJ		
Endrin aldehyde	0 10								UJ		
alpha-Chlordane	0.050								UJ		
gamma-Chlordane	0 050								UJ		
*Toxaphene	5 0								UJ		
*Aroclor-1016	1 0								UJ		
*Aroclor-1221	2.0								UJ		
*Aroclor-1232	1 0								UJ		
*Aroclor-1242	1.0								UJ		
*Aroclor-1248	1 0								UJ		
*Aroclor-1254	1.0								UJ		
*Aroclor-1260	1 0								UJ		

CRQL = Contract Required Quantitation Limit *Action Level Exists SEE NARRATIVE FOR CODE DEFINITIONS
To calculate sample quantitation limits multiply the CRQL by the Dilution Factor Revised 09/99

DATA SUMMARY FORM: PESTICIDES AND PCBS

Case # 27981 SDG CSL45
Site NEW JERSEY FIREWORKS
Lab ENVSYS

Sample Number		CSL70									
Sampling Location		FB-1									
Field QC:		Field Blank									
Matrix		Water									
Units		ug/L									
Date Sampled		04/20/2000									
Time Sampled		10:00									
%Moisture :		N/A									
pH		7 0									
Dilution Factor		1 0									
Pesticide/PCB Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
alpha-BHC	0.050										
beta-BHC	0 050										
delta-BHC	0.050										
*gamma-BHC (Lindane)	0.050										
*Heptachlor	0.050										
Aldrin	0.050										
Heptachlor epoxide	0.050										
Endosulfan I	0.050										
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	0.10										
*Methoxychlor	0.50										
Endrin ketone	0.10										
Endrin aldehyde	0 10										
alpha-Chlordane	0.050										
gamma-Chlordane	0.050										
*Toxaphene	5.0										
*Aroclor-1016	1.0										
*Aroclor-1221	2.0										
*Aroclor-1232	1 0										
*Aroclor-1242	1.0										
*Aroclor-1248	1 0										
*Aroclor-1254	1.0										
*Aroclor-1260	1 0										

CRQL = Contract Required Quantitation Limit *Action Level Exists SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits multiply the CRQL by the Dilution Factor Revised 09/99

DATA SUMMARY FORM: PESTICIDES AND PCBS

Case #: 27981 SDG CSL55 Number of Soil Samples 14
Site NEW JERSEY FIREWORKS Number of Water Samples 0
Lab. ENVSYS

Sample Number		CSL55		CSL56		CSL57		CSL58		CSL60	
Sampling Location		SED-1		SED-2		SED-3		SED-4		S-1	
Matrix		Soil		Soil		Soil		Soil		Soil	
Units		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled		04/20/2000		04/20/2000		04/20/2000		04/20/2000		04/20/2000	
Time Sampled		12:00		10:00		07 45		11 05		12 45	
%Moisture		15		24		44		26		24	
pH		6 0		6.0		6.0		6 0		6 0	
Dilution Factor		1.0		1.0		1.0		1 0		1 0	
Pesticide/PCB Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
alpha-BHC	**1.7**										
beta-BHC	1.7										
delta-BHC	**1.7**										
gamma-BHC (Lindane)	1.7										
Heptachlor	**1.7**										
Aldrin	1.7										
Heptachlor epoxide	**1.7**										
Endosulfan I	1 7										
Dieldrin	**3.3**										
4,4'-DDE	3 3									3 8	J
Endrin	**3.3**										
Endosulfan II	3 3										
4,4'-DDD	**3.3**										
Endosulfan sulfate	3 3										
4,4'-DDT	**3.3**									**4.1**	J
Methoxychlor	17										
Endrin ketone	**3.3**										
Endrin aldehyde	3.3										
alpha-Chlordane	**1.7**										
gamma-Chlordane	1.7										
Toxaphene	**170**										
Aroclor-1016	33										
Aroclor-1221	**67**										
Aroclor-1232	33										
Aroclor-1242	**33**										
Aroclor-1248	33										
Aroclor-1254	**33**										
Aroclor-1260	33										

CRQL = Contract Required Quantitation Limit SEE NARRATIVE FOR CODE DEFINITIONS
To calculate sample quantitation limits: (CRQL * Dilution Factor) / (100 - %Moisture) / 100 Revised 09/99

DATA SUMMARY FORM: PESTICIDES AND PCBS

Case # 27981 SDG : CSL55
Site : NEW JERSEY FIREWORKS
Lab. ENVSYS

Sample Number		CSL61		CSL62		CSL63		CSL64		CSL65	
Sampling Location		S-2		S-3		S-4		S-5		S-6	
Field QC.						Duplicate(CSL69)					
Matrix :		Soil		Soil		Soil		Soil		Soil	
Units :		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled		04/21/2000		04/21/2000		04/21/2000		04/20/2000		04/21/2000	
Time Sampled		08.45		08:30		09:00		10 05		09 25	
%Moisture :		24		18		18		31		12	
pH		6 0		6.0		6 0		6 0		6 0	
Dilution Factor		1 0		1.0		1.0		1 0		1 0	
Pesticide/PCB Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
alpha-BHC	**1.7**										
beta-BHC	1.7										
delta-BHC	**1.7**										
gamma-BHC (Lindane)	1.7										
Heptachlor	**1.7**										
Aldrin	1 7										
Heptachlor epoxide	**1.7**										
Endosulfan I	1.7										
Dieldrin	**3.3**										
4,4'-DDE	3.3										
Endrin	**3.3**										
Endosulfan II	3 3										
4,4'-DDD	**3.3**										
Endosulfan sulfate	3 3										
4,4'-DDT	**3.3**										
Methoxychlor	17										
Endrin ketone	**3.3**										
Endrin aldehyde	3.3										
alpha-Chlordane	**1.7**										
gamma-Chlordane	1 7										
Toxaphene	**170**										
Aroclor-1016	33										
Aroclor-1221	**67**										
Aroclor-1232	33										
Aroclor-1242	**33**										
Aroclor-1248	33										
Aroclor-1254	**33**										
Aroclor-1260	33										

CRQL = Contract Required Quantitation Limit

SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (CRQL * Dilution Factor) / (100 - %Moisture) / 100

Revised 09/99

DATA SUMMARY FORM: PESTICIDES AND PCBS

Case # 27981 SDG : CSL55
Site : NEW JERSEY FIREWORKS
Lab. ENVSYS

Sample Number :		CSL66		CSL67		CSL68		CSL69			
Sampling Location		S-7		S-8		S-9		S-10			
Field QC:								Duplicate(CSL63)			
Matrix :		Soil		Soil		Soil		Soil			
Units		ug/Kg		ug/Kg		ug/Kg		ug/Kg			
Date Sampled		04/21/2000		04/21/2000		04/21/2000		04/21/2000			
Time Sampled		09:50		09:40		09:45		09 00			
%Moisture :		18		19		18		29			
pH :		6.0		6.0		6 0		6.3			
Dilution Factor		1.0		1.0		1 0		1 0			
Pesticide/PCB Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
alpha-BHC	**1.7**		**R**				**R**				
beta-BHC	1 7		R				R				
delta-BHC	**1.7**		**R**				**R**				
gamma-BHC (Lindane)	1.7		R				R				
Heptachlor	**1.7**		**R**				**R**				
Aldrin	1.7		R				R				
Heptachlor epoxide	**1.7**		**R**				**R**				
Endosulfan I	1.7		R				R				
Dieldrin	**3.3**		**R**				**R**				
4.4'-DDE	3 3		R				R				
Endrin	**3.3**		**R**				**R**				
Endosulfan II	3.3		R				R				
4,4'-DDD	**3.3**		**R**				**R**				
Endosulfan sulfate	3.3		R				R				
4,4'-DDT	**3.3**		**R**	7.6	J		**R**				
Methoxychlor	17		R				R				
Endrin ketone	**3.3**		**R**				**R**				
Endrin aldehyde	3 3		R				R				
alpha-Chlordane	**1.7**		**R**				**R**				
gamma-Chlordane	1 7		R				R				
Toxaphene	**170**		**R**				**R**				
Aroclor-1016	33		R				R				
Aroclor-1221	**67**		**R**				**R**				
Aroclor-1232	33		R				R				
Aroclor-1242	**33**		**R**				**R**				
Aroclor-1248	33		R				R				
Aroclor-1254	**33**		**R**				**R**				
Aroclor-1260	33		R				R				

CRQL = Contract Required Quantitation Limit SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (CRQL * Dilution Factor) / (100 - %Moisture) / 100 Revised 09/99

Appendix C

Form I s

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL45

Lab Name: ENVIROSYSTEMS Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL45

Matrix: (soil/water) WATER Lab Sample ID: 00041153

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 041153

Level: (low/med) LOW Date Received: 04/22/00

% Moisture: not dec. Date Analyzed: 04/25/00

GC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluo	10	U
	1,2,2-trifluoroethane	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
79-20-9	Methyl Acetate	10	U
75-09-2	Methylene Chloride	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	tert-Butyl Methyl Ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	10	U
56-23-5	Carbon Tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U

0 0019

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL45

Lab Name: ENVIROSYSTEMS Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL45

Matrix: (soil/water) WATER Lab Sample ID: 00041153

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 041153

Level: (low/med) LOW Date Received: 04/22/00

% Moisture: not dec. Date Analyzed: 04/25/00

QC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-01-6	Trichloroethene	10	U
108-87-2	Methylcyclohexane	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3 Dichlorobenzene	10	U
106-46-7	1,4 Dichlorobenzene	10	U
95-50-1	1,2 Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U

0.0020

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL46

Lab Name: ENVIROSYSTEMS Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL45

Matrix: (soil/water) WATER Lab Sample ID: 00041154

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 041154

Level: (low/med) LOW Date Received: 04/22/00

% Moisture: not dec. Date Analyzed: 04/25/00

GC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluo	10	U
	1,2,2-trifluoroethane	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
79-20-9	Methyl Acetate	10	U
75-09-2	Methylene Chloride	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	tert-Butyl Methyl Ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	10	U
56-23-5	Carbon Tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL46

Lab Name: ENVIROSYSTEMS Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL45

Matrix: (soil/water) WATER Lab Sample ID: 00041154

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 041154

Level: (low/med) LOW Date Received: 04/22/00

% Moisture: not dec. Date Analyzed: 04/25/00

QC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-01-6	Trichloroethene	10	U
108-87-2	Methylcyclohexane	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3 Dichlorobenzene	10	U
106-46-7	1,4 Dichlorobenzene	10	U
95-50-1	1,2 Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U

0.0031

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL47

Lab Name: ENVIROSYSTEMS Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL45

Matrix: (soil/water) WATER Lab Sample ID: 00041155

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 041155

Level: (low/med) LOW Date Received: 04/22/00

% Moisture: not dec. Date Analyzed: 04/25/00

GC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluo	10	U
	1,2,2-trifluoroethane	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
79-20-9	Methyl Acetate	10	U
75-09-2	Methylene Chloride	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	tert-Butyl Methyl Ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	10	U
56-23-5	Carbon Tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U

0 0039

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL47

Lab Name: ENVIROSYSTEMS Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL45

Matrix: (soil/water) WATER Lab Sample ID: 00041155

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 041155

Level: (low/med) LOW Date Received: 04/22/00

% Moisture: not dec. Date Analyzed: 04/25/00

GC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-01-6	Trichloroethene	10	U
108-87-2	Methylcyclohexane	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3 Dichlorobenzene	10	U
106-46-7	1,4 Dichlorobenzene	10	U
95-50-1	1,2 Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U

0.0040

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL48

Lab Name: ENVIROSYSTEMS Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL45

Matrix: (soil/water) WATER Lab Sample ID: 00041156

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 041156

Level: (low/med) LOW Date Received: 04/22/00

% Moisture: not dec. Date Analyzed: 04/25/00

GC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluo	10	U
	1,2,2-trifluoroethane	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
79-20-9	Methyl Acetate	10	U
75-09-2	Methylene Chloride	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	tert-Butyl Methyl Ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	10	U
56-23-5	Carbon Tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U

0.0048

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL48

Lab Name: ENVIROSYSTEMS Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL45

Matrix: (soil/water) WATER Lab Sample ID: 00041156

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 041156

Level: (low/med) LOW Date Received: 04/22/00

% Moisture: not dec. Date Analyzed: 04/25/00

GC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-01-6	Trichloroethene	10	U
108-87-2	Methylcyclohexane	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3 Dichlorobenzene	10	U
106-46-7	1,4 Dichlorobenzene	10	U
95-50-1	1,2 Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U

0 0049

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL49

Lab Name: ENVIROSYSTEMS Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL45

Matrix: (soil/water) WATER Lab Sample ID: 00041157

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 041157

Level: (low/med) LOW Date Received: 04/22/00

% Moisture: not dec. Date Analyzed: 04/25/00

GC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluo	10	U
	1,2,2-trifluoroethane	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
79-20-9	Methyl Acetate	10	U
75-09-2	Methylene Chloride	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	tert-Butyl Methyl Ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	10	U
56-23-5	Carbon Tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U

0.0057

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL49

Lab Name: ENVIROSYSTEMS Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL45

Matrix: (soil/water) WATER Lab Sample ID: 00041157

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 041157

Level: (low/med) LOW Date Received: 04/22/00

% Moisture: not dec. Date Analyzed: 04/25/00

GC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-01-6	Trichloroethene	10	U
108-87-2	Methylcyclohexane	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3 Dichlorobenzene	10	U
106-46-7	1,4 Dichlorobenzene	10	U
95-50-1	1,2 Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U

0 0058

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL50

Lab Name: ENVIROSYSTEMS Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL45

Matrix: (soil/water) WATER Lab Sample ID: 00041158

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 041158

Level: (low/med) LOW Date Received: 04/22/00

% Moisture: not dec. Date Analyzed: 04/25/00

GC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluo	10	U
	1,2,2-trifluoroethane	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
79-20-9	Methyl Acetate	10	U
75-09-2	Methylene Chloride	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	tert-Butyl Methyl Ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	10	U
56-23-5	Carbon Tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U

0..0068

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL50

Lab Name: ENVIROSYSTEMS Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL45

Matrix: (soil/water) WATER Lab Sample ID: 00041158

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 041158

Level: (low/med) LOW Date Received: 04/22/00

% Moisture: not dec. Date Analyzed: 04/25/00

GC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-01-6	Trichloroethene	10	U
108-87-2	Methylcyclohexane	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3 Dichlorobenzene	10	U
106-46-7	1,4 Dichlorobenzene	10	U
95-50-1	1,2 Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U

0.0069

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL51

Lab Name: ENVIROSYSTEMS Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL45

Matrix: (soil/water) WATER Lab Sample ID: 00041159

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 041159

Level: (low/med) LOW Date Received: 04/22/00

% Moisture: not dec. Date Analyzed: 04/25/00

GC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluo	10	U
	1,2,2-trifluoroethane	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
79-20-9	Methyl Acetate	10	U
75-09-2	Methylene Chloride	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	tert-Butyl Methyl Ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	10	U
56-23-5	Carbon Tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U

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1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL51

Lab Name: ENVIROSYSTEMS Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL45

Matrix: (soil/water) WATER Lab Sample ID: 00041159

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 041159

Level: (low/med) LOW Date Received: 04/22/00

% Moisture: not dec. Date Analyzed: 04/25/00

GC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-01-6	Trichloroethene	10	U
108-87-2	Methylcyclohexane	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3 Dichlorobenzene	10	U
106-46-7	1,4 Dichlorobenzene	10	U
95-50-1	1,2 Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U

0 0078

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL52

Lab Name: ENVIROSYSTEMS Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL45

Matrix: (soil/water) WATER Lab Sample ID: 00041160

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 041160

Level: (low/med) LOW Date Received: 04/22/00

% Moisture: not dec. Date Analyzed: 04/25/00

GC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluo	10	U
	1,2,2-trifluoroethane	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
79-20-9	Methyl Acetate	10	U
75-09-2	Methylene Chloride	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	tert-Butyl Methyl Ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	10	U
56-23-5	Carbon Tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U

0 0086

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL52

Lab Name: ENVIROSYSTEMS Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL45

Matrix: (soil/water) WATER Lab Sample ID: 00041160

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 041160

Level: (low/med) LOW Date Received: 04/22/00

% Moisture: not dec. Date Analyzed: 04/25/00

GC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-01-6	Trichloroethene	10	U
108-87-2	Methylcyclohexane	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3 Dichlorobenzene	10	U
106-46-7	1,4 Dichlorobenzene	10	U
95-50-1	1,2 Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U

0..0087

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL53

Lab Name: ENVIROSYSTEMS Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL45

Matrix: (soil/water) WATER Lab Sample ID: 00041161

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 041161

Level: (low/med) LOW Date Received: 04/22/00

% Moisture: not dec. Date Analyzed: 04/26/00

GC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluo	10	U
	1,2,2-trifluoroethane	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
79-20-9	Methyl Acetate	10	U
75-09-2	Methylene Chloride	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	tert-Butyl Methyl Ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	10	U
56-23-5	Carbon Tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U

0..095

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL53

Lab Name: ENVIROSYSTEMS Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL45

Matrix: (soil/water) WATER Lab Sample ID: 00041161

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 041161

Level: (low/med) LOW Date Received: 04/22/00

% Moisture: not dec. Date Analyzed: 04/26/00

GC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-01-6	Trichloroethene	10	U
108-87-2	Methylcyclohexane	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3 Dichlorobenzene	10	U
106-46-7	1,4 Dichlorobenzene	10	U
95-50-1	1,2 Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL54

Lab Name: ENVIROSYSTEMS Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL45

Matrix: (soil/water) WATER Lab Sample ID: 00041162

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 041162

Level: (low/med) LOW Date Received: 04/22/00

% Moisture: not dec. Date Analyzed: 04/26/00

GC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluo	10	U
	1,2,2-trifluoroethane	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
79-20-9	Methyl Acetate	10	U
75-09-2	Methylene Chloride	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	tert-Butyl Methyl Ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	10	U
56-23-5	Carbon Tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U

0 0104

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL54

Lab Name: ENVIROSYSTEMS Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL45

Matrix: (soil/water) WATER Lab Sample ID: 00041162

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 041162

Level: (low/med) LOW Date Received: 04/22/00

% Moisture: not dec. Date Analyzed: 04/26/00

GC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-01-6	Trichloroethene	10	U
108-87-2	Methylcyclohexane	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3 Dichlorobenzene	10	U
106-46-7	1,4 Dichlorobenzene	10	U
95-50-1	1,2 Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U

0 0105

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL70

Lab Name: ENVIROSYSTEMS Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL45

Matrix: (soil/water) WATER Lab Sample ID: 00041163

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 041163

Level: (low/med) LOW Date Received: 04/22/00

% Moisture: not dec. Date Analyzed: 04/26/00

GC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluo	10	U
	1,2,2-trifluoroethane	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
79-20-9	Methyl Acetate	10	U
75-09-2	Methylene Chloride	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	tert-Butyl Methyl Ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	10	U
56-23-5	Carbon Tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U

0.0113

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL70

Lab Name: ENVIROSYSTEMS Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL45

Matrix: (soil/water) WATER Lab Sample ID: 00041163

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 041163

Level: (low/med) LOW Date Received: 04/22/00

% Moisture: not dec. Date Analyzed: 04/26/00

GC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-01-6	Trichloroethene	10	U
108-87-2	Methylcyclohexane	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3 Dichlorobenzene	10	U
106-46-7	1,4 Dichlorobenzene	10	U
95-50-1	1,2 Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U

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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL71

Lab Name: ENVIROSYSTEMS Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL45

Matrix: (soil/water) WATER Lab Sample ID: 00041164

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 041164

Level: (low/med) LOW Date Received: 04/22/00

% Moisture: not dec. Date Analyzed: 04/26/00

GC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluo	10	U
	1,2,2-trifluoroethane	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
79-20-9	Methyl Acetate	10	U
75-09-2	Methylene Chloride	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	tert-Butyl Methyl Ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	10	U
56-23-5	Carbon Tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U

0.0122

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL71

Lab Name: ENVIROSYSTEMS Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL45

Matrix: (soil/water) WATER Lab Sample ID: 00041164

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 041164

Level: (low/med) LOW Date Received: 04/22/00

% Moisture: not dec. Date Analyzed: 04/26/00

GC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-01-6	Trichloroethene	10	U
108-87-2	Methylcyclohexane	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3 Dichlorobenzene	10	U
106-46-7	1,4 Dichlorobenzene	10	U
95-50-1	1,2 Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U

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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL55

Lab Name: ENVIROSYSTEMS Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Matrix: (soil/water) SOIL Lab Sample ID: 00041165

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 041165

Level: (low/med) LOW Date Received: 04/22/00

% Moisture: not dec. 15 Date Analyzed: 04/25/00

GC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	12	U
74-87-3	Chloromethane	12	U
75-01-4	Vinyl Chloride	12	U
74-83-9	Bromomethane	12	U
75-00-3	Chloroethane	12	U
75-69-4	Trichlorofluoromethane	12	U
75-35-4	1,1-Dichloroethene	12	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluo	12	U
	1,2,2-trifluoroethane	12	U
67-64-1	Acetone	12	U
75-15-0	Carbon Disulfide	12	U
79-20-9	Methyl Acetate	12	U
75-09-2	Methylene Chloride	12	U
156-60-5	trans-1,2-Dichloroethene	12	U
1634-04-4	tert-Butyl Methyl Ether	12	U
75-34-3	1,1-Dichloroethane	12	U
156-59-2	cis-1,2-Dichloroethene	12	U
78-93-3	2-Butanone	12	U
67-66-3	Chloroform	12	U
71-55-6	1,1,1-Trichloroethane	12	U
110-82-7	Cyclohexane	12	U
56-23-5	Carbon Tetrachloride	12	U
71-43-2	Benzene	12	U
107-06-2	1,2-Dichloroethane	12	U

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1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL55

Lab Name: ENVIROSYSTEMS Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Matrix: (soil/water) SOIL Lab Sample ID: 00041165

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 041165

Level: (low/med) LOW Date Received: 04/22/00

% Moisture: not dec. 15 Date Analyzed: 04/25/00

GC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	12	U
108-87-2	Methylcyclohexane	12	U
78-87-5	1,2-Dichloropropane	12	U
75-27-4	Bromodichloromethane	12	U
10061-01-5	cis-1,3-Dichloropropene	12	U
108-10-1	4-Methyl-2-Pentanone	12	U
108-88-3	Toluene	12	U
10061-02-6	trans-1,3-Dichloropropene	12	U
79-00-5	1,1,2-Trichloroethane	12	U
127-18-4	Tetrachloroethene	12	U
591-78-6	2-Hexanone	12	U
124-48-1	Dibromochloromethane	12	U
106-93-4	1,2-Dibromoethane	12	U
108-90-7	Chlorobenzene	12	U
100-41-4	Ethylbenzene	12	U
1330-20-7	Xylene (total)	12	U
100-42-5	Styrene	12	U
75-25-2	Bromoform	12	U
98-82-8	Isopropylbenzene	12	U
79-34-5	1,1,2,2-Tetrachloroethane	12	U
541-73-1	1,3 Dichlorobenzene	12	U
106-46-7	1,4 Dichlorobenzene	12	U
95-50-1	1,2 Dichlorobenzene	12	U
96-12-8	1,2-Dibromo-3-chloropropane	12	U
120-82-1	1,2,4-Trichlorobenzene	12	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL56

Lab Name: ENVIROSYSTEMS Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Matrix: (soil/water) SOIL Lab Sample ID: 00041166

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 041166

Level: (low/med) LOW Date Received: 04/22/00

% Moisture: not dec. 24 Date Analyzed: 04/25/00

GC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	13	U
74-87-3	Chloromethane	13	U
75-01-4	Vinyl Chloride	13	U
74-83-9	Bromomethane	13	U
75-00-3	Chloroethane	13	U
75-69-4	Trichlorofluoromethane	13	U
75-35-4	1,1-Dichloroethene	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluo	13	U
	1,2,2-trifluoroethane	13	U
67-64-1	Acetone	13	U
75-15-0	Carbon Disulfide	13	U
79-20-9	Methyl Acetate	13	U
75-09-2	Methylene Chloride	13	U
156-60-5	trans-1,2-Dichloroethene	13	U
1634-04-4	tert-Butyl Methyl Ether	13	U
75-34-3	1,1-Dichloroethane	13	U
156-59-2	cis-1,2-Dichloroethene	13	U
78-93-3	2-Butanone	13	U
67-66-3	Chloroform	13	U
71-55-6	1,1,1-Trichloroethane	13	U
110-82-7	Cyclohexane	13	U
56-23-5	Carbon Tetrachloride	13	U
71-43-2	Benzene	13	U
107-06-2	1,2-Dichloroethane	13	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL56

Lab Name: ENVIROSYSTEMS Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Matrix: (soil/water) SOIL Lab Sample ID: 00041166

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 041166

Level: (low/med) LOW Date Received: 04/22/00

% Moisture: not dec. 24 Date Analyzed: 04/25/00

GC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	13	U
108-87-2	Methylcyclohexane	13	U
78-87-5	1,2-Dichloropropane	13	U
75-27-4	Bromodichloromethane	13	U
10061-01-5	cis-1,3-Dichloropropene	13	U
108-10-1	4-Methyl-2-Pentanone	13	U
108-88-3	Toluene	13	U
10061-02-6	trans-1,3-Dichloropropene	13	U
79-00-5	1,1,2-Trichloroethane	13	U
127-18-4	Tetrachloroethene	13	U
591-78-6	2-Hexanone	13	U
124-48-1	Dibromochloromethane	13	U
106-93-4	1,2-Dibromoethane	13	U
108-90-7	Chlorobenzene	13	U
100-41-4	Ethylbenzene	13	U
1330-20-7	Xylene (total)	13	U
100-42-5	Styrene	13	U
75-25-2	Bromoform	13	U
98-82-8	Isopropylbenzene	13	U
79-34-5	1,1,2,2-Tetrachloroethane	13	U
541-73-1	1,3 Dichlorobenzene	13	U
106-46-7	1,4 Dichlorobenzene	13	U
95-50-1	1,2 Dichlorobenzene	13	U
96-12-8	1,2-Dibromo-3-chloropropane	13	U
120-82-1	1,2,4-Trichlorobenzene	13	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL57

Lab Name: ENVIROSYSTEMS Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Matrix: (soil/water) SOIL Lab Sample ID: 00041167

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 041167

Level: (low/med) LOW Date Received: 04/22/00

% Moisture: not dec. 44 Date Analyzed: 04/25/00

QC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	18	U
74-87-3	Chloromethane	18	U
75-01-4	Vinyl Chloride	18	U
74-83-9	Bromomethane	18	U
75-00-3	Chloroethane	18	U
75-69-4	Trichlorofluoromethane	18	U
75-35-4	1,1-Dichloroethene	18	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluo	18	U
	1,2,2-trifluoroethane	18	U
67-64-1	Acetone	18	U
75-15-0	Carbon Disulfide	18	U
79-20-9	Methyl Acetate	18	U
75-09-2	Methylene Chloride	18	U
156-60-5	trans-1,2-Dichloroethene	18	U
1634-04-4	tert-Butyl Methyl Ether	18	U
75-34-3	1,1-Dichloroethane	18	U
156-59-2	cis-1,2-Dichloroethene	18	U
78-93-3	2-Butanone	18	U
67-66-3	Chloroform	18	U
71-55-6	1,1,1-Trichloroethane	18	U
110-82-7	Cyclohexane	18	U
56-23-5	Carbon Tetrachloride	18	U
71-43-2	Benzene	18	U
107-06-2	1,2-Dichloroethane	18	U

0 0038

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL57

Lab Name: ENVIROSYSTEMS Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Matrix: (soil/water) SOIL Lab Sample ID: 00041167

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 041167

Level: (low/med) LOW Date Received: 04/22/00

% Moisture: not dec. 44 Date Analyzed: 04/25/00

GC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	18	U
108-87-2	Methylcyclohexane	18	U
78-87-5	1,2-Dichloropropane	18	U
75-27-4	Bromodichloromethane	18	U
10061-01-5	cis-1,3-Dichloropropene	18	U
108-10-1	4-Methyl-2-Pentanone	18	U
108-88-3	Toluene	18	U
10061-02-6	trans-1,3-Dichloropropene	18	U
79-00-5	1,1,2-Trichloroethane	18	U
127-18-4	Tetrachloroethene	18	U
591-78-6	2-Hexanone	18	U
124-48-1	Dibromochloromethane	18	U
106-93-4	1,2-Dibromoethane	18	U
108-90-7	Chlorobenzene	18	U
100-41-4	Ethylbenzene	18	U
1330-20-7	Xylene (total)	18	U
100-42-5	Styrene	18	U
75-25-2	Bromoform	18	U
98-82-8	Isopropylbenzene	18	U
79-34-5	1,1,2,2-Tetrachloroethane	18	U
541-73-1	1,3 Dichlorobenzene	18	U
106-46-7	1,4 Dichlorobenzene	18	U
95-50-1	1,2 Dichlorobenzene	18	U
96-12-8	1,2-Dibromo-3-chloropropane	18	U
120-82-1	1,2,4-Trichlorobenzene	18	U

040039

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL58

Lab Name: ENVIROSYSTEMS Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Matrix: (soil/water) SOIL Lab Sample ID: 00041168

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 041168

Level: (low/med) LOW Date Received: 04/22/00

% Moisture: not dec. 26 Date Analyzed: 04/25/00

GC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	14	U
74-87-3	Chloromethane	14	U
75-01-4	Vinyl Chloride	14	U
74-83-9	Bromomethane	14	U
75-00-3	Chloroethane	14	U
75-69-4	Trichlorofluoromethane	14	U
75-35-4	1,1-Dichloroethene	14	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluo	14	U
	1,2,2-trifluoroethane	14	U
67-64-1	Acetone	14	U
75-15-0	Carbon Disulfide	14	U
79-20-9	Methyl Acetate	14	U
75-09-2	Methylene Chloride	14	U
156-60-5	trans-1,2-Dichloroethene	14	U
1634-04-4	tert-Butyl Methyl Ether	14	U
75-34-3	1,1-Dichloroethane	14	U
156-59-2	cis-1,2-Dichloroethene	14	U
78-93-3	2-Butanone	14	U
67-66-3	Chloroform	14	U
71-55-6	1,1,1-Trichloroethane	14	U
110-82-7	Cyclohexane	14	U
56-23-5	Carbon Tetrachloride	14	U
71-43-2	Benzene	14	U
107-06-2	1,2-Dichloroethane	14	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL58

Lab Name: ENVIROSYSTEMS Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Matrix: (soil/water) SOIL Lab Sample ID: 00041168

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 041168

Level: (low/med) LOW Date Received: 04/22/00

% Moisture: not dec. 26 Date Analyzed: 04/25/00

GC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	14	U
108-87-2	Methylcyclohexane	14	U
78-87-5	1,2-Dichloropropane	14	U
75-27-4	Bromodichloromethane	14	U
10061-01-5	cis-1,3-Dichloropropene	14	U
108-10-1	4-Methyl-2-Pentanone	14	U
108-88-3	Toluene	14	U
10061-02-6	trans-1,3-Dichloropropene	14	U
79-00-5	1,1,2-Trichloroethane	14	U
127-18-4	Tetrachloroethene	14	U
591-78-6	2-Hexanone	14	U
124-48-1	Dibromochloromethane	14	U
106-93-4	1,2-Dibromoethane	14	U
108-90-7	Chlorobenzene	14	U
100-41-4	Ethylbenzene	14	U
1330-20-7	Xylene (total)	14	U
100-42-5	Styrene	14	U
75-25-2	Bromoform	14	U
98-82-8	Isopropylbenzene	14	U
79-34-5	1,1,2,2-Tetrachloroethane	14	U
541-73-1	1,3 Dichlorobenzene	14	U
106-46-7	1,4 Dichlorobenzene	14	U
95-50-1	1,2 Dichlorobenzene	14	U
96-12-8	1,2-Dibromo-3-chloropropane	14	U
120-82-1	1,2,4-Trichlorobenzene	14	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL60RE

Lab Name: ENVIROSYSTEMS Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Matrix: (soil/water) SOIL Lab Sample ID: 00041169

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 041169RE

Level: (low/med) LOW Date Received: 04/22/00

% Moisture: not dec. 24 Date Analyzed: 04/26/00

GC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	13	U
74-87-3	Chloromethane	13	U
75-01-4	Vinyl Chloride	13	U
74-83-9	Bromomethane	13	U
75-00-3	Chloroethane	13	U
75-69-4	Trichlorofluoromethane	13	U
75-35-4	1,1-Dichloroethene	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluo	13	U
	1,2,2-trifluoroethane	13	U
67-64-1	Acetone	13	U
75-15-0	Carbon Disulfide	13	U
79-20-9	Methyl Acetate	13	U
75-09-2	Methylene Chloride	13	U
156-60-5	trans-1,2-Dichloroethene	13	U
1634-04-4	tert-Butyl Methyl Ether	13	U
75-34-3	1,1-Dichloroethane	13	U
156-59-2	cis-1,2-Dichloroethene	13	U
78-93-3	2-Butanone	13	U
67-66-3	Chloroform	13	U
71-55-6	1,1,1-Trichloroethane	13	U
110-82-7	Cyclohexane	13	U
56-23-5	Carbon Tetrachloride	13	U
71-43-2	Benzene	13	U
107-06-2	1,2-Dichloroethane	13	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL60RE

Lab Name: ENVIROSYSTEMS Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Matrix: (soil/water) SOIL Lab Sample ID: 00041169

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 041169RE

Level: (low/med) LOW Date Received: 04/22/00

% Moisture: not dec. 24 Date Analyzed: 04/26/00

GC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	13	U
108-87-2	Methylcyclohexane	13	U
78-87-5	1,2-Dichloropropane	13	U
75-27-4	Bromodichloromethane	13	U
10061-01-5	cis-1,3-Dichloropropene	13	U
108-10-1	4-Methyl-2-Pentanone	13	U
108-88-3	Toluene	4	J
10061-02-6	trans-1,3-Dichloropropene	13	U
79-00-5	1,1,2-Trichloroethane	13	U
127-18-4	Tetrachloroethene	13	U
591-78-6	2-Hexanone	13	U
124-48-1	Dibromochloromethane	13	U
106-93-4	1,2-Dibromoethane	13	U
108-90-7	Chlorobenzene	13	U
100-41-4	Ethylbenzene	13	U
1330-20-7	Xylene (total)	13	U
100-42-5	Styrene	13	U
75-25-2	Bromoform	13	U
98-82-8	Isopropylbenzene	13	U
79-34-5	1,1,2,2-Tetrachloroethane	13	U
541-73-1	1,3 Dichlorobenzene	13	U
106-46-7	1,4 Dichlorobenzene	13	U
95-50-1	1,2 Dichlorobenzene	13	U
96-12-8	1,2-Dibromo-3-chloropropane	13	U
120-82-1	1,2,4-Trichlorobenzene	13	U

020066

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL61

Lab Name: ENVIROSYSTEMS Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Matrix: (soil/water) SOIL Lab Sample ID: 00041170

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 041170

Level: (low/med) LOW Date Received: 04/22/00

% Moisture: not dec. ~~25~~ 24 Date Analyzed: 04/25/00

GC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	13	U
74-87-3	Chloromethane	13	U
75-01-4	Vinyl Chloride	13	U
74-83-9	Bromomethane	13	U
75-00-3	Chloroethane	13	U
75-69-4	Trichlorofluoromethane	13	U
75-35-4	1,1-Dichloroethene	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluo	13	U
	1,2,2-trifluoroethane	13	U
67-64-1	Acetone	13	U
75-15-0	Carbon Disulfide	13	U
79-20-9	Methyl Acetate	13	U
75-09-2	Methylene Chloride	13	U
156-60-5	trans-1,2-Dichloroethene	13	U
1634-04-4	tert-Butyl Methyl Ether	13	U
75-34-3	1,1-Dichloroethane	13	U
156-59-2	cis-1,2-Dichloroethene	13	U
78-93-3	2-Butanone	13	U
67-66-3	Chloroform	13	U
71-55-6	1,1,1-Trichloroethane	13	U
110-82-7	Cyclohexane	13	U
56-23-5	Carbon Tetrachloride	13	U
71-43-2	Benzene	13	U
107-06-2	1,2-Dichloroethane	13	U

0.0077

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL61

Lab Name: ENVIROSYSTEMS Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Matrix: (soil/water) SOIL Lab Sample ID: 00041170

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 041170

Level: (low/med) LOW Date Received: 04/22/00

% Moisture: not dec. ~~28~~ 24 Date Analyzed: 04/25/00

GC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	13	U
108-87-2	Methylcyclohexane	13	U
78-87-5	1,2-Dichloropropane	13	U
75-27-4	Bromodichloromethane	13	U
10061-01-5	cis-1,3-Dichloropropene	13	U
108-10-1	4-Methyl-2-Pentanone	13	U
108-88-3	Toluene	13	U
10061-02-6	trans-1,3-Dichloropropene	13	U
79-00-5	1,1,2-Trichloroethane	13	U
127-18-4	Tetrachloroethene	13	U
591-78-6	2-Hexanone	13	U
124-48-1	Dibromochloromethane	13	U
106-93-4	1,2-Dibromoethane	13	U
108-90-7	Chlorobenzene	13	U
100-41-4	Ethylbenzene	13	U
1330-20-7	Xylene (total)	13	U
100-42-5	Styrene	13	U
75-25-2	Bromoform	13	U
98-82-8	Isopropylbenzene	13	U
79-34-5	1,1,2,2-Tetrachloroethane	13	U
541-73-1	1,3 Dichlorobenzene	13	U
106-46-7	1,4 Dichlorobenzene	13	U
95-50-1	1,2 Dichlorobenzene	13	U
96-12-8	1,2-Dibromo-3-chloropropane	13	U
120-82-1	1,2,4-Trichlorobenzene	13	U

041078

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL62

Lab Name: ENVIROSYSTEMS Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Matrix: (soil/water) SOIL Lab Sample ID: 00041171

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 041171

Level: (low/med) LOW Date Received: 04/22/00

% Moisture: not dec. 18 Date Analyzed: 04/25/00

GC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	12	U
74-87-3	Chloromethane	12	U
75-01-4	Vinyl Chloride	12	U
74-83-9	Bromomethane	12	U
75-00-3	Chloroethane	12	U
75-69-4	Trichlorofluoromethane	12	U
75-35-4	1,1-Dichloroethene	12	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluo	12	U
	1,2,2-trifluoroethane	12	U
67-64-1	Acetone	12	U
75-15-0	Carbon Disulfide	12	U
79-20-9	Methyl Acetate	12	U
75-09-2	Methylene Chloride	12	U
156-60-5	trans-1,2-Dichloroethene	12	U
1634-04-4	tert-Butyl Methyl Ether	12	U
75-34-3	1,1-Dichloroethane	12	U
156-59-2	cis-1,2-Dichloroethene	12	U
78-93-3	2-Butanone	12	U
67-66-3	Chloroform	12	U
71-55-6	1,1,1-Trichloroethane	12	U
110-82-7	Cyclohexane	12	U
56-23-5	Carbon Tetrachloride	12	U
71-43-2	Benzene	12	U
107-06-2	1,2-Dichloroethane	12	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL62

Lab Name: ENVIROSYSTEMS Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Matrix: (soil/water) SOIL Lab Sample ID: 00041171

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 041171

Level: (low/med) LOW Date Received: 04/22/00

% Moisture: not dec. 18 Date Analyzed: 04/25/00

GC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	12	U
108-87-2	Methylcyclohexane	12	U
78-87-5	1,2-Dichloropropane	12	U
75-27-4	Bromodichloromethane	12	U
10061-01-5	cis-1,3-Dichloropropene	12	U
108-10-1	4-Methyl-2-Pentanone	12	U
108-88-3	Toluene	12	U
10061-02-6	trans-1,3-Dichloropropene	12	U
79-00-5	1,1,2-Trichloroethane	12	U
127-18-4	Tetrachloroethene	12	U
591-78-6	2-Hexanone	12	U
124-48-1	Dibromochloromethane	12	U
106-93-4	1,2-Dibromoethane	12	U
108-90-7	Chlorobenzene	12	U
100-41-4	Ethylbenzene	12	U
1330-20-7	Xylene (total)	12	U
100-42-5	Styrene	12	U
75-25-2	Bromoform	12	U
98-82-8	Isopropylbenzene	12	U
79-34-5	1,1,2,2-Tetrachloroethane	12	U
541-73-1	1,3 Dichlorobenzene	12	U
106-46-7	1,4 Dichlorobenzene	12	U
95-50-1	1,2 Dichlorobenzene	12	U
96-12-8	1,2-Dibromo-3-chloropropane	12	U
120-82-1	1,2,4-Trichlorobenzene	12	U

040087

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL63

Lab Name: ENVIROSYSTEMS Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Matrix: (soil/water) SOIL Lab Sample ID: 00041172

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 041169

Level: (low/med) LOW Date Received: 04/22/00

% Moisture: not dec. 18 Date Analyzed: 04/25/00

GC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	12	U
74-87-3	Chloromethane	12	U
75-01-4	Vinyl Chloride	12	U
74-83-9	Bromomethane	12	U
75-00-3	Chloroethane	12	U
75-69-4	Trichlorofluoromethane	12	U
75-35-4	1,1-Dichloroethene	8	J
76-13-1	1,1,2-Trichloro-1,2,2-trifluo	12	U
	1,2,2-trifluoroethane	12	U
67-64-1	Acetone	12	U
75-15-0	Carbon Disulfide	12	U
79-20-9	Methyl Acetate	12	U
75-09-2	Methylene Chloride	12	U
156-60-5	trans-1,2-Dichloroethene	12	U
1634-04-4	tert-Butyl Methyl Ether	12	U
75-34-3	1,1-Dichloroethane	3	J
156-59-2	cis-1,2-Dichloroethene	12	U
78-93-3	2-Butanone	12	U
67-66-3	Chloroform	12	U
71-55-6	1,1,1-Trichloroethane	16	
110-82-7	Cyclohexane	12	U
56-23-5	Carbon Tetrachloride	12	U
71-43-2	Benzene	12	U
107-06-2	1,2-Dichloroethane	12	U

0 0095

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL63

Lab Name: ENVIROSYSTEMS Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Matrix: (soil/water) SOIL Lab Sample ID: 00041172

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 041169

Level: (low/med) LOW Date Received: 04/22/00

% Moisture: not dec. 18 Date Analyzed: 04/25/00

GC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	12	U
108-87-2	Methylcyclohexane	12	U
78-87-5	1,2-Dichloropropane	12	U
75-27-4	Bromodichloromethane	12	U
10061-01-5	cis-1,3-Dichloropropene	12	U
108-10-1	4-Methyl-2-Pentanone	12	U
108-88-3	Toluene	12	U
10061-02-6	trans-1,3-Dichloropropene	12	U
79-00-5	1,1,2-Trichloroethane	12	U
127-18-4	Tetrachloroethene	9	J
591-78-6	2-Hexanone	12	U
124-48-1	Dibromochloromethane	12	U
106-93-4	1,2-Dibromoethane	12	U
108-90-7	Chlorobenzene	12	U
100-41-4	Ethylbenzene	12	U
1330-20-7	Xylene (total)	12	U
100-42-5	Styrene	12	U
75-25-2	Bromoform	12	U
98-82-8	Isopropylbenzene	12	U
79-34-5	1,1,2,2-Tetrachloroethane	12	U
541-73-1	1,3 Dichlorobenzene	12	U
106-46-7	1,4 Dichlorobenzene	12	U
95-50-1	1,2 Dichlorobenzene	12	U
96-12-8	1,2-Dibromo-3-chloropropane	12	U
120-82-1	1,2,4-Trichlorobenzene	12	U

0041C96

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL64

Lab Name: ENVIROSYSTEMS Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Matrix: (soil/water) SOIL Lab Sample ID: 00041173

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 041173

Level: (low/med) LOW Date Received: 04/22/00

% Moisture: not dec. 31 Date Analyzed: 04/25/00

GC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	14	U
74-87-3	Chloromethane	14	U
75-01-4	Vinyl Chloride	14	U
74-83-9	Bromomethane	14	U
75-00-3	Chloroethane	14	U
75-69-4	Trichlorofluoromethane	14	U
75-35-4	1,1-Dichloroethene	14	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluo	14	U
	1,2,2-trifluoroethane	14	U
67-64-1	Acetone	37	
75-15-0	Carbon Disulfide	14	U
79-20-9	Methyl Acetate	14	U
75-09-2	Methylene Chloride	14	U
156-60-5	trans-1,2-Dichloroethene	14	U
1634-04-4	tert-Butyl Methyl Ether	14	U
75-34-3	1,1-Dichloroethane	14	U
156-59-2	cis-1,2-Dichloroethene	14	U
78-93-3	2-Butanone	14	U
67-66-3	Chloroform	14	U
71-55-6	1,1,1-Trichloroethane	14	U
110-82-7	Cyclohexane	14	U
56-23-5	Carbon Tetrachloride	14	U
71-43-2	Benzene	14	U
107-06-2	1,2-Dichloroethane	14	U

041116

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL64

Lab Name: ENVIROSYSTEMS Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Matrix: (soil/water) SOIL Lab Sample ID: 00041173

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 041173

Level: (low/med) LOW Date Received: 04/22/00

% Moisture: not dec. 31 Date Analyzed: 04/25/00

GC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	14	U
108-87-2	Methylcyclohexane	14	U
78-87-5	1,2-Dichloropropane	14	U
75-27-4	Bromodichloromethane	14	U
10061-01-5	cis-1,3-Dichloropropene	14	U
108-10-1	4-Methyl-2-Pentanone	14	U
108-88-3	Toluene	14	U
10061-02-6	trans-1,3-Dichloropropene	14	U
79-00-5	1,1,2-Trichloroethane	14	U
127-18-4	Tetrachloroethene	14	U
591-78-6	2-Hexanone	14	U
124-48-1	Dibromochloromethane	14	U
106-93-4	1,2-Dibromoethane	14	U
108-90-7	Chlorobenzene	14	U
100-41-4	Ethylbenzene	14	U
1330-20-7	Xylene (total)	14	U
100-42-5	Styrene	14	U
75-25-2	Bromoform	14	U
98-82-8	Isopropylbenzene	14	U
79-34-5	1,1,2,2-Tetrachloroethane	14	U
541-73-1	1,3 Dichlorobenzene	14	U
106-46-7	1,4 Dichlorobenzene	14	U
95-50-1	1,2 Dichlorobenzene	14	U
96-12-8	1,2-Dibromo-3-chloropropane	14	U
120-82-1	1,2,4-Trichlorobenzene	14	U

VOLATILE ORGANICS ANALYSIS DATA SHEET

CSL65

Lab Name: ENVIROSYSTEMS Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Matrix: (soil/water) SOIL Lab Sample ID: 00041174

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 041174

Level (low/med) LOW Date Received: 04/24/00

% Moisture: not dec. 12 Date Analyzed: 04/25/00

GC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	11	U
74-87-3	Chloromethane	11	U
75-01-4	Vinyl Chloride	11	U
74-83-9	Bromomethane	11	U
75-00-3	Chloroethane	11	U
75-69-4	Trichlorofluoromethane	11	U
75-35-4	1,1-Dichloroethene	11	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluo	11	U
	1,2,2-trifluoroethane	11	U
67-64-1	Acetone	11	U
75-15-0	Carbon Disulfide	11	U
79-20-9	Methyl Acetate	11	U
75-09-2	Methylene Chloride	11	U
156-60-5	trans-1,2-Dichloroethene	11	U
1634-04-4	tert-Butyl Methyl Ether	11	U
75-34-3	1,1-Dichloroethane	11	U
156-59-2	cis-1,2-Dichloroethene	11	U
78-93-3	2-Butanone	11	U
67-66-3	Chloroform	11	U
71-55-6	1,1,1-Trichloroethane	11	U
110-82-7	Cyclohexane	11	U
56-23-5	Carbon Tetrachloride	11	U
71-43-2	Benzene	11	U
107-06-2	1,2-Dichloroethane	11	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CSL65

Lab Name: ENVIROSYSTEMS Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Matrix: (soil/water) SOIL Lab Sample ID: 00041174

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 041174

Level: (low/med) LOW Date Received: 04/24/00

% Moisture: not dec. 12 Date Analyzed: 04/25/00

GC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	11	U
108-87-2	Methylcyclohexane	11	U
78-87-5	1,2-Dichloropropane	11	U
75-27-4	Bromodichloromethane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
108-10-1	4-Methyl-2-Pentanone	11	U
108-88-3	Toluene	11	U
10061-02-6	trans-1,3-Dichloropropene	11	U
79-00-5	1,1,2-Trichloroethane	11	U
127-18-4	Tetrachloroethene	11	U
591-78-6	2-Hexanone	11	U
124-48-1	Dibromochloromethane	11	U
106-93-4	1,2-Dibromoethane	11	U
108-90-7	Chlorobenzene	11	U
100-41-4	Ethylbenzene	11	U
1330-20-7	Xylene (total)	11	U
100-42-5	Styrene	11	U
75-25-2	Bromoform	11	U
98-82-8	Isopropylbenzene	11	U
79-34-5	1,1,2,2-Tetrachloroethane	11	U
541-73-1	1,3 Dichlorobenzene	11	U
106-46-7	1,4 Dichlorobenzene	11	U
95-50-1	1,2 Dichlorobenzene	11	U
96-12-8	1,2-Dibromo-3-chloropropane	11	U
120-82-1	1,2,4-Trichlorobenzene	11	U

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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL66

Lab Name: ENVIROSYSTEMS Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Matrix: (soil/water) SOIL Lab Sample ID: 00041175

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 041175

Level: (low/med) LOW Date Received: 04/22/00

% Moisture: not dec. 18 Date Analyzed: 04/26/00

GC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	12	U
74-87-3	Chloromethane	12	U
75-01-4	Vinyl Chloride	12	U
74-83-9	Bromomethane	12	U
75-00-3	Chloroethane	12	U
75-69-4	Trichlorofluoromethane	12	U
75-35-4	1,1-Dichloroethene	12	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluo	12	U
----------	1,2,2-trifluoroethane	12	U
67-64-1	Acetone	12	U
75-15-0	Carbon Disulfide	12	U
79-20-9	Methyl Acetate	12	U
75-09-2	Methylene Chloride	12	U
156-60-5	trans-1,2-Dichloroethene	12	U
1634-04-4	tert-Butyl Methyl Ether	12	U
75-34-3	1,1-Dichloroethane	12	U
156-59-2	cis-1,2-Dichloroethene	12	U
78-93-3	2-Butanone	12	U
67-66-3	Chloroform	12	U
71-55-6	1,1,1-Trichloroethane	12	U
110-82-7	Cyclohexane	12	U
56-23-5	Carbon Tetrachloride	12	U
71-43-2	Benzene	12	U
107-06-2	1,2-Dichloroethane	12	U

020137

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL66

Lab Name: ENVIROSYSTEMS Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Matrix: (soil/water) SOIL Lab Sample ID: 00041175

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 041175

Level: (low/med) LOW Date Received: 04/22/00

% Moisture: not dec. 18 Date Analyzed: 04/26/00

GC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	12	U
108-87-2	Methylcyclohexane	12	U
78-87-5	1,2-Dichloropropane	12	U
75-27-4	Bromodichloromethane	12	U
10061-01-5	cis-1,3-Dichloropropene	12	U
108-10-1	4-Methyl-2-Pentanone	12	U
108-88-3	Toluene	12	U
10061-02-6	trans-1,3-Dichloropropene	12	U
79-00-5	1,1,2-Trichloroethane	12	U
127-18-4	Tetrachloroethene	12	U
591-78-6	2-Hexanone	12	U
124-48-1	Dibromochloromethane	12	U
106-93-4	1,2-Dibromoethane	12	U
108-90-7	Chlorobenzene	12	U
100-41-4	Ethylbenzene	12	U
1330-20-7	Xylene (total)	12	U
100-42-5	Styrene	12	U
75-25-2	Bromoform	12	U
98-82-8	Isopropylbenzene	12	U
79-34-5	1,1,2,2-Tetrachloroethane	12	U
541-73-1	1,3 Dichlorobenzene	12	U
106-46-7	1,4 Dichlorobenzene	12	U
95-50-1	1,2 Dichlorobenzene	12	U
96-12-8	1,2-Dibromo-3-chloropropane	12	U
120-82-1	1,2,4-Trichlorobenzene	12	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL67

Lab Name: ENVIROSYSTEMS Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Matrix: (soil/water) SOIL Lab Sample ID: 00041176

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 041176

Level: (low/med) LOW Date Received: 04/22/00

% Moisture: not dec. 19 Date Analyzed: 04/26/00

GC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	12	U
74-87-3	Chloromethane	12	U
75-01-4	Vinyl Chloride	12	U
74-83-9	Bromomethane	12	U
75-00-3	Chloroethane	12	U
75-69-4	Trichlorofluoromethane	12	U
75-35-4	1,1-Dichloroethene	12	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluo	12	U
	1,2,2-trifluoroethane	12	U
67-64-1	Acetone	12	U
75-15-0	Carbon Disulfide	12	U
79-20-9	Methyl Acetate	12	U
75-09-2	Methylene Chloride	12	U
156-60-5	trans-1,2-Dichloroethene	12	U
1634-04-4	tert-Butyl Methyl Ether	12	U
75-34-3	1,1-Dichloroethane	12	U
156-59-2	cis-1,2-Dichloroethene	12	U
78-93-3	2-Butanone	12	U
67-66-3	Chloroform	12	U
71-55-6	1,1,1-Trichloroethane	12	U
110-82-7	Cyclohexane	12	U
56-23-5	Carbon Tetrachloride	12	U
71-43-2	Benzene	12	U
107-06-2	1,2-Dichloroethane	12	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL67

Lab Name: ENVIROSYSTEMS Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Matrix: (soil/water) SOIL Lab Sample ID: 00041176

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 041176

Level: (low/med) LOW Date Received: 04/22/00

% Moisture: not dec. 19 Date Analyzed: 04/26/00

GC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	12	U
108-87-2	Methylcyclohexane	12	U
78-87-5	1,2-Dichloropropane	12	U
75-27-4	Bromodichloromethane	12	U
10061-01-5	cis-1,3-Dichloropropene	12	U
108-10-1	4-Methyl-2-Pentanone	12	U
108-88-3	Toluene	12	U
10061-02-6	trans-1,3-Dichloropropene	12	U
79-00-5	1,1,2-Trichloroethane	12	U
127-18-4	Tetrachloroethene	12	U
591-78-6	2-Hexanone	12	U
124-48-1	Dibromochloromethane	12	U
106-93-4	1,2-Dibromoethane	12	U
108-90-7	Chlorobenzene	12	U
100-41-4	Ethylbenzene	12	U
1330-20-7	Xylene (total)	12	U
100-42-5	Styrene	12	U
75-25-2	Bromoform	12	U
98-82-8	Isopropylbenzene	12	U
79-34-5	1,1,2,2-Tetrachloroethane	12	U
541-73-1	1,3 Dichlorobenzene	12	U
106-46-7	1,4 Dichlorobenzene	12	U
95-50-1	1,2 Dichlorobenzene	12	U
96-12-8	1,2-Dibromo-3-chloropropane	12	U
120-82-1	1,2,4-Trichlorobenzene	12	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL68

Lab Name: ENVIROSYSTEMS Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Matrix: (soil/water) SOIL Lab Sample ID: 00041177

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 041177

Level: (low/med) LOW Date Received: 04/22/00

% Moisture: not dec. 19 Date Analyzed: 04/26/00

GC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	12	U
74-87-3	Chloromethane	12	U
75-01-4	Vinyl Chloride	12	U
74-83-9	Bromomethane	12	U
75-00-3	Chloroethane	12	U
75-69-4	Trichlorofluoromethane	12	U
75-35-4	1,1-Dichloroethene	12	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluo	12	U
	1,2,2-trifluoroethane	12	U
67-64-1	Acetone	12	U
75-15-0	Carbon Disulfide	12	U
79-20-9	Methyl Acetate	12	U
75-09-2	Methylene Chloride	12	U
156-60-5	trans-1,2-Dichloroethene	12	U
1634-04-4	tert-Butyl Methyl Ether	12	U
75-34-3	1,1-Dichloroethane	12	U
156-59-2	cis-1,2-Dichloroethene	12	U
78-93-3	2-Butanone	14	
67-66-3	Chloroform	12	U
71-55-6	1,1,1-Trichloroethane	12	U
110-82-7	Cyclohexane	12	U
56-23-5	Carbon Tetrachloride	12	U
71-43-2	Benzene	12	U
107-06-2	1,2-Dichloroethane	12	U

0041170

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL68

Lab Name: ENVIROSYSTEMS Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Matrix: (soil/water) SOIL Lab Sample ID: 00041177

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 041177

Level: (low/med) LOW Date Received: 04/22/00

% Moisture: not dec. 19 Date Analyzed: 04/26/00

GC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	12	U
108-87-2	Methylcyclohexane	12	U
78-87-5	1,2-Dichloropropane	12	U
75-27-4	Bromodichloromethane	12	U
10061-01-5	cis-1,3-Dichloropropene	12	U
108-10-1	4-Methyl-2-Pentanone	12	U
108-88-3	Toluene	12	U
10061-02-6	trans-1,3-Dichloropropene	12	U
79-00-5	1,1,2-Trichloroethane	12	U
127-18-4	Tetrachloroethene	12	U
591-78-6	2-Hexanone	12	U
124-48-1	Dibromochloromethane	12	U
106-93-4	1,2-Dibromoethane	12	U
108-90-7	Chlorobenzene	12	U
100-41-4	Ethylbenzene	12	U
1330-20-7	Xylene (total)	12	U
100-42-5	Styrene	12	U
75-25-2	Bromoform	12	U
98-82-8	Isopropylbenzene	12	U
79-34-5	1,1,2,2-Tetrachloroethane	12	U
541-73-1	1,3 Dichlorobenzene	12	U
106-46-7	1,4 Dichlorobenzene	12	U
95-50-1	1,2 Dichlorobenzene	12	U
96-12-8	1,2-Dibromo-3-chloropropane	12	U
120-82-1	1,2,4-Trichlorobenzene	12	U

041171

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL69

Lab Name: ENVIROSYSTEMS Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Matrix: (soil/water) SOIL Lab Sample ID: 00041178

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 041178

Level: (low/med) LOW Date Received: 04/22/00

% Moisture: not dec. 29 Date Analyzed: 04/26/00

GC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	14	U
74-87-3	Chloromethane	14	U
75-01-4	Vinyl Chloride	14	U
74-83-9	Bromomethane	14	U
75-00-3	Chloroethane	14	U
75-69-4	Trichlorofluoromethane	14	U
75-35-4	1,1-Dichloroethene	14	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluo	14	U
	1,2,2-trifluoroethane	14	U
67-64-1	Acetone	14	U
75-15-0	Carbon Disulfide	14	U
79-20-9	Methyl Acetate	14	U
75-09-2	Methylene Chloride	14	U
156-60-5	trans-1,2-Dichloroethene	14	U
1634-04-4	tert-Butyl Methyl Ether	14	U
75-34-3	1,1-Dichloroethane	14	U
156-59-2	cis-1,2-Dichloroethene	14	U
78-93-3	2-Butanone	17	
67-66-3	Chloroform	14	U
71-55-6	1,1,1-Trichloroethane	14	U
110-82-7	Cyclohexane	14	U
56-23-5	Carbon Tetrachloride	14	U
71-43-2	Benzene	14	U
107-06-2	1,2-Dichloroethane	14	U

041182

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL69

Lab Name: ENVIROSYSTEMS Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Matrix: (soil/water) SOIL Lab Sample ID: 00041178

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 041178

Level: (low/med) LOW Date Received: 04/22/00

% Moisture: not dec. 29 Date Analyzed: 04/26/00

GC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	14	U
108-87-2	Methylcyclohexane	14	U
78-87-5	1,2-Dichloropropane	14	U
75-27-4	Bromodichloromethane	14	U
10061-01-5	cis-1,3-Dichloropropene	14	U
108-10-1	4-Methyl-2-Pentanone	14	U
108-88-3	Toluene	14	U
10061-02-6	trans-1,3-Dichloropropene	14	U
79-00-5	1,1,2-Trichloroethane	14	U
127-18-4	Tetrachloroethene	14	U
591-78-6	2-Hexanone	14	U
124-48-1	Dibromochloromethane	14	U
106-93-4	1,2-Dibromoethane	14	U
108-90-7	Chlorobenzene	14	U
100-41-4	Ethylbenzene	14	U
1330-20-7	Xylene (total)	14	U
100-42-5	Styrene	14	U
75-25-2	Bromoform	14	U
98-82-8	Isopropylbenzene	14	U
79-34-5	1,1,2,2-Tetrachloroethane	14	U
541-73-1	1,3 Dichlorobenzene	14	U
106-46-7	1,4 Dichlorobenzene	14	U
95-50-1	1,2 Dichlorobenzene	14	U
96-12-8	1,2-Dibromo-3-chloropropane	14	U
120-82-1	1,2,4-Trichlorobenzene	14	U

02 0183

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL45

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL45

Matrix: (soil/water) WATER Lab Sample ID: 00041153

Sample wt/vol: 1000 (g/mL) ML Lab File ID: H73GB683

Level: (low/med) LOW Date Received: 04/21/00

% Moisture: _____ Decanted: (Y/N)___ Date Extracted: 04/25/00

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/02/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-52-7	Benzaldehyde	10	U
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
98-86-2	Acetophenone	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
120-83-2	2,4-Dichlorophenol	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
87-68-3	Hexachlorobutadiene	10	U
105-60-2	Caprolactam	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	25	U
92-52-4	1,1'-Biphenyl	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
208-96-8	Acenaphthylene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL45

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL45

Matrix: (soil/water) WATER Lab Sample ID: 00041153

Sample wt/vol: 1000 (g/mL) ML Lab File ID: H73GB683

Level: (low/med) LOW Date Received: 04/21/00

% Moisture: _____ Decanted: (Y/N)___ Date Extracted: 04/25/00

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/02/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
1912-24-9	Atrazine	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	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	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL46

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL45

Matrix: (soil/water) WATER Lab Sample ID: 00041154

Sample wt/vol: 1000 (g/mL) ML Lab File ID: H73GB686

Level: (low/med) LOW Date Received: 04/21/00

% Moisture: _____ Decanted: (Y/N)___ Date Extracted: 04/25/00

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/02/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-52-7	Benzaldehyde	10	U
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
98-86-2	Acetophenone	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
120-83-2	2,4-Dichlorophenol	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
87-68-3	Hexachlorobutadiene	10	U
105-60-2	Caprolactam	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	25	U
92-52-4	1,1'-Biphenyl	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
208-96-8	Acenaphthylene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL46

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL45

Matrix: (soil/water) WATER Lab Sample ID: 00041154

Sample wt/vol: 1000 (g/mL) ML Lab File ID: H73GB686

Level: (low/med) LOW Date Received: 04/21/00

% Moisture: _____ Decanted: (Y/N)___ Date Extracted: 04/25/00

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/02/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
1912-24-9	Atrazine	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	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	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL47

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL45

Matrix: (soil/water) WATER Lab Sample ID: 00041155

Sample wt/vol: 1000 (g/mL) ML Lab File ID: H73GB687

Level: (low/med) LOW Date Received: 04/21/00

% Moisture: _____ Decanted: (Y/N) ___ Date Extracted: 04/25/00

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/02/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-52-7	Benzaldehyde	10	U
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
98-86-2	Acetophenone	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
120-83-2	2,4-Dichlorophenol	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
87-68-3	Hexachlorobutadiene	10	U
105-60-2	Caprolactam	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	25	U
92-52-4	1,1'-Biphenyl	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
208-96-8	Acenaphthylene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL47

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL45

Matrix: (soil/water) WATER Lab Sample ID: 00041155

Sample wt/vol: 1000 (g/mL) ML Lab File ID: H73GB687

Level: (low/med) LOW Date Received: 04/21/00

% Moisture: _____ Decanted: (Y/N)___ Date Extracted: 04/25/00

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/02/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
1912-24-9	Atrazine	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	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	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL48

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL45

Matrix: (soil/water) WATER Lab Sample ID: 00041156

Sample wt/vol: 1000 (g/mL) ML Lab File ID: H73GB690

Level: (low/med) LOW Date Received: 04/21/00

% Moisture: _____ Decanted: (Y/N)___ Date Extracted: 04/25/00

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/03/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-52-7	Benzaldehyde	10	U
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
98-86-2	Acetophenone	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
120-83-2	2,4-Dichlorophenol	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
87-68-3	Hexachlorobutadiene	10	U
105-60-2	Caprolactam	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	25	U
92-52-4	1,1'-Biphenyl	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
208-96-8	Acenaphthylene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL48

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL45

Matrix: (soil/water) WATER Lab Sample ID: 00041156

Sample wt/vol: 1000 (g/mL) ML Lab File ID: H73GB690

Level: (low/med) LOW Date Received: 04/21/00

% Moisture: _____ Decanted: (Y/N)___ Date Extracted: 04/25/00

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/03/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
1912-24-9	Atrazine	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	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	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL49

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL45

Matrix: (soil/water) WATER Lab Sample ID: 0041157

Sample wt/vol: 1000 (g/mL) ML Lab File ID: H73GB691

Level: (low/med) LOW Date Received: 04/21/00

% Moisture: _____ Decanted: (Y/N)___ Date Extracted: 04/25/00

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/03/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-52-7	Benzaldehyde	10	U
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
98-86-2	Acetophenone	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
120-83-2	2,4-Dichlorophenol	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
87-68-3	Hexachlorobutadiene	10	U
105-60-2	Caprolactam	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	25	U
92-52-4	1,1'-Biphenyl	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
208-96-8	Acenaphthylene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL49

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL45

Matrix: (soil/water) WATER Lab Sample ID: 0041157

Sample wt/vol: 1000 (g/mL) ML Lab File ID: H73GB691

Level: (low/med) LOW Date Received: 04/21/00

% Moisture: _____ Decanted: (Y/N)___ Date Extracted: 04/25/00

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/03/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
1912-24-9	Atrazine	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	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	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL50

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL45

Matrix: (soil/water) WATER Lab Sample ID: 00041158

Sample wt/vol: 1000 (g/mL) ML Lab File ID: H73GB692

Level: (low/med) LOW Date Received: 04/21/00

% Moisture: _____ Decanted: (Y/N)___ Date Extracted: 04/25/00

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/03/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-52-7	Benzaldehyde	10	U
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
98-86-2	Acetophenone	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
120-83-2	2,4-Dichlorophenol	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
87-68-3	Hexachlorobutadiene	10	U
105-60-2	Caprolactam	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	25	U
92-52-4	1,1'-Biphenyl	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
208-96-8	Acenaphthylene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL50

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL45

Matrix: (soil/water) WATER Lab Sample ID: 00041158

Sample wt/vol: 1000 (g/mL) ML Lab File ID: H73GB692

Level: (low/med) LOW Date Received: 04/21/00

% Moisture: _____ Decanted: (Y/N)___ Date Extracted: 04/25/00

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/03/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine_(1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
1912-24-9	Atrazine	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	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	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL51

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL45

Matrix: (soil/water) WATER Lab Sample ID: 00041159

Sample wt/vol: 1000 (g/mL) ML Lab File ID: H73GB693

Level: (low/med) LOW Date Received: 04/21/00

% Moisture: _____ Decanted: (Y/N)___ Date Extracted: 04/25/00

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/03/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-52-7	Benzaldehyde	10	U
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
98-86-2	Acetophenone	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
120-83-2	2,4-Dichlorophenol	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
87-68-3	Hexachlorobutadiene	10	U
105-60-2	Caprolactam	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	25	U
92-52-4	1,1'-Biphenyl	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
208-96-8	Acenaphthylene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL51

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL45

Matrix: (soil/water) WATER Lab Sample ID: 00041159

Sample wt/vol: 1000 (g/mL) ML Lab File ID: H73GB693

Level: (low/med) LOW Date Received: 04/21/00

% Moisture: _____ Decanted: (Y/N)___ Date Extracted: 04/25/00

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/03/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
1912-24-9	Atrazine	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	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	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL52

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL45

Matrix: (soil/water) WATER Lab Sample ID: 00041160

Sample wt/vol: 1000 (g/mL) ML Lab File ID: H73GB694

Level: (low/med) LOW Date Received: 04/21/00

% Moisture: _____ Decanted: (Y/N)___ Date Extracted: 04/25/00

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/03/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-52-7	Benzaldehyde	10	U
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
98-86-2	Acetophenone	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
120-83-2	2,4-Dichlorophenol	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
87-68-3	Hexachlorobutadiene	10	U
105-60-2	Caprolactam	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	25	U
92-52-4	1,1'-Biphenyl	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
208-96-8	Acenaphthylene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL52

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL45

Matrix: (soil/water) WATER Lab Sample ID: 00041160

Sample wt/vol: 1000 (g/mL) ML Lab File ID: H73GB694

Level: (low/med) LOW Date Received: 04/21/00

% Moisture: _____ Decanted: (Y/N)___ Date Extracted: 04/25/00

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/03/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
1912-24-9	Atrazine	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	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	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL53

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL45

Matrix: (soil/water) WATER Lab Sample ID: 00041161

Sample wt/vol: 1000 (g/mL) ML Lab File ID: H73GB695

Level: (low/med) LOW Date Received: 04/21/00

% Moisture: _____ Decanted: (Y/N)___ Date Extracted: 04/25/00

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/03/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-52-7	Benzaldehyde	10	U
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
98-86-2	Acetophenone	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
120-83-2	2,4-Dichlorophenol	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
87-68-3	Hexachlorobutadiene	10	U
105-60-2	Caprolactam	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	25	U
92-52-4	1,1'-Biphenyl	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
208-96-8	Acenaphthylene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL53

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL45

Matrix: (soil/water) WATER Lab Sample ID: 00041161

Sample wt/vol: 1000 (g/mL) ML Lab File ID: H73GB695

Level: (low/med) LOW Date Received: 04/21/00

% Moisture: _____ Decanted: (Y/N)___ Date Extracted: 04/25/00

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/03/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
1912-24-9	Atrazine	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	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	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

041302

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL54

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL45

Matrix: (soil/water) WATER Lab Sample ID: 00041162

Sample wt/vol: 1000 (g/mL) ML Lab File ID: H73GB696

Level: (low/med) LOW Date Received: 04/21/00

% Moisture: _____ Decanted: (Y/N)___ Date Extracted: 04/25/00

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/03/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-52-7	Benzaldehyde	10	U
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
98-86-2	Acetophenone	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
120-83-2	2,4-Dichlorophenol	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
87-68-3	Hexachlorobutadiene	10	U
105-60-2	Caprolactam	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	25	U
92-52-4	1,1'-Biphenyl	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
208-96-8	Acenaphthylene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL54

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL45

Matrix: (soil/water) WATER Lab Sample ID: 00041162

Sample wt/vol: 1000 (g/mL) ML Lab File ID: H73GB696

Level: (low/med) LOW Date Received: 04/21/00

% Moisture: _____ Decanted: (Y/N)___ Date Extracted: 04/25/00

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/03/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
1912-24-9	Atrazine	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	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	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL70

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL45

Matrix: (soil/water) WATER Lab Sample ID: 00041163

Sample wt/vol: 1000 (g/mL) ML Lab File ID: H73GB697

Level: (low/med) LOW Date Received: 04/21/00

% Moisture: _____ Decanted: (Y/N)___ Date Extracted: 04/25/00

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/03/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-52-7	Benzaldehyde	10	U
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
98-86-2	Acetophenone	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
120-83-2	2,4-Dichlorophenol	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
87-68-3	Hexachlorobutadiene	10	U
105-60-2	Caprolactam	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	25	U
92-52-4	1,1'-Biphenyl	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
208-96-8	Acenaphthylene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL70

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL45

Matrix: (soil/water) WATER Lab Sample ID: 00041163

Sample wt/vol: 1000 (g/mL) ML Lab File ID: H73GB697

Level: (low/med) LOW Date Received: 04/21/00

% Moisture: _____ Decanted: (Y/N)___ Date Extracted: 04/25/00

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/03/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	5	J
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
1912-24-9	Atrazine	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	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	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL55

Lab Name: ENVIROSYSTEMS, INC. Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Matrix: (soil/water) SOIL Lab Sample ID: 00041165

Sample wt/vol: 30.0(g/mL) G Lab File ID: H73GB701

Level: (low/med) LOW Date Received: 04/22/00

% Moisture: 15 Decanted: (Y/N)N Date Extracted: 04/26/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/04/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	390	U
108-95-2	Phenol	390	U
111-44-4	bis(2-Chloroethyl)Ether	390	U
95-57-8	2-Chlorophenol	390	U
95-48-7	2-Methylphenol	390	U
108-60-1	2,2'-oxybis(1-Chloropropane)	390	U
98-86-2	Acetophenone	390	U
106-44-5	4-Methylphenol	390	U
621-64-7	N-Nitroso-di-n-propylamine	390	U
67-72-1	Hexachloroethane	390	U
98-95-3	Nitrobenzene	390	U
78-59-1	Isophorone	390	U
88-75-5	2-Nitrophenol	390	U
105-67-9	2,4-Dimethylphenol	390	U
120-83-2	2,4-Dichlorophenol	390	U
91-20-3	Naphthalene	390	U
106-47-8	4-Chloroaniline	390	U
111-91-1	bis(2-Chloroethoxy)methane	390	U
87-68-3	Hexachlorobutadiene	390	U
105-60-2	Caprolactam	390	U
59-50-7	4-Chloro-3-methylphenol	390	U
91-57-6	2-Methylnaphthalene	390	U
77-47-4	Hexachlorocyclopentadiene	390	U
88-06-2	2,4,6-Trichlorophenol	390	U
95-95-4	2,4,5-Trichlorophenol	980	U
92-52-4	1,1'-Biphenyl	390	U
91-58-7	2-Chloronaphthalene	390	U
88-74-4	2-Nitroaniline	980	U
131-11-3	Dimethylphthalate	390	U
606-20-2	2,6-Dinitrotoluene	390	U
208-96-8	Acenaphthylene	390	U
99-09-2	3-Nitroaniline	980	U
83-32-9	Acenaphthene	390	U

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL55

Lab Name: ENVIROSYSTEMS, INC. Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Matrix: (soil/water) SOIL Lab Sample ID: 00041165

Sample wt/vol: 30.0(g/mL) G Lab File ID: H73GB701

Level: (low/med) LOW Date Received: 04/22/00

% Moisture: 15 Decanted: (Y/N)N Date Extracted: 04/26/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/04/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	980	U
100-02-7	4-Nitrophenol	980	U
132-64-9	Dibenzofuran	390	U
121-14-2	2,4-Dinitrotoluene	390	U
84-66-2	Diethylphthalate	390	U
86-73-7	Fluorene	390	U
7005-72-3	4-Chlorophenyl-phenylether	390	U
100-01-6	4-Nitroaniline	980	U
534-52-1	4,6-Dinitro-2-methylphenol	980	U
86-30-6	N-Nitrosodiphenylamine_(1)	390	U
101-55-3	4-Bromophenyl-phenylether	390	U
118-74-1	Hexachlorobenzene	390	U
1912-24-9	Atrazine	390	U
87-86-5	Pentachlorophenol	980	U
85-01-8	Phenanthrene	390	U
120-12-7	Anthracene	390	U
86-74-8	Carbazole	390	U
84-74-2	Di-n-butylphthalate	390	U
206-44-0	Fluoranthene	390	U
129-00-0	Pyrene	390	U
85-68-7	Butylbenzylphthalate	390	U
91-94-1	3,3'-Dichlorobenzidine	390	U
56-55-3	Benzo(a)anthracene	390	U
218-01-9	Chrysene	390	U
117-81-7	bis(2-Ethylhexyl)phthalate	390	U
117-84-0	Di-n-octylphthalate	390	U
205-99-2	Benzo(b)fluoranthene	390	U
207-08-9	Benzo(k)fluoranthene	390	U
50-32-8	Benzo(a)pyrene	390	U
193-39-5	Indeno(1,2,3-cd)pyrene	390	U
53-70-3	Dibenzo(a,h)anthracene	390	U
191-24-2	Benzo(g,h,i)perylene	390	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL56

Lab Name: ENVIROSYSTEMS, INC. Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Matrix: (soil/water) SOIL Lab Sample ID: 00041166

Sample wt/vol: 30.0(g/mL) G Lab File ID: H73GB702

Level: (low/med) LOW Date Received: 04/22/00

% Moisture: 24 Decanted: (Y/N)N Date Extracted: 04/26/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/04/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.0 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	430	U
108-95-2	Phenol	430	U
111-44-4	bis(2-Chloroethyl)Ether	430	U
95-57-8	2-Chlorophenol	430	U
95-48-7	2-Methylphenol	430	U
108-60-1	2,2'-oxybis(1-Chloropropane)	430	U
98-86-2	Acetophenone	430	U
106-44-5	4-Methylphenol	430	U
621-64-7	N-Nitroso-di-n-propylamine	430	U
67-72-1	Hexachloroethane	430	U
98-95-3	Nitrobenzene	430	U
78-59-1	Isophorone	430	U
88-75-5	2-Nitrophenol	430	U
105-67-9	2,4-Dimethylphenol	430	U
120-83-2	2,4-Dichlorophenol	430	U
91-20-3	Naphthalene	430	U
106-47-8	4-Chloroaniline	430	U
111-91-1	bis(2-Chloroethoxy)methane	430	U
87-68-3	Hexachlorobutadiene	430	U
105-60-2	Caprolactam	430	U
59-50-7	4-Chloro-3-methylphenol	430	U
91-57-6	2-Methylnaphthalene	430	U
77-47-4	Hexachlorocyclopentadiene	430	U
88-06-2	2,4,6-Trichlorophenol	430	U
95-95-4	2,4,5-Trichlorophenol	1100	U
92-52-4	1,1'-Biphenyl	430	U
91-58-7	2-Chloronaphthalene	430	U
88-74-4	2-Nitroaniline	1100	U
131-11-3	Dimethylphthalate	430	U
606-20-2	2,6-Dinitrotoluene	430	U
208-96-8	Acenaphthylene	430	U
99-09-2	3-Nitroaniline	1100	U
83-32-9	Acenaphthene	430	U

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL56

Lab Name: ENVIROSYSTEMS, INC. Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Matrix: (soil/water) SOIL Lab Sample ID: 00041166

Sample wt/vol: 30.0(g/mL) G Lab File ID: H73GB702

Level: (low/med) LOW Date Received: 04/22/00

% Moisture: 24 Decanted: (Y/N)N Date Extracted: 04/26/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/04/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.0 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1100	U
100-02-7	4-Nitrophenol	1100	U
132-64-9	Dibenzofuran	430	U
121-14-2	2,4-Dinitrotoluene	430	U
84-66-2	Diethylphthalate	430	U
86-73-7	Fluorene	430	U
7005-72-3	4-Chlorophenyl-phenylether	430	U
100-01-6	4-Nitroaniline	1100	U
534-52-1	4,6-Dinitro-2-methylphenol	1100	U
86-30-6	N-Nitrosodiphenylamine (1)	430	U
101-55-3	4-Bromophenyl-phenylether	430	U
118-74-1	Hexachlorobenzene	430	U
1912-24-9	Atrazine	430	U
87-86-5	Pentachlorophenol	1100	U
85-01-8	Phenanthrene	430	U
120-12-7	Anthracene	430	U
86-74-8	Carbazole	430	U
84-74-2	Di-n-butylphthalate	430	U
206-44-0	Fluoranthene	430	U
129-00-0	Pyrene	430	U
85-68-7	Butylbenzylphthalate	430	U
91-94-1	3,3'-Dichlorobenzidine	430	U
56-55-3	Benzo(a)anthracene	430	U
218-01-9	Chrysene	430	U
117-81-7	bis(2-Ethylhexyl)phthalate	220	J
117-84-0	Di-n-octylphthalate	430	U
205-99-2	Benzo(b)fluoranthene	430	U
207-08-9	Benzo(k)fluoranthene	430	U
50-32-8	Benzo(a)pyrene	430	U
193-39-5	Indeno(1,2,3-cd)pyrene	430	U
53-70-3	Dibenzo(a,h)anthracene	430	U
191-24-2	Benzo(g,h,i)perylene	430	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL57

Lab Name: ENVIROSYSTEMS, INC. Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Matrix: (soil/water) SOIL Lab Sample ID: 00041167

Sample wt/vol: 30.0(g/mL) G Lab File ID: H73GB703

Level: (low/med) LOW Date Received: 04/22/00

% Moisture: ~~19~~ 44 (D.W.) Decanted: (Y/N)N Date Extracted: 04/26/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/04/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	UG/KG	Q
100-52-7	Benzaldehyde	590	410	U
108-95-2	Phenol		410	U
111-44-4	bis(2-Chloroethyl)Ether		410	U
95-57-8	2-Chlorophenol		410	U
95-48-7	2-Methylphenol		410	U
108-60-1	2,2'-oxybis(1-Chloropropane)		410	U
98-86-2	Acetophenone		410	U
106-44-5	4-Methylphenol		410	U
621-64-7	N-Nitroso-di-n-propylamine		410	U
67-72-1	Hexachloroethane		410	U
98-95-3	Nitrobenzene		410	U
78-59-1	Isophorone		410	U
88-75-5	2-Nitrophenol		410	U
105-67-9	2,4-Dimethylphenol		410	U
120-83-2	2,4-Dichlorophenol		410	U
91-20-3	Naphthalene		410	U
106-47-8	4-Chloroaniline		410	U
111-91-1	bis(2-Chloroethoxy)methane		410	U
87-68-3	Hexachlorobutadiene		410	U
105-60-2	Caprolactam		410	U
59-50-7	4-Chloro-3-methylphenol		410	U
91-57-6	2-Methylnaphthalene		410	U
77-47-4	Hexachlorocyclopentadiene		410	U
88-06-2	2,4,6-Trichlorophenol		410	U
95-95-4	2,4,5-Trichlorophenol	1500	1000	U
92-52-4	1,1'-Biphenyl	590	410	U
91-58-7	2-Chloronaphthalene	590	410	U
88-74-4	2-Nitroaniline	1500	1000	U
131-11-3	Dimethylphthalate	590	410	U
606-20-2	2,6-Dinitrotoluene		410	U
208-96-8	Acenaphthylene		410	U
99-09-2	3-Nitroaniline	1500	1000	U
83-32-9	Acenaphthene	590	410	U

6/6/00

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL57

Lab Name: ENVIROSYSTEMS, INC. Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Matrix: (soil/water) SOIL Lab Sample ID: 00041167

Sample wt/vol: 30.0(g/mL) G Lab File ID: H73GB703

Level: (low/med) LOW Date Received: 04/22/00

% Moisture: ~~19~~ 44 (D.N) Decanted: (Y/N)N Date Extracted: 04/26/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/04/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1500 1000	U
100-02-7	4-Nitrophenol	1500 1000	U
132-64-9	Dibenzofuran	590 410	U
121-14-2	2,4-Dinitrotoluene	410	U
84-66-2	Diethylphthalate	410	U
86-73-7	Fluorene	410	U
7005-72-3	4-Chlorophenyl-phenylether	410	U
100-01-6	4-Nitroaniline	1500 1000	U
534-52-1	4,6-Dinitro-2-methylphenol	1500 1000	U
86-30-6	N-Nitrosodiphenylamine (1)	590 410	U
101-55-3	4-Bromophenyl-phenylether	410	U
118-74-1	Hexachlorobenzene	410	U
1912-24-9	Atrazine	410	U
87-86-5	Pentachlorophenol	1500 1000	U
85-01-8	Phenanthrene	590 410	U
120-12-7	Anthracene	410	U
86-74-8	Carbazole	410	U
84-74-2	Di-n-butylphthalate	410	U
206-44-0	Fluoranthene	410	U
129-00-0	Pyrene	410	U
85-68-7	Butylbenzylphthalate	410	U
91-94-1	3,3'-Dichlorobenzidine	410	U
56-55-3	Benzo(a)anthracene	410	U
218-01-9	Chrysene	410	U
117-81-7	bis(2-Ethylhexyl)phthalate	410	U
117-84-0	Di-n-octylphthalate	410	U
205-99-2	Benzo(b)fluoranthene	410	U
207-08-9	Benzo(k)fluoranthene	410	U
50-32-8	Benzo(a)pyrene	410	U
193-39-5	Indeno(1,2,3-cd)pyrene	410	U
53-70-3	Dibenzo(a,h)anthracene	410	U
191-24-2	Benzo(g,h,i)perylene	410	U

(D.N.)
6/6/00

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL58

Lab Name: ENVIROSYSTEMS, INC. Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Matrix: (soil/water) SOIL Lab Sample ID: 00041168

Sample wt/vol: 30.0(g/mL) G Lab File ID: H73GB704

Level: (low/med) LOW Date Received: 04/22/00

% Moisture: 26 Decanted: (Y/N)N Date Extracted: 04/26/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/04/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.0 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	450	U
108-95-2	Phenol	450	U
111-44-4	bis(2-Chloroethyl)Ether	450	U
95-57-8	2-Chlorophenol	450	U
95-48-7	2-Methylphenol	450	U
108-60-1	2,2'-oxybis(1-Chloropropane)	450	U
98-86-2	Acetophenone	450	U
106-44-5	4-Methylphenol	450	U
621-64-7	N-Nitroso-di-n-propylamine	450	U
67-72-1	Hexachloroethane	450	U
98-95-3	Nitrobenzene	450	U
78-59-1	Isophorone	450	U
88-75-5	2-Nitrophenol	450	U
105-67-9	2,4-Dimethylphenol	450	U
120-83-2	2,4-Dichlorophenol	450	U
91-20-3	Naphthalene	450	U
106-47-8	4-Chloroaniline	450	U
111-91-1	bis(2-Chloroethoxy)methane	450	U
87-68-3	Hexachlorobutadiene	450	U
105-60-2	Caprolactam	450	U
59-50-7	4-Chloro-3-methylphenol	450	U
91-57-6	2-Methylnaphthalene	450	U
77-47-4	Hexachlorocyclopentadiene	450	U
88-06-2	2,4,6-Trichlorophenol	450	U
95-95-4	2,4,5-Trichlorophenol	1100	U
92-52-4	1,1'-Biphenyl	450	U
91-58-7	2-Chloronaphthalene	450	U
88-74-4	2-Nitroaniline	1100	U
131-11-3	Dimethylphthalate	450	U
606-20-2	2,6-Dinitrotoluene	450	U
208-96-8	Acenaphthylene	450	U
99-09-2	3-Nitroaniline	1100	U
83-32-9	Acenaphthene	450	U

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL58

Lab Name: ENVIROSYSTEMS, INC. Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Matrix: (soil/water) SOIL Lab Sample ID: 00041168

Sample wt/vol: 30.0(g/mL) G Lab File ID: H73GB704

Level: (low/med) LOW Date Received: 04/22/00

% Moisture: 26 Decanted: (Y/N)N Date Extracted: 04/26/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/04/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.0 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1100	U
100-02-7	4-Nitrophenol	1100	U
132-64-9	Dibenzofuran	450	U
121-14-2	2,4-Dinitrotoluene	450	U
84-66-2	Diethylphthalate	450	U
86-73-7	Fluorene	450	U
7005-72-3	4-Chlorophenyl-phenylether	450	U
100-01-6	4-Nitroaniline	1100	U
534-52-1	4,6-Dinitro-2-methylphenol	1100	U
86-30-6	N-Nitrosodiphenylamine (1)	450	U
101-55-3	4-Bromophenyl-phenylether	450	U
118-74-1	Hexachlorobenzene	450	U
1912-24-9	Atrazine	450	U
87-86-5	Pentachlorophenol	1100	U
85-01-8	Phenanthrene	450	U
120-12-7	Anthracene	450	U
86-74-8	Carbazole	450	U
84-74-2	Di-n-butylphthalate	450	U
206-44-0	Fluoranthene	450	U
129-00-0	Pyrene	450	U
85-68-7	Butylbenzylphthalate	450	U
91-94-1	3,3'-Dichlorobenzidine	450	U
56-55-3	Benzo(a)anthracene	450	U
218-01-9	Chrysene	450	U
117-81-7	bis(2-Ethylhexyl)phthalate	450	U
117-84-0	Di-n-octylphthalate	450	U
205-99-2	Benzo(b)fluoranthene	450	U
207-08-9	Benzo(k)fluoranthene	450	U
50-32-8	Benzo(a)pyrene	450	U
193-39-5	Indeno(1,2,3-cd)pyrene	450	U
53-70-3	Dibenzo(a,h)anthracene	450	U
191-24-2	Benzo(g,h,i)perylene	450	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL60

Lab Name: ENVIROSYSTEMS, INC. Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Matrix: (soil/water) SOIL Lab Sample ID: 00041169

Sample wt/vol: 30.0(g/mL) G Lab File ID: H73GB745

Level: (low/med) LOW Date Received: 04/22/00

% Moisture: 24 Decanted: (Y/N)N Date Extracted: 05/05/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/10/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.0 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	430	U
108-95-2	Phenol	430	U
111-44-4	bis(2-Chloroethyl)Ether	430	U
95-57-8	2-Chlorophenol	430	U
95-48-7	2-Methylphenol	430	U
108-60-1	2,2'-oxybis(1-Chloropropane)	430	U
98-86-2	Acetophenone	430	U
106-44-5	4-Methylphenol	430	U
621-64-7	N-Nitroso-di-n-propylamine	430	U
67-72-1	Hexachloroethane	430	U
98-95-3	Nitrobenzene	430	U
78-59-1	Isophorone	430	U
88-75-5	2-Nitrophenol	430	U
105-67-9	2,4-Dimethylphenol	430	U
120-83-2	2,4-Dichlorophenol	430	U
91-20-3	Naphthalene	430	U
106-47-8	4-Chloroaniline	430	U
111-91-1	bis(2-Chloroethoxy)methane	430	U
87-68-3	Hexachlorobutadiene	430	U
105-60-2	Caprolactam	430	U
59-50-7	4-Chloro-3-methylphenol	430	U
91-57-6	2-Methylnaphthalene	430	U
77-47-4	Hexachlorocyclopentadiene	430	U
88-06-2	2,4,6-Trichlorophenol	430	U
95-95-4	2,4,5-Trichlorophenol	1100	U
92-52-4	1,1'-Biphenyl	430	U
91-58-7	2-Chloronaphthalene	430	U
88-74-4	2-Nitroaniline	1100	U
131-11-3	Dimethylphthalate	430	U
606-20-2	2,6-Dinitrotoluene	430	U
208-96-8	Acenaphthylene	430	U
99-09-2	3-Nitroaniline	1100	U
83-32-9	Acenaphthene	430	U

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL60

Lab Name: ENVIROSYSTEMS, INC. Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Matrix: (soil/water) SOIL Lab Sample ID: 00041169

Sample wt/vol: 30.0(g/mL) G Lab File ID: H73GB745

Level: (low/med) LOW Date Received: 04/22/00

% Moisture: 24 Decanted: (Y/N)N Date Extracted: 05/05/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/10/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.0 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1100	U
100-02-7	4-Nitrophenol	1100	U
132-64-9	Dibenzofuran	430	U
121-14-2	2,4-Dinitrotoluene	430	U
84-66-2	Diethylphthalate	430	U
86-73-7	Fluorene	430	U
7005-72-3	4-Chlorophenyl-phenylether	430	U
100-01-6	4-Nitroaniline	1100	U
534-52-1	4,6-Dinitro-2-methylphenol	1100	U
86-30-6	N-Nitrosodiphenylamine (1)	430	U
101-55-3	4-Bromophenyl-phenylether	430	U
118-74-1	Hexachlorobenzene	430	U
1912-24-9	Atrazine	430	U
87-86-5	Pentachlorophenol	1100	U
85-01-8	Phenanthrene	160	J
120-12-7	Anthracene	430	U
86-74-8	Carbazole	430	U
84-74-2	Di-n-butylphthalate	540	
206-44-0	Fluoranthene	250	J
129-00-0	Pyrene	380	J
85-68-7	Butylbenzylphthalate	430	U
91-94-1	3,3'-Dichlorobenzidine	430	U
56-55-3	Benzo(a)anthracene	150	J
218-01-9	Chrysene	260	J
117-81-7	bis(2-Ethylhexyl)phthalate	430	U
117-84-0	Di-n-octylphthalate	430	U
205-99-2	Benzo(b)fluoranthene	150	J
207-08-9	Benzo(k)fluoranthene	170	J
50-32-8	Benzo(a)pyrene	190	J
193-39-5	Indeno(1,2,3-cd)pyrene	120	J
53-70-3	Dibenzo(a,h)anthracene	430	U
191-24-2	Benzo(g,h,i)perylene	110	J

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL61

Lab Name: ENVIROSYSTEMS, INC. Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Matrix: (soil/water) SOIL Lab Sample ID: 00041170

Sample wt/vol: 30.0(g/mL) G Lab File ID: H73GB706

Level: (low/med) LOW Date Received: 04/22/00

% Moisture: 24 Decanted: (Y/N)N Date Extracted: 04/26/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/04/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.0 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	430	U
108-95-2	Phenol	430	U
111-44-4	bis(2-Chloroethyl)Ether	430	U
95-57-8	2-Chlorophenol	430	U
95-48-7	2-Methylphenol	430	U
108-60-1	2,2'-oxybis(1-Chloropropane)	430	U
98-86-2	Acetophenone	430	U
106-44-5	4-Methylphenol	430	U
621-64-7	N-Nitroso-di-n-propylamine	430	U
67-72-1	Hexachloroethane	430	U
98-95-3	Nitrobenzene	430	U
78-59-1	Isophorone	430	U
88-75-5	2-Nitrophenol	430	U
105-67-9	2,4-Dimethylphenol	430	U
120-83-2	2,4-Dichlorophenol	430	U
91-20-3	Naphthalene	430	U
106-47-8	4-Chloroaniline	430	U
111-91-1	bis(2-Chloroethoxy)methane	430	U
87-68-3	Hexachlorobutadiene	430	U
105-60-2	Caprolactam	430	U
59-50-7	4-Chloro-3-methylphenol	430	U
91-57-6	2-Methylnaphthalene	430	U
77-47-4	Hexachlorocyclopentadiene	430	U
88-06-2	2,4,6-Trichlorophenol	430	U
95-95-4	2,4,5-Trichlorophenol	1100	U
92-52-4	1,1'-Biphenyl	430	U
91-58-7	2-Chloronaphthalene	430	U
88-74-4	2-Nitroaniline	1100	U
131-11-3	Dimethylphthalate	430	U
606-20-2	2,6-Dinitrotoluene	430	U
208-96-8	Acenaphthylene	430	U
99-09-2	3-Nitroaniline	1100	U
83-32-9	Acenaphthene	430	U

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL61

Lab Name: ENVIROSYSTEMS, INC. Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Matrix: (soil/water) SOIL Lab Sample ID: 00041170

Sample wt/vol: 30.0(g/mL) G Lab File ID: H73GB706

Level: (low/med) LOW Date Received: 04/22/00

% Moisture: 24 Decanted: (Y/N)N Date Extracted: 04/26/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/04/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.0 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1100	U
100-02-7	4-Nitrophenol	1100	U
132-64-9	Dibenzofuran	430	U
121-14-2	2,4-Dinitrotoluene	430	U
84-66-2	Diethylphthalate	430	U
86-73-7	Fluorene	430	U
7005-72-3	4-Chlorophenyl-phenylether	430	U
100-01-6	4-Nitroaniline	1100	U
534-52-1	4,6-Dinitro-2-methylphenol	1100	U
86-30-6	N-Nitrosodiphenylamine (1)	430	U
101-55-3	4-Bromophenyl-phenylether	430	U
118-74-1	Hexachlorobenzene	430	U
1912-24-9	Atrazine	430	U
87-86-5	Pentachlorophenol	1100	U
85-01-8	Phenanthrene	430	U
120-12-7	Anthracene	430	U
86-74-8	Carbazole	430	U
84-74-2	Di-n-butylphthalate	430	U
206-44-0	Fluoranthene	430	U
129-00-0	Pyrene	430	U
85-68-7	Butylbenzylphthalate	430	U
91-94-1	3,3'-Dichlorobenzidine	430	U
56-55-3	Benzo(a)anthracene	430	U
218-01-9	Chrysene	430	U
117-81-7	bis(2-Ethylhexyl)phthalate	430	U
117-84-0	Di-n-octylphthalate	430	U
205-99-2	Benzo(b)fluoranthene	430	U
207-08-9	Benzo(k)fluoranthene	430	U
50-32-8	Benzo(a)pyrene	430	U
193-39-5	Indeno(1,2,3-cd)pyrene	430	U
53-70-3	Dibenzo(a,h)anthracene	430	U
191-24-2	Benzo(g,h,i)perylene	430	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL62

Lab Name: ENVIROSYSTEMS, INC. Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Matrix: (soil/water) SOIL Lab Sample ID: 00041171

Sample wt/vol: 30.0(g/mL) G Lab File ID: H73GB746

Level: (low/med) LOW Date Received: 04/22/00

% Moisture: 18 Decanted: (Y/N)N Date Extracted: 05/05/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/10/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.0 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	400	U
108-95-2	Phenol	400	U
111-44-4	bis(2-Chloroethyl)Ether	400	U
95-57-8	2-Chlorophenol	400	U
95-48-7	2-Methylphenol	400	U
108-60-1	2,2'-oxybis(1-Chloropropane)	400	U
98-86-2	Acetophenone	400	U
106-44-5	4-Methylphenol	400	U
621-64-7	N-Nitroso-di-n-propylamine	400	U
67-72-1	Hexachloroethane	400	U
98-95-3	Nitrobenzene	400	U
78-59-1	Isophorone	400	U
88-75-5	2-Nitrophenol	400	U
105-67-9	2,4-Dimethylphenol	400	U
120-83-2	2,4-Dichlorophenol	400	U
91-20-3	Naphthalene	400	U
106-47-8	4-Chloroaniline	400	U
111-91-1	bis(2-Chloroethoxy)methane	400	U
87-68-3	Hexachlorobutadiene	400	U
105-60-2	Caprolactam	400	U
59-50-7	4-Chloro-3-methylphenol	400	U
91-57-6	2-Methylnaphthalene	400	U
77-47-4	Hexachlorocyclopentadiene	400	U
88-06-2	2,4,6-Trichlorophenol	400	U
95-95-4	2,4,5-Trichlorophenol	1000	U
92-52-4	1,1'-Biphenyl	400	U
91-58-7	2-Chloronaphthalene	400	U
88-74-4	2-Nitroaniline	1000	U
131-11-3	Dimethylphthalate	400	U
606-20-2	2,6-Dinitrotoluene	400	U
208-96-8	Acenaphthylene	400	U
99-09-2	3-Nitroaniline	1000	U
83-32-9	Acenaphthene	400	U

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL62

Lab Name: ENVIROSYSTEMS, INC. Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Matrix: (soil/water) SOIL Lab Sample ID: 00041171

Sample wt/vol: 30.0(g/mL) G Lab File ID: H73GB746

Level: (low/med) LOW Date Received: 04/22/00

% Moisture: 18 Decanted: (Y/N)N Date Extracted: 05/05/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/10/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.0 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1000	U
100-02-7	4-Nitrophenol	1000	U
132-64-9	Dibenzofuran	400	U
121-14-2	2,4-Dinitrotoluene	400	U
84-66-2	Diethylphthalate	400	U
86-73-7	Fluorene	400	U
7005-72-3	4-Chlorophenyl-phenylether	400	U
100-01-6	4-Nitroaniline	1000	U
534-52-1	4,6-Dinitro-2-methylphenol	1000	U
86-30-6	N-Nitrosodiphenylamine (1)	400	U
101-55-3	4-Bromophenyl-phenylether	400	U
118-74-1	Hexachlorobenzene	400	U
1912-24-9	Atrazine	400	U
87-86-5	Pentachlorophenol	1000	U
85-01-8	Phenanthrene	400	U
120-12-7	Anthracene	400	U
86-74-8	Carbazole	400	U
84-74-2	Di-n-butylphthalate	92	J
206-44-0	Fluoranthene	400	U
129-00-0	Pyrene	400	U
85-68-7	Butylbenzylphthalate	400	U
91-94-1	3,3'-Dichlorobenzidine	400	U
56-55-3	Benzo(a)anthracene	400	U
218-01-9	Chrysene	400	U
117-81-7	bis(2-Ethylhexyl)phthalate	400	U
117-84-0	Di-n-octylphthalate	400	U
205-99-2	Benzo(b)fluoranthene	400	U
207-08-9	Benzo(k)fluoranthene	400	U
50-32-8	Benzo(a)pyrene	400	U
193-39-5	Indeno(1,2,3-cd)pyrene	400	U
53-70-3	Dibenzo(a,h)anthracene	400	U
191-24-2	Benzo(g,h,i)perylene	400	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL63

Lab Name: ENVIROSYSTEMS, INC. Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Matrix: (soil/water) SOIL Lab Sample ID: 00041172

Sample wt/vol: 30.0(g/mL) G Lab File ID: H73GB710

Level: (low/med) LOW Date Received: 04/22/00

% Moisture: 18 Decanted: (Y/N)N Date Extracted: 04/26/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/04/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.0 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	400	U
108-95-2	Phenol	400	U
111-44-4	bis(2-Chloroethyl)Ether	400	U
95-57-8	2-Chlorophenol	400	U
95-48-7	2-Methylphenol	400	U
108-60-1	2,2'-oxybis(1-Chloropropane)	400	U
98-86-2	Acetophenone	400	U
106-44-5	4-Methylphenol	400	U
621-64-7	N-Nitroso-di-n-propylamine	400	U
67-72-1	Hexachloroethane	400	U
98-95-3	Nitrobenzene	400	U
78-59-1	Isophorone	400	U
88-75-5	2-Nitrophenol	400	U
105-67-9	2,4-Dimethylphenol	400	U
120-83-2	2,4-Dichlorophenol	400	U
91-20-3	Naphthalene	400	U
106-47-8	4-Chloroaniline	400	U
111-91-1	bis(2-Chloroethoxy)methane	400	U
87-68-3	Hexachlorobutadiene	400	U
105-60-2	Caprolactam	400	U
59-50-7	4-Chloro-3-methylphenol	400	U
91-57-6	2-Methylnaphthalene	400	U
77-47-4	Hexachlorocyclopentadiene	400	U
88-06-2	2,4,6-Trichlorophenol	400	U
95-95-4	2,4,5-Trichlorophenol	1000	U
92-52-4	1,1'-Biphenyl	400	U
91-58-7	2-Chloronaphthalene	400	U
88-74-4	2-Nitroaniline	1000	U
131-11-3	Dimethylphthalate	400	U
606-20-2	2,6-Dinitrotoluene	400	U
208-96-8	Acenaphthylene	400	U
99-09-2	3-Nitroaniline	1000	U
83-32-9	Acenaphthene	400	U

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL63

Lab Name: ENVIROSYSTEMS, INC. Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Matrix: (soil/water) SOIL Lab Sample ID: 00041172

Sample wt/vol: 30.0(g/mL) G Lab File ID: H73GB710

Level: (low/med) LOW Date Received: 04/22/00

% Moisture: 18 Decanted: (Y/N)N Date Extracted: 04/26/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/04/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.0 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1000	U
100-02-7	4-Nitrophenol	1000	U
132-64-9	Dibenzofuran	400	U
121-14-2	2,4-Dinitrotoluene	400	U
84-66-2	Diethylphthalate	400	U
86-73-7	Fluorene	400	U
7005-72-3	4-Chlorophenyl-phenylether	400	U
100-01-6	4-Nitroaniline	1000	U
534-52-1	4,6-Dinitro-2-methylphenol	1000	U
86-30-6	N-Nitrosodiphenylamine (1)	400	U
101-55-3	4-Bromophenyl-phenylether	400	U
118-74-1	Hexachlorobenzene	400	U
1912-24-9	Atrazine	400	U
87-86-5	Pentachlorophenol	1000	U
85-01-8	Phenanthrene	400	U
120-12-7	Anthracene	400	U
86-74-8	Carbazole	400	U
84-74-2	Di-n-butylphthalate	400	U
206-44-0	Fluoranthene	400	U
129-00-0	Pyrene	400	U
85-68-7	Butylbenzylphthalate	400	U
91-94-1	3,3'-Dichlorobenzidine	400	U
56-55-3	Benzo(a)anthracene	400	U
218-01-9	Chrysene	400	U
117-81-7	bis(2-Ethylhexyl)phthalate	130	J
117-84-0	Di-n-octylphthalate	400	U
205-99-2	Benzo(b)fluoranthene	400	U
207-08-9	Benzo(k)fluoranthene	400	U
50-32-8	Benzo(a)pyrene	400	U
193-39-5	Indeno(1,2,3-cd)pyrene	400	U
53-70-3	Dibenzo(a,h)anthracene	400	U
191-24-2	Benzo(g,h,i)perylene	400	U

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL64

Lab Name: ENVIROSYSTEMS, INC. Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Matrix: (soil/water) SOIL Lab Sample ID: 00041173

Sample wt/vol: 30.0(g/mL) G Lab File ID: H73GB711

Level: (low/med) LOW Date Received: 04/22/00

% Moisture: 31 Decanted: (Y/N)N Date Extracted: 04/26/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/05/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.0 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	480	U
108-95-2	Phenol	480	U
111-44-4	bis(2-Chloroethyl)Ether	480	U
95-57-8	2-Chlorophenol	480	U
95-48-7	2-Methylphenol	480	U
108-60-1	2,2'-oxybis(1-Chloropropane)	480	U
98-86-2	Acetophenone	480	U
106-44-5	4-Methylphenol	480	U
621-64-7	N-Nitroso-di-n-propylamine	480	U
67-72-1	Hexachloroethane	480	U
98-95-3	Nitrobenzene	480	U
78-59-1	Isophorone	480	U
88-75-5	2-Nitrophenol	480	U
105-67-9	2,4-Dimethylphenol	480	U
120-83-2	2,4-Dichlorophenol	480	U
91-20-3	Naphthalene	480	U
106-47-8	4-Chloroaniline	480	U
111-91-1	bis(2-Chloroethoxy)methane	480	U
87-68-3	Hexachlorobutadiene	480	U
105-60-2	Caprolactam	480	U
59-50-7	4-Chloro-3-methylphenol	480	U
91-57-6	2-Methylnaphthalene	480	U
77-47-4	Hexachlorocyclopentadiene	480	U
88-06-2	2,4,6-Trichlorophenol	480	U
95-95-4	2,4,5-Trichlorophenol	1200	U
92-52-4	1,1'-Biphenyl	480	U
91-58-7	2-Chloronaphthalene	480	U
88-74-4	2-Nitroaniline	1200	U
131-11-3	Dimethylphthalate	480	U
606-20-2	2,6-Dinitrotoluene	480	U
208-96-8	Acenaphthylene	480	U
99-09-2	3-Nitroaniline	1200	U
83-32-9	Acenaphthene	480	U

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL64

Lab Name: ENVIROSYSTEMS, INC. Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Matrix: (soil/water) SOIL Lab Sample ID: 00041173

Sample wt/vol: 30.0(g/mL) G Lab File ID: H73GB711

Level: (low/med) LOW Date Received: 04/22/00

% Moisture: 31 Decanted: (Y/N)N Date Extracted: 04/26/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/05/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.0 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1200	U
100-02-7	4-Nitrophenol	1200	U
132-64-9	Dibenzofuran	480	U
121-14-2	2,4-Dinitrotoluene	480	U
84-66-2	Diethylphthalate	480	U
86-73-7	Fluorene	480	U
7005-72-3	4-Chlorophenyl-phenylether	480	U
100-01-6	4-Nitroaniline	1200	U
534-52-1	4,6-Dinitro-2-methylphenol	1200	U
86-30-6	N-Nitrosodiphenylamine (1)	480	U
101-55-3	4-Bromophenyl-phenylether	480	U
118-74-1	Hexachlorobenzene	480	U
1912-24-9	Atrazine	480	U
87-86-5	Pentachlorophenol	1200	U
85-01-8	Phenanthrene	480	U
120-12-7	Anthracene	480	U
86-74-8	Carbazole	480	U
84-74-2	Di-n-butylphthalate	480	U
206-44-0	Fluoranthene	480	U
129-00-0	Pyrene	480	U
85-68-7	Butylbenzylphthalate	480	U
91-94-1	3,3'-Dichlorobenzidine	480	U
56-55-3	Benzo(a)anthracene	480	U
218-01-9	Chrysene	480	U
117-81-7	bis(2-Ethylhexyl)phthalate	480	U
117-84-0	Di-n-octylphthalate	480	U
205-99-2	Benzo(b)fluoranthene	480	U
207-08-9	Benzo(k)fluoranthene	480	U
50-32-8	Benzo(a)pyrene	480	U
193-39-5	Indeno(1,2,3-cd)pyrene	480	U
53-70-3	Dibenzo(a,h)anthracene	480	U
191-24-2	Benzo(g,h,i)perylene	480	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL65

Lab Name: ENVIROSYSTEMS, INC. Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Matrix: (soil/water) SOIL Lab Sample ID: 00041174

Sample wt/vol: 30.0(g/mL) G Lab File ID: H73GB712

Level: (low/med) LOW Date Received: 04/22/00

% Moisture: 12 Decanted: (Y/N)N Date Extracted: 04/26/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/05/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.0 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	380	U
108-95-2	Phenol	380	U
111-44-4	bis(2-Chloroethyl)Ether	380	U
95-57-8	2-Chlorophenol	380	U
95-48-7	2-Methylphenol	380	U
108-60-1	2,2'-oxybis(1-Chloropropane)	380	U
98-86-2	Acetophenone	380	U
106-44-5	4-Methylphenol	380	U
621-64-7	N-Nitroso-di-n-propylamine	380	U
67-72-1	Hexachloroethane	380	U
98-95-3	Nitrobenzene	380	U
78-59-1	Isophorone	380	U
88-75-5	2-Nitrophenol	380	U
105-67-9	2,4-Dimethylphenol	380	U
120-83-2	2,4-Dichlorophenol	380	U
91-20-3	Naphthalene	380	U
106-47-8	4-Chloroaniline	380	U
111-91-1	bis(2-Chloroethoxy)methane	380	U
87-68-3	Hexachlorobutadiene	380	U
105-60-2	Caprolactam	380	U
59-50-7	4-Chloro-3-methylphenol	380	U
91-57-6	2-Methylnaphthalene	380	U
77-47-4	Hexachlorocyclopentadiene	380	U
88-06-2	2,4,6-Trichlorophenol	380	U
95-95-4	2,4,5-Trichlorophenol	940	U
92-52-4	1,1'-Biphenyl	380	U
91-58-7	2-Chloronaphthalene	380	U
88-74-4	2-Nitroaniline	940	U
131-11-3	Dimethylphthalate	380	U
606-20-2	2,6-Dinitrotoluene	380	U
208-96-8	Acenaphthylene	380	U
99-09-2	3-Nitroaniline	940	U
83-32-9	Acenaphthene	380	U

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL65

Lab Name: ENVIROSYSTEMS, INC. Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Matrix: (soil/water) SOIL Lab Sample ID: 00041174

Sample wt/vol: 30.0(g/mL) G Lab File ID: H73GB712

Level: (low/med) LOW Date Received: 04/22/00

% Moisture: 12 Decanted: (Y/N)N Date Extracted: 04/26/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/05/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.0 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	940	U
100-02-7	4-Nitrophenol	940	U
132-64-9	Dibenzofuran	380	U
121-14-2	2,4-Dinitrotoluene	380	U
84-66-2	Diethylphthalate	380	U
86-73-7	Fluorene	380	U
7005-72-3	4-Chlorophenyl-phenylether	380	U
100-01-6	4-Nitroaniline	940	U
534-52-1	4,6-Dinitro-2-methylphenol	940	U
86-30-6	N-Nitrosodiphenylamine (1)	380	U
101-55-3	4-Bromophenyl-phenylether	380	U
118-74-1	Hexachlorobenzene	380	U
1912-24-9	Atrazine	380	U
87-86-5	Pentachlorophenol	940	U
85-01-8	Phenanthrene	380	U
120-12-7	Anthracene	380	U
86-74-8	Carbazole	380	U
84-74-2	Di-n-butylphthalate	380	U
206-44-0	Fluoranthene	380	U
129-00-0	Pyrene	380	U
85-68-7	Butylbenzylphthalate	380	U
91-94-1	3,3'-Dichlorobenzidine	380	U
56-55-3	Benzo(a)anthracene	380	U
218-01-9	Chrysene	380	U
117-81-7	bis(2-Ethylhexyl)phthalate	380	U
117-84-0	Di-n-octylphthalate	380	U
205-99-2	Benzo(b)fluoranthene	380	U
207-08-9	Benzo(k)fluoranthene	380	U
50-32-8	Benzo(a)pyrene	380	U
193-39-5	Indeno(1,2,3-cd)pyrene	380	U
53-70-3	Dibenzo(a,h)anthracene	380	U
191-24-2	Benzo(g,h,i)perylene	380	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL66

Lab Name: ENVIROSYSTEMS, INC. Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Matrix: (soil/water) SOIL Lab Sample ID: 00041175

Sample wt/vol: 30.0(g/mL) G Lab File ID: H73GB713

Level: (low/med) LOW Date Received: 04/22/00

% Moisture: 18 Decanted: (Y/N)N Date Extracted: 04/26/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/05/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.0 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	400	U
108-95-2	Phenol	400	U
111-44-4	bis(2-Chloroethyl)Ether	400	U
95-57-8	2-Chlorophenol	400	U
95-48-7	2-Methylphenol	400	U
108-60-1	2,2'-oxybis(1-Chloropropane)	400	U
98-86-2	Acetophenone	400	U
106-44-5	4-Methylphenol	400	U
621-64-7	N-Nitroso-di-n-propylamine	400	U
67-72-1	Hexachloroethane	400	U
98-95-3	Nitrobenzene	400	U
78-59-1	Isophorone	400	U
88-75-5	2-Nitrophenol	400	U
105-67-9	2,4-Dimethylphenol	400	U
120-83-2	2,4-Dichlorophenol	400	U
91-20-3	Naphthalene	400	U
106-47-8	4-Chloroaniline	400	U
111-91-1	bis(2-Chloroethoxy)methane	400	U
87-68-3	Hexachlorobutadiene	400	U
105-60-2	Caprolactam	400	U
59-50-7	4-Chloro-3-methylphenol	400	U
91-57-6	2-Methylnaphthalene	400	U
77-47-4	Hexachlorocyclopentadiene	400	U
88-06-2	2,4,6-Trichlorophenol	400	U
95-95-4	2,4,5-Trichlorophenol	1000	U
92-52-4	1,1'-Biphenyl	400	U
91-58-7	2-Chloronaphthalene	400	U
88-74-4	2-Nitroaniline	1000	U
131-11-3	Dimethylphthalate	400	U
606-20-2	2,6-Dinitrotoluene	400	U
208-96-8	Acenaphthylene	400	U
99-09-2	3-Nitroaniline	1000	U
83-32-9	Acenaphthene	400	U

1D

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CSL66

Lab Name: ENVIROSYSTEMS, INC. Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Matrix: (soil/water) SOIL Lab Sample ID: 00041175

Sample wt/vol: 30.0(g/mL) G Lab File ID: H73GB713

Level: (low/med) LOW Date Received: 04/22/00

% Moisture: 18 Decanted: (Y/N)N Date Extracted: 04/26/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/05/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.0 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1000	U
100-02-7	4-Nitrophenol	1000	U
132-64-9	Dibenzofuran	400	U
121-14-2	2,4-Dinitrotoluene	400	U
84-66-2	Diethylphthalate	400	U
86-73-7	Fluorene	400	U
7005-72-3	4-Chlorophenyl-phenylether	400	U
100-01-6	4-Nitroaniline	1000	U
534-52-1	4,6-Dinitro-2-methylphenol	1000	U
86-30-6	N-Nitrosodiphenylamine (1)	400	U
101-55-3	4-Bromophenyl-phenylether	400	U
118-74-1	Hexachlorobenzene	400	U
1912-24-9	Atrazine	400	U
87-86-5	Pentachlorophenol	1000	U
85-01-8	Phenanthrene	400	U
120-12-7	Anthracene	400	U
86-74-8	Carbazole	400	U
84-74-2	Di-n-butylphthalate	400	U
206-44-0	Fluoranthene	400	U
129-00-0	Pyrene	400	U
85-68-7	Butylbenzylphthalate	400	U
91-94-1	3,3'-Dichlorobenzidine	400	U
56-55-3	Benzo(a)anthracene	400	U
218-01-9	Chrysene	400	U
117-81-7	bis(2-Ethylhexyl)phthalate	400	U
117-84-0	Di-n-octylphthalate	400	U
205-99-2	Benzo(b)fluoranthene	400	U
207-08-9	Benzo(k)fluoranthene	400	U
50-32-8	Benzo(a)pyrene	400	U
193-39-5	Indeno(1,2,3-cd)pyrene	400	U
53-70-3	Dibenzo(a,h)anthracene	400	U
191-24-2	Benzo(g,h,i)perylene	400	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL67

Lab Name: ENVIROSYSTEMS, INC. Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Matrix: (soil/water) SOIL Lab Sample ID: 00041176

Sample wt/vol: 30.0(g/mL) G Lab File ID: H73GB747

Level: (low/med) LOW Date Received: 04/22/00

% Moisture: 19 Decanted: (Y/N)N Date Extracted: 05/05/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/10/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.0 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	410	U
108-95-2	Phenol	410	U
111-44-4	bis(2-Chloroethyl)Ether	410	U
95-57-8	2-Chlorophenol	410	U
95-48-7	2-Methylphenol	410	U
108-60-1	2,2'-oxybis(1-Chloropropane)	410	U
98-86-2	Acetophenone	90	J
106-44-5	4-Methylphenol	410	U
621-64-7	N-Nitroso-di-n-propylamine	140	J
67-72-1	Hexachloroethane	410	U
98-95-3	Nitrobenzene	410	U
78-59-1	Isophorone	410	U
88-75-5	2-Nitrophenol	410	U
105-67-9	2,4-Dimethylphenol	410	U
120-83-2	2,4-Dichlorophenol	410	U
91-20-3	Naphthalene	550	
106-47-8	4-Chloroaniline	410	U
111-91-1	bis(2-Chloroethoxy)methane	410	U
87-68-3	Hexachlorobutadiene	410	U
105-60-2	Caprolactam	410	U
59-50-7	4-Chloro-3-methylphenol	410	U
91-57-6	2-Methylnaphthalene	650	
77-47-4	Hexachlorocyclopentadiene	410	U
88-06-2	2,4,6-Trichlorophenol	410	U
95-95-4	2,4,5-Trichlorophenol	1000	U
92-52-4	1,1'-Biphenyl	410	U
91-58-7	2-Chloronaphthalene	410	U
88-74-4	2-Nitroaniline	1000	U
131-11-3	Dimethylphthalate	410	U
606-20-2	2,6-Dinitrotoluene	410	U
208-96-8	Acenaphthylene	410	U
99-09-2	3-Nitroaniline	1000	U
83-32-9	Acenaphthene	410	U

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL67

Lab Name: ENVIROSYSTEMS, INC. Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Matrix: (soil/water) SOIL Lab Sample ID: 00041176

Sample wt/vol: 30.0(g/mL) G Lab File ID: H73GB747

Level: (low/med) LOW Date Received: 04/22/00

% Moisture: 19 Decanted: (Y/N)N Date Extracted: 05/05/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/10/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.0 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1000	U
100-02-7	4-Nitrophenol	1000	U
132-64-9	Dibenzofuran	230	J
121-14-2	2,4-Dinitrotoluene	410	U
84-66-2	Diethylphthalate	410	U
86-73-7	Fluorene	410	U
7005-72-3	4-Chlorophenyl-phenylether	410	U
100-01-6	4-Nitroaniline	1000	U
534-52-1	4,6-Dinitro-2-methylphenol	1000	U
86-30-6	N-Nitrosodiphenylamine_(1)	92	J
101-55-3	4-Bromophenyl-phenylether	410	U
118-74-1	Hexachlorobenzene	410	U
1912-24-9	Atrazine	410	U
87-86-5	Pentachlorophenol	1000	U
85-01-8	Phenanthrene	430	
120-12-7	Anthracene	410	U
86-74-8	Carbazole	410	U
84-74-2	Di-n-butylphthalate	110	J
206-44-0	Fluoranthene	410	U
129-00-0	Pyrene	90	J
85-68-7	Butylbenzylphthalate	410	U
91-94-1	3,3'-Dichlorobenzidine	410	U
56-55-3	Benzo(a)anthracene	410	U
218-01-9	Chrysene	120	J
117-81-7	bis(2-Ethylhexyl)phthalate	410	U
117-84-0	Di-n-octylphthalate	410	U
205-99-2	Benzo(b)fluoranthene	96	J
207-08-9	Benzo(k)fluoranthene	410	U
50-32-8	Benzo(a)pyrene	160	J
193-39-5	Indeno(1,2,3-cd)pyrene	88	J
53-70-3	Dibenzo(a,h)anthracene	410	U
191-24-2	Benzo(g,h,i)perylene	94	J

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL68

Lab Name: ENVIROSYSTEMS, INC. Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Matrix: (soil/water) SOIL Lab Sample ID: 00041177

Sample wt/vol: 30.0(g/mL) G Lab File ID: H73GB749

Level: (low/med) LOW Date Received: 04/22/00

% Moisture: 18 Decanted: (Y/N)N Date Extracted: 04/26/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/10/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 4.0 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	400	U
108-95-2	Phenol	400	U
111-44-4	bis(2-Chloroethyl)Ether	400	U
95-57-8	2-Chlorophenol	400	U
95-48-7	2-Methylphenol	400	U
108-60-1	2,2'-oxybis(1-Chloropropane)	400	U
98-86-2	Acetophenone	400	U
106-44-5	4-Methylphenol	400	U
621-64-7	N-Nitroso-di-n-propylamine	400	U
67-72-1	Hexachloroethane	400	U
98-95-3	Nitrobenzene	400	U
78-59-1	Isophorone	400	U
88-75-5	2-Nitrophenol	400	U
105-67-9	2,4-Dimethylphenol	400	U
120-83-2	2,4-Dichlorophenol	400	U
91-20-3	Naphthalene	110	J
106-47-8	4-Chloroaniline	400	U
111-91-1	bis(2-Chloroethoxy)methane	400	U
87-68-3	Hexachlorobutadiene	400	U
105-60-2	Caprolactam	400	U
59-50-7	4-Chloro-3-methylphenol	400	U
91-57-6	2-Methylnaphthalene	120	J
77-47-4	Hexachlorocyclopentadiene	400	U
88-06-2	2,4,6-Trichlorophenol	400	U
95-95-4	2,4,5-Trichlorophenol	1000	U
92-52-4	1,1'-Biphenyl	400	U
91-58-7	2-Chloronaphthalene	400	U
88-74-4	2-Nitroaniline	1000	U
131-11-3	Dimethylphthalate	400	U
606-20-2	2,6-Dinitrotoluene	400	U
208-96-8	Acenaphthylene	400	U
99-09-2	3-Nitroaniline	1000	U
83-32-9	Acenaphthene	400	U

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL68

Lab Name: ENVIROSYSTEMS, INC. Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Matrix: (soil/water) SOIL Lab Sample ID: 00041177

Sample wt/vol: 30.0(g/mL) G Lab File ID: H73GB749

Level: (low/med) LOW Date Received: 04/22/00

% Moisture: 18 Decanted: (Y/N)N Date Extracted: 04/26/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/10/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 4.0 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1000	U
100-02-7	4-Nitrophenol	1000	U
132-64-9	Dibenzofuran	400	U
121-14-2	2,4-Dinitrotoluene	400	U
84-66-2	Diethylphthalate	400	U
86-73-7	Fluorene	400	U
7005-72-3	4-Chlorophenyl-phenylether	400	U
100-01-6	4-Nitroaniline	1000	U
534-52-1	4,6-Dinitro-2-methylphenol	1000	U
86-30-6	N-Nitrosodiphenylamine (1)	400	U
101-55-3	4-Bromophenyl-phenylether	400	U
118-74-1	Hexachlorobenzene	400	U
1912-24-9	Atrazine	400	U
87-86-5	Pentachlorophenol	1000	U
85-01-8	Phenanthrene	120	J
120-12-7	Anthracene	400	U
86-74-8	Carbazole	400	U
84-74-2	Di-n-butylphthalate	400	U
206-44-0	Fluoranthene	130	J
129-00-0	Pyrene	120	J
85-68-7	Butylbenzylphthalate	400	U
91-94-1	3,3'-Dichlorobenzidine	400	U
56-55-3	Benzo(a)anthracene	400	U
218-01-9	Chrysene	120	J
117-81-7	bis(2-Ethylhexyl)phthalate	400	U
117-84-0	Di-n-octylphthalate	400	U
205-99-2	Benzo(b)fluoranthene	120	J
207-08-9	Benzo(k)fluoranthene	100	J
50-32-8	Benzo(a)pyrene	90	J
193-39-5	Indeno(1,2,3-cd)pyrene	100	J
53-70-3	Dibenzo(a,h)anthracene	400	U
191-24-2	Benzo(g,h,i)perylene	94	J

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL69

Lab Name: ENVIROSYSTEMS, INC. Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Matrix: (soil/water) SOIL Lab Sample ID: 00041178

Sample wt/vol: 30.0(g/mL) G Lab File ID: H73GB750

Level: (low/med) LOW Date Received: 04/22/00

% Moisture: ~~20~~ 29 (D.N.) Decanted: (Y/N)N Date Extracted: 04/26/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/10/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	UG/KG	Q
100-52-7	Benzaldehyde	460	410	U
108-95-2	Phenol		410	U
111-44-4	bis(2-Chloroethyl)Ether		410	U
95-57-8	2-Chlorophenol		410	U
95-48-7	2-Methylphenol		410	U
108-60-1	2,2'-oxybis(1-Chloropropane)		410	U
98-86-2	Acetophenone		410	U
106-44-5	4-Methylphenol		410	U
621-64-7	N-Nitroso-di-n-propylamine		410	U
67-72-1	Hexachloroethane		410	U
98-95-3	Nitrobenzene		410	U
78-59-1	Isophorone		410	U
88-75-5	2-Nitrophenol		410	U
105-67-9	2,4-Dimethylphenol		410	U
120-83-2	2,4-Dichlorophenol		410	U
91-20-3	Naphthalene		410	U
106-47-8	4-Chloroaniline		410	U
111-91-1	bis(2-Chloroethoxy)methane		410	U
87-68-3	Hexachlorobutadiene		410	U
105-60-2	Caprolactam		410	U
59-50-7	4-Chloro-3-methylphenol		410	U
91-57-6	2-Methylnaphthalene		410	U
77-47-4	Hexachlorocyclopentadiene		410	U
88-06-2	2,4,6-Trichlorophenol		410	U
95-95-4	2,4,5-Trichlorophenol	1200	1000	U
92-52-4	1,1'-Biphenyl	460	410	U
91-58-7	2-Chloronaphthalene		410	U
88-74-4	2-Nitroaniline	1200	1000	U
131-11-3	Dimethylphthalate	460	410	U
606-20-2	2,6-Dinitrotoluene		410	U
208-96-8	Acenaphthylene		410	U
99-09-2	3-Nitroaniline	1200	1000	U
83-32-9	Acenaphthene	460	410	U

(D.N.) 6/6/00

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL69

Lab Name: ENVIROSYSTEMS, INC. Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Matrix: (soil/water) SOIL Lab Sample ID: 00041178

Sample wt/vol: 30.0(g/mL) G Lab File ID: H73GB750

Level: (low/med) LOW Date Received: 04/22/00

% Moisture: ~~20~~ 29 (D.N.) Decanted: (Y/N)N Date Extracted: 04/26/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/10/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	UG/KG	Q
51-28-5	2,4-Dinitrophenol	1200	1000	U
100-02-7	4-Nitrophenol	1200	1000	U
132-64-9	Dibenzofuran	460	410	U
121-14-2	2,4-Dinitrotoluene		410	U
84-66-2	Diethylphthalate		410	U
86-73-7	Fluorene		410	U
7005-72-3	4-Chlorophenyl-phenylether		410	U
100-01-6	4-Nitroaniline	1200	1000	U
534-52-1	4,6-Dinitro-2-methylphenol	1200	1000	U
86-30-6	N-Nitrosodiphenylamine (1)	460	410	U
101-55-3	4-Bromophenyl-phenylether		410	U
118-74-1	Hexachlorobenzene		410	U
1912-24-9	Atrazine		410	U
87-86-5	Pentachlorophenol	1200	1000	U
85-01-8	Phenanthrene	460	410	U
120-12-7	Anthracene		410	U
86-74-8	Carbazole		410	U
84-74-2	Di-n-butylphthalate		410	U
206-44-0	Fluoranthene		410	U
129-00-0	Pyrene		410	U
85-68-7	Butylbenzylphthalate		410	U
91-94-1	3,3'-Dichlorobenzidine		410	U
56-55-3	Benzo(a)anthracene		410	U
218-01-9	Chrysene		410	U
117-81-7	bis(2-Ethylhexyl)phthalate		410	U
117-84-0	Di-n-octylphthalate		410	U
205-99-2	Benzo(b)fluoranthene		410	U
207-08-9	Benzo(k)fluoranthene		410	U
50-32-8	Benzo(a)pyrene		410	U
193-39-5	Indeno(1,2,3-cd)pyrene		410	U
53-70-3	Dibenzo(a,h)anthracene		410	U
191-24-2	Benzo(g,h,i)perylene	✓	410	U

(D.N.) 6/6/00

1E
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL45

Lab Name: ENVIROSYSTEMS Contract: 68W99023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL45

Matrix: (soil/water) WATER Lab Sample ID: 00041153

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

% Moisture: decanted: (Y/N) Date Received: 04/22/00

Extraction: (SepF/Cont/Sonc) CONT Date Extracted: 04/24/00

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 05/09/00

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

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

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
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11100-14-4	Aroclor-1268	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL46

Lab Name: ENVIROSYSTEMS Contract: 68W99023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL45

Matrix: (soil/water) WATER Lab Sample ID: 00041154

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

% Moisture: decanted: (Y/N) Date Received: 04/22/00

Extraction: (SepF/Cont/Sonc) CONT Date Extracted: 04/24/00

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 05/09/00

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

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

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
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11100-14-4	Aroclor-1268	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

1E
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL47

Lab Name: ENVIROSYSTEMS Contract: 68W99023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL45

Matrix: (soil/water) WATER Lab Sample ID: 00041155

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

% Moisture: decanted: (Y/N) Date Received: 04/22/00

Extraction: (SepF/Cont/Sonc) CONT Date Extracted: 04/24/00

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 05/09/00

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

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

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
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11100-14-4	Aroclor-1268	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL48

Lab Name: ENVIROSYSTEMS Contract: 68W99023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL45

Matrix: (soil/water) WATER Lab Sample ID: 00041156

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

% Moisture: decanted: (Y/N) Date Received: 04/22/00

Extraction: (SepF/Cont/Sonc) CONT Date Extracted: 04/24/00

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 05/09/00

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

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

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
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11100-14-4	Aroclor-1268	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

1E
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL49

Lab Name: ENVIROSYSTEMS Contract: 68W99023

Lab Code: ENVSYS - Case No.: 27981 SAS No.: SDG No.: CSL45

Matrix: (soil/water) WATER Lab Sample ID: 00041157

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

% Moisture: decanted: (Y/N) Date Received: 04/22/00

Extraction: (SepF/Cont/Sonc) CONT Date Extracted: 04/24/00

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 05/09/00

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

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

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
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11100-14-4	Aroclor-1268	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL50

Lab Name: ENVIROSYSTEMS Contract: 68W99023

Lab Code: ENVSYS - Case No.: 27981 SAS No.: SDG No.: CSL45

Matrix: (soil/water) WATER Lab Sample ID: 00041158

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

% Moisture: decanted: (Y/N) Date Received: 04/22/00

Extraction: (SepF/Cont/Sonc) CONT Date Extracted: 04/24/00

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 05/09/00

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

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

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
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11100-14-4	Aroclor-1268	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL51

Lab Name: ENVIROSYSTEMS Contract: 68W99023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL45

Matrix: (soil/water) WATER Lab Sample ID: 00041159

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

% Moisture: decanted: (Y/N) Date Received: 04/22/00

Extraction: (SepF/Cont/Sonc) CONT Date Extracted: 04/24/00

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 05/09/00

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

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

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
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11100-14-4	Aroclor-1268	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL52

Lab Name: ENVIROSYSTEMS Contract: 68W99023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL45

Matrix: (soil/water) WATER Lab Sample ID: 00041160

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

% Moisture: decanted: (Y/N) Date Received: 04/22/00

Extraction: (SepF/Cont/Sonc) CONT Date Extracted: 04/24/00

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 05/09/00

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

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

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
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11100-14-4	Aroclor-1268	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL53

Lab Name: ENVIROSYSTEMS Contract: 68W99023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL45

Matrix: (soil/water) WATER Lab Sample ID: 00041161

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

% Moisture: decanted: (Y/N) Date Received: 04/22/00

Extraction: (SepF/Cont/Sonc) CONT Date Extracted: 04/24/00

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 05/09/00

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

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

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	0.86	P
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11100-14-4	Aroclor-1268	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL54

Lab Name: ENVIROSYSTEMS Contract: 68W99023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL45

Matrix: (soil/water) WATER Lab Sample ID: 00041162

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

% Moisture: decanted: (Y/N) Date Received: 04/22/00

Extraction: (SepF/Cont/Sonc) CONT Date Extracted: 04/24/00

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 05/09/00

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

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

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
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11100-14-4	Aroclor-1268	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL70

Lab Name: ENVIROSYSTEMS Contract: 68W99023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL45

Matrix: (soil/water) WATER Lab Sample ID: 00041163

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

% Moisture: decanted: (Y/N) Date Received: 04/22/00

Extraction: (SepF/Cont/Sonc) CONT Date Extracted: 04/24/00

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 05/09/00

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

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

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
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11100-14-4	Aroclor-1268	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL55

Lab Name: ENVIROSYSTEMS Contract: 68W99023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Matrix: (soil/water) SOIL Lab Sample ID: 00041165

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

% Moisture: 15 decanted: (Y/N) N Date Received: 04/22/00

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/26/00

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 05/04/00

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 6.9 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.0	U
319-85-7	beta-BHC	2.0	U
319-86-8	delta-BHC	2.0	U
58-89-9	gamma-BHC (Lindane)	2.0	U
76-44-8	Heptachlor	2.0	U
309-00-2	Aldrin	2.0	U
1024-57-3	Heptachlor epoxide	2.0	U
959-98-8	Endosulfan I	2.0	U
60-57-1	Dieldrin	3.9	U
72-55-9	4,4'-DDE	3.9	U
72-20-8	Endrin	3.9	U
33213-65-9	Endosulfan II	3.9	U
72-54-8	4,4'-DDD	3.9	U
1031-07-8	Endosulfan sulfate	3.9	U
50-29-3	4,4'-DDT	3.9	U
72-43-5	Methoxychlor	20	U
53494-70-5	Endrin ketone	3.9	U
7421-93-4	Endrin aldehyde	3.9	U
5103-71-9	alpha-Chlordane	2.0	U
5103-74-2	gamma-Chlordane	2.0	U
8001-35-2	Toxaphene	200	U
12674-11-2	Aroclor-1016	39	U
11100-14-4	Aroclor-1268	39	U
11141-16-5	Aroclor-1232	39	U
53469-21-9	Aroclor-1242	39	U
12672-29-6	Aroclor-1248	39	U
11097-69-1	Aroclor-1254	39	U
11096-82-5	Aroclor-1260	39	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL56

Lab Name: ENVIROSYSTEMS Contract: 68W99023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Matrix: (soil/water) SOIL Lab Sample ID: 00041166

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

% Moisture: ~~29~~ 24 decanted: (Y/N) N Date Received: 04/22/00

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/26/00

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 05/04/00

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 6.2 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.4	U
319-85-7	beta-BHC	2.4	U
319-86-8	delta-BHC	2.4	U
58-89-9	gamma-BHC (Lindane)	2.4	U
76-44-8	Heptachlor	2.4	U
309-00-2	Aldrin	2.4	U
1024-57-3	Heptachlor epoxide	2.4	U
959-98-8	Endosulfan I	2.4	U
60-57-1	Dieldrin	4.6	U
72-55-9	4,4'-DDE	4.6	U
72-20-8	Endrin	4.6	U
33213-65-9	Endosulfan II	4.6	U
72-54-8	4,4'-DDD	4.6	U
1031-07-8	Endosulfan sulfate	4.6	U
50-29-3	4,4'-DDT	4.6	U
72-43-5	Methoxychlor	24	U
53494-70-5	Endrin ketone	4.6	U
7421-93-4	Endrin aldehyde	4.6	U
5103-71-9	alpha-Chlordane	2.4	U
5103-74-2	gamma-Chlordane	2.4	U
8001-35-2	Toxaphene	240	U
12674-11-2	Aroclor-1016	46	U
11100-14-4	Aroclor-1268	46	U
11141-16-5	Aroclor-1232	46	U
53469-21-9	Aroclor-1242	46	U
12672-29-6	Aroclor-1248	46	U
11097-69-1	Aroclor-1254	46	U
11096-82-5	Aroclor-1260	46	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL57

Lab Name: ENVIROSYSTEMS Contract: 68W99023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Matrix: (soil/water) SOIL Lab Sample ID: 00041167

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

% Moisture: 44 decanted: (Y/N) N Date Received: 04/22/00

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/26/00

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 05/04/00

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 5.9 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	3.0	U
319-85-7	beta-BHC	3.0	U
319-86-8	delta-BHC	3.0	U
58-89-9	gamma-BHC (Lindane)	3.0	U
76-44-8	Heptachlor	3.0	U
309-00-2	Aldrin	3.0	U
1024-57-3	Heptachlor epoxide	3.0	U
959-98-8	Endosulfan I	3.0	U
60-57-1	Dieldrin	5.9	U
72-55-9	4,4'-DDE	5.9	U
72-20-8	Endrin	5.9	U
33213-65-9	Endosulfan II	5.9	U
72-54-8	4,4'-DDD	5.9	U
1031-07-8	Endosulfan sulfate	5.9	U
50-29-3	4,4'-DDT	5.9	U
72-43-5	Methoxychlor	30	U
53494-70-5	Endrin ketone	5.9	U
7421-93-4	Endrin aldehyde	5.9	U
5103-71-9	alpha-Chlordane	3.0	U
5103-74-2	gamma-Chlordane	3.0	U
8001-35-2	Toxaphene	300	U
12674-11-2	Aroclor-1016	59	U
11100-14-4	Aroclor-1268	59	U
11141-16-5	Aroclor-1232	59	U
53469-21-9	Aroclor-1242	59	U
12672-29-6	Aroclor-1248	59	U
11097-69-1	Aroclor-1254	59	U
11096-82-5	Aroclor-1260	59	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL58

Lab Name: ENVIROSYSTEMS Contract: 68W99023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Matrix: (soil/water) SOIL Lab Sample ID: 00041168

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

% Moisture: 26 decanted: (Y/N) N Date Received: 04/22/00

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/26/00

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 05/04/00

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 6.1 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.3	U
319-85-7	beta-BHC	2.3	U
319-86-8	delta-BHC	2.3	U
58-89-9	gamma-BHC (Lindane)	2.3	U
76-44-8	Heptachlor	2.3	U
309-00-2	Aldrin	2.3	U
1024-57-3	Heptachlor epoxide	2.3	U
959-98-8	Endosulfan I	2.3	U
60-57-1	Dieldrin	4.5	U
72-55-9	4,4'-DDE	4.5	U
72-20-8	Endrin	4.5	U
33213-65-9	Endosulfan II	4.5	U
72-54-8	4,4'-DDD	4.5	U
1031-07-8	Endosulfan sulfate	4.5	U
50-29-3	4,4'-DDT	4.5	U
72-43-5	Methoxychlor	23	U
53494-70-5	Endrin ketone	4.5	U
7421-93-4	Endrin aldehyde	4.5	U
5103-71-9	alpha-Chlordane	2.3	U
5103-74-2	gamma-Chlordane	2.3	U
8001-35-2	Toxaphene	230	U
12674-11-2	Aroclor-1016	45	U
11100-14-4	Aroclor-1268	45	U
11141-16-5	Aroclor-1232	45	U
53469-21-9	Aroclor-1242	45	U
12672-29-6	Aroclor-1248	45	U
11097-69-1	Aroclor-1254	45	U
11096-82-5	Aroclor-1260	45	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL60

Lab Name: ENVIROSYSTEMS Contract: 68W99023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Matrix: (soil/water) SOIL Lab Sample ID: 00041169

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

% Moisture: 24 decanted: (Y/N) N Date Received: 04/22/00

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/26/00

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 05/04/00

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 6.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.2	U
319-85-7	beta-BHC	2.2	U
319-86-8	delta-BHC	2.2	U
58-89-9	gamma-BHC (Lindane)	2.2	U
76-44-8	Heptachlor	2.2	U
309-00-2	Aldrin	2.2	U
1024-57-3	Heptachlor epoxide	2.2	U
959-98-8	Endosulfan I	2.2	U
60-57-1	Dieldrin	4.3	U
72-55-9	4,4'-DDE	3.8	J
72-20-8	Endrin	4.3	U
33213-65-9	Endosulfan II	4.3	U
72-54-8	4,4'-DDD	4.3	U
1031-07-8	Endosulfan sulfate	4.3	U
50-29-3	4,4'-DDT	4.1	J
72-43-5	Methoxychlor	22	U
53494-70-5	Endrin ketone	4.3	U
7421-93-4	Endrin aldehyde	4.3	U
5103-71-9	alpha-Chlordane	2.2	U
5103-74-2	gamma-Chlordane	2.2	U
8001-35-2	Toxaphene	220	U
12674-11-2	Aroclor-1016	43	U
11100-14-4	Aroclor-1268	43	U
11141-16-5	Aroclor-1232	43	U
53469-21-9	Aroclor-1242	43	U
12672-29-6	Aroclor-1248	43	U
11097-69-1	Aroclor-1254	43	U
11096-82-5	Aroclor-1260	43	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL61

Lab Name: ENVIROSYSTEMS Contract: 68W99023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Matrix: (soil/water) SOIL Lab Sample ID: 00041170

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

% Moisture: ~~25~~ 24 (D.W.) decanted: (Y/N) N Date Received: 04/22/00

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/26/00

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 05/04/00

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 5.3 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.3	U
319-85-7	beta-BHC	2.3	U
319-86-8	delta-BHC	2.3	U
58-89-9	gamma-BHC (Lindane)	2.3	U
76-44-8	Heptachlor	2.3	U
309-00-2	Aldrin	2.3	U
1024-57-3	Heptachlor epoxide	2.3	U
959-98-8	Endosulfan I	2.3	U
60-57-1	Dieldrin	4.4	U
72-55-9	4,4'-DDE	4.4	U
72-20-8	Endrin	4.4	U
33213-65-9	Endosulfan II	4.4	U
72-54-8	4,4'-DDD	4.4	U
1031-07-8	Endosulfan sulfate	4.4	U
50-29-3	4,4'-DDT	4.4	U
72-43-5	Methoxychlor	23	U
53494-70-5	Endrin ketone	4.4	U
7421-93-4	Endrin aldehyde	4.4	U
5103-71-9	alpha-Chlordane	2.3	U
5103-74-2	gamma-Chlordane	2.3	U
8001-35-2	Toxaphene	230	U
12674-11-2	Aroclor-1016	44	U
11100-14-4	Aroclor-1268	44	U
11141-16-5	Aroclor-1232	44	U
53469-21-9	Aroclor-1242	44	U
12672-29-6	Aroclor-1248	44	U
11097-69-1	Aroclor-1254	44	U
11096-82-5	Aroclor-1260	44	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL62

Lab Name: ENVIROSYSTEMS Contract: 68W99023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Matrix: (soil/water) SOIL Lab Sample ID: 00041171

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

% Moisture: 18 decanted: (Y/N) N Date Received: 04/22/00

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/26/00

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 05/04/00

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 6.3 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.1	U
319-85-7	beta-BHC	2.1	U
319-86-8	delta-BHC	2.1	U
58-89-9	gamma-BHC (Lindane)	2.1	U
76-44-8	Heptachlor	2.1	U
309-00-2	Aldrin	2.1	U
1024-57-3	Heptachlor epoxide	2.1	U
959-98-8	Endosulfan I	2.1	U
60-57-1	Dieldrin	4.0	U
72-55-9	4,4'-DDE	4.0	U
72-20-8	Endrin	4.0	U
33213-65-9	Endosulfan II	4.0	U
72-54-8	4,4'-DDD	4.0	U
1031-07-8	Endosulfan sulfate	4.0	U
50-29-3	4,4'-DDT	4.0	U
72-43-5	Methoxychlor	21	U
53494-70-5	Endrin ketone	4.0	U
7421-93-4	Endrin aldehyde	4.0	U
5103-71-9	alpha-Chlordane	2.1	U
5103-74-2	gamma-Chlordane	2.1	U
8001-35-2	Toxaphene	210	U
12674-11-2	Aroclor-1016	40	U
11100-14-4	Aroclor-1268	40	U
11141-16-5	Aroclor-1232	40	U
53469-21-9	Aroclor-1242	40	U
12672-29-6	Aroclor-1248	40	U
11097-69-1	Aroclor-1254	40	U
11096-82-5	Aroclor-1260	40	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL63

Lab Name: ENVIROSYSTEMS Contract: 68W99023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Matrix: (soil/water) SOIL Lab Sample ID: 00041172

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

% Moisture: 18 decanted: (Y/N) N Date Received: 04/22/00

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/26/00

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 05/04/00

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 5.6 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.1	U
319-85-7	beta-BHC	2.1	U
319-86-8	delta-BHC	2.1	U
58-89-9	gamma-BHC (Lindane)	2.1	U
76-44-8	Heptachlor	2.1	U
309-00-2	Aldrin	2.1	U
1024-57-3	Heptachlor epoxide	2.1	U
959-98-8	Endosulfan I	2.1	U
60-57-1	Dieldrin	4.0	U
72-55-9	4,4'-DDE	4.0	U
72-20-8	Endrin	4.0	U
33213-65-9	Endosulfan II	4.0	U
72-54-8	4,4'-DDD	4.0	U
1031-07-8	Endosulfan sulfate	4.0	U
50-29-3	4,4'-DDT	4.0	U
72-43-5	Methoxychlor	21	U
53494-70-5	Endrin ketone	4.0	U
7421-93-4	Endrin aldehyde	4.0	U
5103-71-9	alpha-Chlordane	2.1	U
5103-74-2	gamma-Chlordane	2.1	U
8001-35-2	Toxaphene	210	U
12674-11-2	Aroclor-1016	40	U
11100-14-4	Aroclor-1268	40	U
11141-16-5	Aroclor-1232	40	U
53469-21-9	Aroclor-1242	40	U
12672-29-6	Aroclor-1248	40	U
11097-69-1	Aroclor-1254	40	U
11096-82-5	Aroclor-1260	40	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL64

Lab Name: ENVIROSYSTEMS Contract: 68W99023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Matrix: (soil/water) SOIL Lab Sample ID: 00041173

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

% Moisture: 31 decanted: (Y/N) N Date Received: 04/22/00

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/26/00

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 05/04/00

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 5.4 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.5	U
319-85-7	beta-BHC	2.5	U
319-86-8	delta-BHC	2.5	U
58-89-9	gamma-BHC (Lindane)	2.5	U
76-44-8	Heptachlor	2.5	U
309-00-2	Aldrin	2.5	U
1024-57-3	Heptachlor epoxide	2.5	U
959-98-8	Endosulfan I	2.5	U
60-57-1	Dieldrin	4.8	U
72-55-9	4,4'-DDE	4.8	U
72-20-8	Endrin	4.8	U
33213-65-9	Endosulfan II	4.8	U
72-54-8	4,4'-DDD	4.8	U
1031-07-8	Endosulfan sulfate	4.8	U
50-29-3	4,4'-DDT	4.8	U
72-43-5	Methoxychlor	25	U
53494-70-5	Endrin ketone	4.8	U
7421-93-4	Endrin aldehyde	4.8	U
5103-71-9	alpha-Chlordane	2.5	U
5103-74-2	gamma-Chlordane	2.5	U
8001-35-2	Toxaphene	250	U
12674-11-2	Aroclor-1016	48	U
11100-14-4	Aroclor-1268	48	U
11141-16-5	Aroclor-1232	48	U
53469-21-9	Aroclor-1242	48	U
12672-29-6	Aroclor-1248	48	U
11097-69-1	Aroclor-1254	48	U
11096-82-5	Aroclor-1260	48	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL65

Lab Name: ENVIROSYSTEMS Contract: 68W99023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Matrix: (soil/water) SOIL Lab Sample ID: 00041174

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

% Moisture: 12 decanted: (Y/N) N Date Received: 04/22/00

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/26/00

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 05/04/00

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 4.7 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.9	U
319-85-7	beta-BHC	1.9	U
319-86-8	delta-BHC	1.9	U
58-89-9	gamma-BHC (Lindane)	1.9	U
76-44-8	Heptachlor	1.9	U
309-00-2	Aldrin	1.9	U
1024-57-3	Heptachlor epoxide	1.9	U
959-98-8	Endosulfan I	1.9	U
60-57-1	Dieldrin	3.7	U
72-55-9	4,4'-DDE	3.7	U
72-20-8	Endrin	3.7	U
33213-65-9	Endosulfan II	3.7	U
72-54-8	4,4'-DDD	3.7	U
1031-07-8	Endosulfan sulfate	3.7	U
50-29-3	4,4'-DDT	3.7	U
72-43-5	Methoxychlor	19	U
53494-70-5	Endrin ketone	3.7	U
7421-93-4	Endrin aldehyde	3.7	U
5103-71-9	alpha-Chlordane	1.9	U
5103-74-2	gamma-Chlordane	1.9	U
8001-35-2	Toxaphene	190	U
12674-11-2	Aroclor-1016	37	U
11100-14-4	Aroclor-1268	37	U
11141-16-5	Aroclor-1232	37	U
53469-21-9	Aroclor-1242	37	U
12672-29-6	Aroclor-1248	37	U
11097-69-1	Aroclor-1254	37	U
11096-82-5	Aroclor-1260	37	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL66

Lab Name: ENVIROSYSTEMS Contract: 68W99023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Matrix: (soil/water) SOIL Lab Sample ID: 00041175

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

% Moisture: 18 decanted: (Y/N) N Date Received: 04/22/00

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/26/00

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 05/05/00

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 6.4 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.1	U
319-85-7	beta-BHC	2.1	U
319-86-8	delta-BHC	2.1	U
58-89-9	gamma-BHC (Lindane)	2.1	U
76-44-8	Heptachlor	2.1	U
309-00-2	Aldrin	2.1	U
1024-57-3	Heptachlor epoxide	2.1	U
959-98-8	Endosulfan I	2.1	U
60-57-1	Dieldrin	4.0	U
72-55-9	4,4'-DDE	4.0	U
72-20-8	Endrin	4.0	U
33213-65-9	Endosulfan II	4.0	U
72-54-8	4,4'-DDD	4.0	U
1031-07-8	Endosulfan sulfate	4.0	U
50-29-3	4,4'-DDT	4.0	U
72-43-5	Methoxychlor	21	U
53494-70-5	Endrin ketone	4.0	U
7421-93-4	Endrin aldehyde	4.0	U
5103-71-9	alpha-Chlordane	2.1	U
5103-74-2	gamma-Chlordane	2.1	U
8001-35-2	Toxaphene	210	U
12674-11-2	Aroclor-1016	40	U
11100-14-4	Aroclor-1268	40	U
11141-16-5	Aroclor-1232	40	U
53469-21-9	Aroclor-1242	40	U
12672-29-6	Aroclor-1248	40	U
11097-69-1	Aroclor-1254	40	U
11096-82-5	Aroclor-1260	40	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL67

Lab Name: ENVIROSYSTEMS Contract: 68W99023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Matrix: (soil/water) SOIL Lab Sample ID: 00041176

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

% Moisture: 19 decanted: (Y/N) N Date Received: 04/22/00

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/26/00

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 05/05/00

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 5.7 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.1	U
319-85-7	beta-BHC	2.1	U
319-86-8	delta-BHC	2.1	U
58-89-9	gamma-BHC (Lindane)	2.1	U
76-44-8	Heptachlor	2.1	U
309-00-2	Aldrin	2.1	U
1024-57-3	Heptachlor epoxide	2.1	U
959-98-8	Endosulfan I	2.1	U
60-57-1	Dieldrin	4.1	U
72-55-9	4,4'-DDE	4.1	U
72-20-8	Endrin	4.1	U
33213-65-9	Endosulfan II	4.1	U
72-54-8	4,4'-DDD	4.1	U
1031-07-8	Endosulfan sulfate	4.1	U
50-29-3	4,4'-DDT	7.6	P
72-43-5	Methoxychlor	21	U
53494-70-5	Endrin ketone	4.1	U
7421-93-4	Endrin aldehyde	4.1	U
5103-71-9	alpha-Chlordane	2.1	U
5103-74-2	gamma-Chlordane	2.1	U
8001-35-2	Toxaphene	210	U
12674-11-2	Aroclor-1016	41	U
11100-14-4	Aroclor-1268	41	U
11141-16-5	Aroclor-1232	41	U
53469-21-9	Aroclor-1242	41	U
12672-29-6	Aroclor-1248	41	U
11097-69-1	Aroclor-1254	41	U
11096-82-5	Aroclor-1260	41	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL68

Lab Name: ENVIROSYSTEMS Contract: 68W99023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Matrix: (soil/water) SOIL Lab Sample ID: 00041177

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

% Moisture: ~~19~~ 18 (D.W.) decanted: (Y/N) N Date Received: 04/22/00

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/26/00

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 05/05/00

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 4.2 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.1	U
319-85-7	beta-BHC	2.1	U
319-86-8	delta-BHC	2.1	U
58-89-9	gamma-BHC (Lindane)	2.1	U
76-44-8	Heptachlor	2.1	U
309-00-2	Aldrin	2.1	U
1024-57-3	Heptachlor epoxide	2.1	U
959-98-8	Endosulfan I	2.1	U
60-57-1	Dieldrin	4.1	U
72-55-9	4,4'-DDE	4.1	U
72-20-8	Endrin	4.1	U
33213-65-9	Endosulfan II	4.1	U
72-54-8	4,4'-DDD	4.1	U
1031-07-8	Endosulfan sulfate	4.1	U
50-29-3	4,4'-DDT	4.1	U
72-43-5	Methoxychlor	21	U
53494-70-5	Endrin ketone	4.1	U
7421-93-4	Endrin aldehyde	4.1	U
5103-71-9	alpha-Chlordane	2.1	U
5103-74-2	gamma-Chlordane	2.1	U
8001-35-2	Toxaphene	210	U
12674-11-2	Aroclor-1016	41	U
11100-14-4	Aroclor-1268	41	U
11141-16-5	Aroclor-1232	41	U
53469-21-9	Aroclor-1242	41	U
12672-29-6	Aroclor-1248	41	U
11097-69-1	Aroclor-1254	41	U
11096-82-5	Aroclor-1260	41	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL69

Lab Name: ENVIROSYSTEMS Contract: 68W99023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Matrix: (soil/water) SOIL Lab Sample ID: 00041178

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

% Moisture: 29 decanted: (Y/N) N Date Received: 04/22/00

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/26/00

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 05/05/00

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 6.7 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.4	U
319-85-7	beta-BHC	2.4	U
319-86-8	delta-BHC	2.4	U
58-89-9	gamma-BHC (Lindane)	2.4	U
76-44-8	Heptachlor	2.4	U
309-00-2	Aldrin	2.4	U
1024-57-3	Heptachlor epoxide	2.4	U
959-98-8	Endosulfan I	2.4	U
60-57-1	Dieldrin	4.6	U
72-55-9	4,4'-DDE	4.6	U
72-20-8	Endrin	4.6	U
33213-65-9	Endosulfan II	4.6	U
72-54-8	4,4'-DDD	4.6	U
1031-07-8	Endosulfan sulfate	4.6	U
50-29-3	4,4'-DDT	4.6	U
72-43-5	Methoxychlor	24	U
53494-70-5	Endrin ketone	4.6	U
7421-93-4	Endrin aldehyde	4.6	U
5103-71-9	alpha-Chlordane	2.4	U
5103-74-2	gamma-Chlordane	2.4	U
8001-35-2	Toxaphene	240	U
12674-11-2	Aroclor-1016	46	U
11100-14-4	Aroclor-1268	46	U
11141-16-5	Aroclor-1232	46	U
53469-21-9	Aroclor-1242	46	U
12672-29-6	Aroclor-1248	46	U
11097-69-1	Aroclor-1254	46	U
11096-82-5	Aroclor-1260	46	U

Appendix D

Tentatively Identified Compounds

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CSL45

Lab Name: ENVIROSYSTEMS Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL45

Matrix: (soil/water) WATER Lab Sample ID: 00041153

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 041153

Level: (low/med) LOW Date Received: 04/22/00

% Moisture: not dec. Date Analyzed: 04/25/00

QC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs found: 1

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
~~1. 1825-61-2~~	~~SILANE, METHOXYTRIMETHYL-~~	~~8.93~~	~~7~~	~~JN~~

D.V. ESAT 6/5/

0 0021

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CSL46

Lab Name: ENVIROSYSTEMS Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL45

Matrix: (soil/water) WATER Lab Sample ID: 00041154

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 041154

Level: (low/med) LOW Date Received: 04/22/00

% Moisture: not dec. Date Analyzed: 04/25/00

GC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

0:"032

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CSL47

Lab Name: ENVIROSYSTEMS Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL45

Matrix: (soil/water) WATER Lab Sample ID: 00041155

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 041155

Level: (low/med) LOW Date Received: 04/22/00

% Moisture: not dec. Date Analyzed: 04/25/00

GC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

0..0041

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CSL48

Lab Name: ENVIROSYSTEMS Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL45

Matrix: (soil/water) WATER Lab Sample ID: 00041156

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 041156

Level: (low/med) LOW Date Received: 04/22/00

% Moisture: not dec. Date Analyzed: 04/25/00

GC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

0.11C50

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CSL49

Lab Name: ENVIROSYSTEMS Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL45

Matrix: (soil/water) WATER Lab Sample ID: 00041157

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 041157

Level: (low/med) LOW Date Received: 04/22/00

% Moisture: not dec. Date Analyzed: 04/25/00

GC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs found: 1

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
~~1. 1825-61-2~~	~~SILANE, METHOXYTRIMETHYL~~	~~8.98~~	~~8~~	~~JN~~

D.V. 6/5/0

0 0059

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CSL50

Lab Name: ENVIROSYSTEMS Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL45

Matrix: (soil/water) WATER Lab Sample ID: 00041158

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 041158

Level: (low/med) LOW Date Received: 04/22/00

% Moisture: not dec. Date Analyzed: 04/25/00

GC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

02 0070

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CSL51

Lab Name: ENVIROSYSTEMS Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL45

Matrix: (soil/water) WATER Lab Sample ID: 00041159

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 041159

Level: (low/med) LOW Date Received: 04/22/00

% Moisture: not dec. Date Analyzed: 04/25/00

GC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

0..079

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CSL52

Lab Name: ENVIROSYSTEMS Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL45

Matrix: (soil/water) WATER Lab Sample ID: 00041160

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 041160

Level: (low/med) LOW Date Received: 04/22/00

% Moisture: not dec. Date Analyzed: 04/25/00

QC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

0041088

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CSL53

Lab Name: ENVIROSYSTEMS Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL45

Matrix: (soil/water) WATER Lab Sample ID: 00041161

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 041161

Level: (low/med) LOW Date Received: 04/22/00

% Moisture: not dec. Date Analyzed: 04/26/00

GC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

041097

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CSL54

Lab Name: ENVIROSYSTEMS Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL45

Matrix: (soil/water) WATER Lab Sample ID: 00041162

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 041162

Level: (low/med) LOW Date Received: 04/22/00

% Moisture: not dec. Date Analyzed: 04/26/00

GC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

04.1106

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CSL70

Lab Name: ENVIROSYSTEMS Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL45

Matrix: (soil/water) WATER Lab Sample ID: 00041163

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 041163

Level: (low/med) LOW Date Received: 04/22/00

% Moisture: not dec. Date Analyzed: 04/26/00

GC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

040115

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CSL71

Lab Name: ENVIROSYSTEMS Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL45

Matrix: (soil/water) WATER Lab Sample ID: 00041164

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 041164

Level: (low/med) LOW Date Received: 04/22/00

% Moisture: not dec. Date Analyzed: 04/26/00

GC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

000124

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CSL55

Lab Name: ENVIROSYSTEMS Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Matrix: (soil/water) SOIL Lab Sample ID: 00041165

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 041165

Level: (low/med) LOW Date Received: 04/22/00

% Moisture: not dec. 15 Date Analyzed: 04/25/00

GC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

0041022

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CSL56

Lab Name: ENVIROSYSTEMS Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Matrix: (soil/water) SOIL Lab Sample ID: 00041166

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 041166

Level: (low/med) LOW Date Received: 04/22/00

% Moisture: not dec. 24 Date Analyzed: 04/25/00

GC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

041031

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CSL57

Lab Name: ENVIROSYSTEMS Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Matrix: (soil/water) SOIL Lab Sample ID: 00041167

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 041167

Level: (low/med) LOW Date Received: 04/22/00

% Moisture: not dec. 44 Date Analyzed: 04/25/00

GC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CSL58

Lab Name: ENVIROSYSTEMS Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Matrix: (soil/water) SOIL Lab Sample ID: 00041168

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 041168

Level: (low/med) LOW Date Received: 04/22/00

% Moisture: not dec. 26 Date Analyzed: 04/25/00

GC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

040049

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CSL60RE

Lab Name: ENVIROSYSTEMS Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Matrix: (soil/water) SOIL Lab Sample ID: 00041169

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 041169RE

Level: (low/med) LOW Date Received: 04/22/00

% Moisture: not dec. 24 Date Analyzed: 04/26/00

GC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CSL61

Lab Name: ENVIROSYSTEMS Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Matrix: (soil/water) SOIL Lab Sample ID: 00041170

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 041170

Level: (low/med) LOW Date Received: 04/22/00

% Moisture: not dec. 25 Date Analyzed: 04/25/00

GC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

0.0079

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CSL62

Lab Name: ENVIROSYSTEMS Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Matrix: (soil/water) SOIL Lab Sample ID: 00041171

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 041171

Level: (low/med) LOW Date Received: 04/22/00

% Moisture: not dec. 18 Date Analyzed: 04/25/00

GC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

041088

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CSL63

Lab Name: ENVIROSYSTEMS Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Matrix: (soil/water) SOIL Lab Sample ID: 00041172

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 041169

Level: (low/med) LOW Date Received: 04/22/00

% Moisture: not dec. 18 Date Analyzed: 04/25/00

GC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

0...0097

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CSL64

Lab Name: ENVIROSYSTEMS Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Matrix: (soil/water) SOIL Lab Sample ID: 00041173

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 041173

Level: (low/med) LOW Date Received: 04/22/00

% Moisture: not dec. 31 Date Analyzed: 04/25/00

GC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

0041118

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CSL65

Lab Name: ENVIROSYSTEMS Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Matrix: (soil/water) SOIL Lab Sample ID: 00041174

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 041174

Level: (low/med) LOW Date Received: 04/24/00

% Moisture: not dec. 12 Date Analyzed: 04/25/00

GC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CSL66

Lab Name: ENVIROSYSTEMS Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Matrix: (soil/water) SOIL Lab Sample ID: 00041175

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 041175

Level: (low/med) LOW Date Received: 04/22/00

% Moisture: not dec. 18 Date Analyzed: 04/26/00

GC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

040139

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CSL67

Lab Name: ENVIROSYSTEMS Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Matrix: (soil/water) SOIL Lab Sample ID: 00041176

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 041176

Level: (low/med) LOW Date Received: 04/22/00

% Moisture: not dec. 19 Date Analyzed: 04/26/00

GC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CSL68

Lab Name: ENVIROSYSTEMS Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Matrix: (soil/water) SOIL Lab Sample ID: 00041177

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 041177

Level: (low/med) LOW Date Received: 04/22/00

% Moisture: not dec. 19 Date Analyzed: 04/26/00

QC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

041172

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CSL69

Lab Name: ENVIROSYSTEMS Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Matrix: (soil/water) SOIL Lab Sample ID: 00041178

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 041178

Level: (low/med) LOW Date Received: 04/22/00

% Moisture: not dec. 29 Date Analyzed: 04/26/00

GC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

041184

1G

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CSL45

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL45

Matrix: (soil/water) WATER Lab Sample ID: 00041153

Sample wt/vol: 1000 (g/mL) ML Lab File ID: H73GB683

Level: (low/med) LOW Date Received: 04/21/00

% Moisture: _____ Decanted: (Y/N)___ Date Extracted:04/25/00

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/02/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Extraction: (Type) CONT

Number TICs found: 0

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CSL46

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL45

Matrix: (soil/water) WATER Lab Sample ID: 00041154

Sample wt/vol: 1000 (g/mL) ML Lab File ID: H73GB686

Level: (low/med) LOW Date Received: 04/21/00

% Moisture: _____ Decanted: (Y/N)___ Date Extracted:04/25/00

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/02/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Extraction: (Type) CONT

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CSL47

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL45

Matrix: (soil/water) WATER Lab Sample ID: 00041155

Sample wt/vol: 1000 (g/mL) ML Lab File ID: H73GB687

Level: (low/med) LOW Date Received: 04/21/00

% Moisture: _____ Decanted: (Y/N)___ Date Extracted:04/25/00

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/02/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Extraction: (Type) CONT

Number TICs found: 0

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CSL48

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL45

Matrix: (soil/water) WATER Lab Sample ID: 00041156

Sample wt/vol: 1000 (g/mL) ML Lab File ID: H73GB690

Level: (low/med) LOW Date Received: 04/21/00

% Moisture: _____ Decanted: (Y/N)___ Date Extracted:04/25/00

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/03/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Extraction: (Type) CONT

Number TICs found: 0

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CSL49

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL45

Matrix: (soil/water) WATER Lab Sample ID: 0041157

Sample wt/vol: 1000 (g/mL) ML Lab File ID: H73GB691

Level: (low/med) LOW Date Received: 04/21/00

% Moisture: _____ Decanted: (Y/N)___ Date Extracted:04/25/00

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/03/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Extraction: (Type) CONT

Number TICs found: 0

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CSL50

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL45

Matrix: (soil/water) WATER Lab Sample ID: 00041158

Sample wt/vol: 1000 (g/mL) ML Lab File ID: H73GB692

Level: (low/med) LOW Date Received: 04/21/00

% Moisture: _____ Decanted: (Y/N)___ Date Extracted:04/25/00

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/03/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Extraction: (Type) CONT

Number TICs found: 0

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CSL51

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL45

Matrix: (soil/water) WATER Lab Sample ID: 00041159

Sample wt/vol: 1000 (g/mL) ML Lab File ID: H73GB693

Level: (low/med) LOW Date Received: 04/21/00

% Moisture: _____ Decanted: (Y/N)___ Date Extracted:04/25/00

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/03/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Extraction: (Type) CONT

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CSL52

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL45

Matrix: (soil/water) WATER Lab Sample ID: 00041160

Sample wt/vol: 1000 (g/mL) ML Lab File ID: H73GB694

Level: (low/med) LOW Date Received: 04/21/00

% Moisture: _____ Decanted: (Y/N)___ Date Extracted:04/25/00

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/03/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Extraction: (Type) CONT

Number TICs found: 0

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CSL53

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL45

Matrix: (soil/water) WATER Lab Sample ID: 00041161

Sample wt/vol: 1000 (g/mL) ML Lab File ID: H73GB695

Level: (low/med) LOW Date Received: 04/21/00

% Moisture: _____ Decanted: (Y/N)___ Date Extracted:04/25/00

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/03/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Extraction: (Type) CONT

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CSL54

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL45

Matrix: (soil/water) WATER Lab Sample ID: 00041162

Sample wt/vol: 1000 (g/mL) ML Lab File ID: H73GB696

Level: (low/med) LOW Date Received: 04/21/00

% Moisture: _____ Decanted: (Y/N)___ Date Extracted:04/25/00

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/03/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Extraction: (Type) CONT

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
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EPA SAMPLE NO.

CSL70

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL45

Matrix: (soil/water) WATER Lab Sample ID: 00041163

Sample wt/vol: 1000 (g/mL) ML Lab File ID: H73GB697

Level: (low/med) LOW Date Received: 04/21/00

% Moisture: _____ Decanted: (Y/N) ___ Date Extracted: 04/25/00

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/03/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Extraction: (Type) CONT

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CSL55

Lab Name: ENVIROSYSTEMS, INC. Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Matrix: (soil/water) SOIL Lab Sample ID: 00041165

Sample wt/vol: 30.0 (g/mL) G Lab File ID: H73GB701

Level: (low/med) LOW Date Received: 04/22/00

% Moisture: 15 Decanted: (Y/N) N Date Extracted:04/26/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/04/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) SONC

Number TICs found: 3

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
~~1.~~	~~UNKNOWN~~	~~4.19~~	~~1100~~	~~J~~
~~2. 57-10-3~~	~~N-HEXADECANOIC ACID~~	~~18.00~~	~~130~~	~~NJ~~
3. 83-47-6	.GAMMA.-SITOSTEROL	29.21	110	NJ
4.				
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CSL56

Lab Name: ENVIROSYSTEMS, INC. Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Matrix: (soil/water) SOIL Lab Sample ID: 00041166

Sample wt/vol: 30.0 (g/mL) G Lab File ID: H73GB702

Level: (low/med) LOW Date Received: 04/22/00

% Moisture: 24 Decanted: (Y/N) N Date Extracted: 04/26/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/04/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.0 Extraction: (Type) SONC

Number TICs found: 6

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		~~UNKNOWN~~	~~4.19~~	~~1400~~	~~J~~
2.	~~57-10-3~~	~~N-HEXADECANOIC ACID~~	~~18.87~~	~~130~~	~~NJ~~
3.	83-47-6	.GAMMA.-SITOSTEROL	29.21	130	NJ
4.	83-47-6	.GAMMA.-SITOSTEROL	29.61	88	NJ
5.		UNKNOWN	29.78	89	J
6.	559-74-0	FRIEDELIN	30.83	370	NJ
7.					
8.					
9.					
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RVD 5/26

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CSL57

Lab Name: ENVIROSYSTEMS, INC. Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Matrix: (soil/water) SOIL Lab Sample ID: 00041167

Sample wt/vol: 30.0 (g/mL) G Lab File ID: H73GB703

Level: (low/med) LOW Date Received: 04/22/00

% Moisture: 19 Decanted: (Y/N) N Date Extracted: 04/26/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/04/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) SONC

Number TICs found: 1

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
~~1.~~	~~UNKNOWN~~	~~4.20~~	~~1100~~	~~J~~
2.				
3.				
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CSL58

Lab Name: ENVIROSYSTEMS, INC. Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Matrix: (soil/water) SOIL Lab Sample ID: 00041168

Sample wt/vol: 30.0 (g/mL) G Lab File ID: H73GB704

Level: (low/med) LOW Date Received: 04/22/00

% Moisture: 26 Decanted: (Y/N) N Date Extracted:04/26/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/04/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.0 Extraction: (Type) SONC

Number TICs found: 3

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
~~1. 123-42-2~~	~~2-PENTANONE, 4-HYDROXY-4-MET~~	~~4.18~~	~~1500~~	~~NJ~~
~~2. 79-34-5~~	~~ETHANE, 1,1,2,2-TETRACHLORO-~~	~~18.87~~	~~180~~	~~NJ~~
3. 1454-85-9	1-HEPTADECANOL	23.46	100	NJ
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EPA SAMPLE NO.

CSL60

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: ENVIROSYSTEMS, INC. Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Matrix: (soil/water) SOIL Lab Sample ID: 00041169

Sample wt/vol: 30.0 (g/mL) G Lab File ID: H73GB745

Level: (low/med) LOW Date Received: 04/22/00

% Moisture: 24 Decanted: (Y/N) N Date Extracted:05/05/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/10/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.0 Extraction: (Type) SONC

Number TICs found: 25

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
~~1.~~	~~UNKNOWN~~	~~4.04~~	~~780~~	~~J~~
~~2.~~	~~UNKNOWN~~	~~4.23~~	~~2000~~	~~J~~
3.	UNKNOWN	4.96	140	J
~~4.~~	~~UNKNOWN~~	~~5.18~~	~~210~~	~~J~~
5.	UNKNOWN	5.33	270	J
6.	UNKNOWN	5.36	290	J
~~7. 111-77-3~~	~~ETHANOL, 2-(2-METHOXYETHOXY)~~	~~5.72~~	~~330~~	~~NJ~~
8. 610-48-0	ANTHRACENE, 1-METHYL-	18.36	97	NJ
~~9. 57-10-3~~	~~N-HEXADECANOIC ACID~~	~~18.90~~	~~480~~	~~NJ~~
10.	UNKNOWN	19.87	110	J
11. 57-11-4	OCTADECANOIC ACID	20.74	210	NJ
12. 629-78-7	HEPTADECANE	21.90	160	NJ
13. 1454-85-9	1-HEPTADECANOL	23.47	460	NJ
14. 593-45-3	OCTADECANE	23.52	240	NJ
15. 2772-45-4	PHENOL, 2,4-BIS(1-METHYL-1-P	23.67	240	NJ
16.	UNKNOWN	23.82	130	J
17. 544-76-3	HEXADECANE	24.28	200	NJ
18. 1454-85-9	1-HEPTADECANOL	25.01	540	NJ
19. 630-06-8	HEXATRIACONTANE	27.73	300	NJ
20. 83-47-6	.GAMMA.-SITOSTEROL	29.24	240	NJ
21.	UNKNOWN	29.59	260	J
22.	UNKNOWN	29.80	180	J
23. 1058-61-3	STIGMAST-4-EN-3-ONE	30.18	160	NJ
24.	UNKNOWN	30.65	100	J
25. 559-74-0	FRIEDELIN	30.87	420	NJ
26.				
27.				
28.				
29.				
30.				

DN. ES 5/26

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CSL61

Lab Name: ENVIROSYSTEMS, INC. Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Matrix: (soil/water) SOIL Lab Sample ID: 00041170

Sample wt/vol: 30.0 (g/mL) G Lab File ID: H73GB706

Level: (low/med) LOW Date Received: 04/22/00

% Moisture: 24 Decanted: (Y/N) N Date Extracted:04/26/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/04/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.0 Extraction: (Type) SONC

Number TICs found: 2

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
~~1. 123-42-2~~	~~2-PENTANONE, 4-HYDROXY-4-MET~~	~~4.21~~	~~1400~~	~~NJ~~
~~2. 57-10-3~~	~~N-HEXADECANOIC ACID~~	~~18.87~~	~~120~~	~~NJ~~
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CSL62

Lab Name: ENVIROSYSTEMS, INC. Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Matrix: (soil/water) SOIL Lab Sample ID: 00041171

Sample wt/vol: 30.0 (g/mL) G Lab File ID: H73GB746

Level: (low/med) LOW Date Received: 04/22/00

% Moisture: 18 Decanted: (Y/N) N Date Extracted:05/05/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/10/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.0 Extraction: (Type) SONC

Number TICs found: 5

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	4.03	610	J
~~2.~~	~~UNKNOWN~~	~~4.20~~	~~2000~~	~~J~~
~~3.~~	~~UNKNOWN~~	~~5.17~~	~~210~~	~~J~~
~~4. 111-77-3~~	~~ETHANOL, 2-(2-METHOXYETHOXY)~~	~~5.72~~	~~400~~	~~NJ~~
5. 6874-67-5	FARNESYL BROMIDE	28.75	200	NJ
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CSL63

Lab Name: ENVIROSYSTEMS, INC. Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Matrix: (soil/water) SOIL Lab Sample ID: 00041172

Sample wt/vol: 30.0 (g/mL) G Lab File ID: H73GB710

Level: (low/med) LOW Date Received: 04/22/00

% Moisture: 18 Decanted: (Y/N) N Date Extracted:04/26/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/04/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.0 Extraction: (Type) SONC

Number TICs found: 2

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
~~1.~~	~~UNKNOWN~~	~~4.20~~	~~1300~~	~~J~~
~~2. 57-10-3~~	~~N HEXADECANOIC ACID~~	~~10.87~~	~~140~~	~~NJ~~
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CSL64

Lab Name: ENVIROSYSTEMS, INC. Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Matrix: (soil/water) SOIL Lab Sample ID: 00041173

Sample wt/vol: 30.0 (g/mL) G Lab File ID: H73GB711

Level: (low/med) LOW Date Received: 04/22/00

% Moisture: 31 Decanted: (Y/N) N Date Extracted:04/26/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/05/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.0 Extraction: (Type) SONC

Number TICs found: 27

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		~~UNKNOWN~~	~~4.19~~	~~1500~~	~~J~~
2.		UNKNOWN	10.15	160	J
~~3.~~	~~57-10-3~~	~~N-HEXADECANOIC ACID~~	~~18.88~~	~~280~~	~~NJ~~
4.	1454-85-9	1-HEPTADECANOL	23.46	140	NJ
5.		UNKNOWN	24.21	110	J
6.		UNKNOWN	24.89	1100	J
7.		UNKNOWN	25.00	220	J
8.	520-29-6	4',5-DIHYDROXY-7-METHOXYFLAV	25.62	540	NJ
9.		UNKNOWN	25.83	180	J
10.		UNKNOWN	25.90	140	J
11.		UNKNOWN	26.20	590	J
12.		UNKNOWN	26.52	420	J
13.		UNKNOWN	27.15	110	J
14.		UNKNOWN	27.31	280	J
15.		UNKNOWN	27.86	160	J
16.		UNKNOWN	27.96	480	J
17.		UNKNOWN	28.47	160	J
18.		UNKNOWN	28.87	230	J
19.		UNKNOWN	28.92	340	J
20.	83-47-6	.GAMMA.-SITOSTEROL	29.22	320	NJ
21.	127-22-0	TARAXEROL	29.36	140	NJ
22.	1000194-64-2	4,4,6A,6B,8A,11,12,14B-OCTAM	29.62	200	NJ
23.		UNKNOWN	29.79	200	J
24.		UNKNOWN	30.16	180	J
25.		UNKNOWN	30.63	230	J
26.	559-74-0	FRIEDELIN	30.84	470	NJ
27.	22315-68-0	2,2-DIMETHYL-1,2,3,4-TETRAHY	31.14	140	NJ
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D.V.E 5/26/

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CSL65

Lab Name: ENVIROSYSTEMS, INC. Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Matrix: (soil/water) SOIL Lab Sample ID: 00041174

Sample wt/vol: 30.0 (g/mL) G Lab File ID: H73GB712

Level: (low/med) LOW Date Received: 04/22/00

% Moisture: 12 Decanted: (Y/N) N Date Extracted: 04/26/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/05/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.0 Extraction: (Type) SONC

Number TICs found: 4

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
~~1.~~	~~UNKNOWN~~	~~4.19~~	~~1100~~	~~J~~
~~2. 57-10-3~~	~~N-HEXADECANOIC ACID~~	~~18.88~~	~~200~~	~~NJ~~
3. 142-91-6	ISOPROPYL PALMITATE	19.46	97	NJ
4. 559-74-0	FRIEDELIN	30.82	140	NJ
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CSL66

Lab Name: ENVIROSYSTEMS, INC. Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Matrix: (soil/water) SOIL Lab Sample ID: 00041175

Sample wt/vol: 30.0 (g/mL) G Lab File ID: H73GB713

Level: (low/med) LOW Date Received: 04/22/00

% Moisture: 18 Decanted: (Y/N) N Date Extracted: 04/26/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/05/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.0 Extraction: (Type) SONC

Number TICs found: 6

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
~~1.~~	~~UNKNOWN~~	~~4.18~~	~~1100~~	~~J~~
~~2. 57-10-3~~	~~N-HEXADECANOIC ACID~~	~~18.88~~	~~180~~	~~NJ~~
3. 142-91-6	ISOPROPYL PALMITATE	19.46	88	NJ
4. 559-74-0	FRIEDELIN	23.46	87	NJ
5.	UNKNOWN	27.76	100	J
6. 1000154-06-7	(-)-TRICYCLO[6.2.1.0(4,11)]U	29.18	340	NJ
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CSL67

Lab Name: ENVIROSYSTEMS, INC. Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Matrix: (soil/water) SOIL Lab Sample ID: 00041176

Sample wt/vol: 30.0 (g/mL) G Lab File ID: H73GB747

Level: (low/med) LOW Date Received: 04/22/00

% Moisture: 19 Decanted: (Y/N) N Date Extracted:05/05/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/10/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.0 Extraction: (Type) SONC

Number TICs found: 30

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	4.03	530	J
~~2.~~		~~UNKNOWN~~	~~4.21~~	~~2000~~	~~J~~
3.	106-42-3	P-XYLENE	4.52	290	NJ
4.	108-38-3	BENZENE, 1,3-DIMETHYL-	4.91	300	NJ
~~5.~~	~~111-77-3~~	~~ETHANOL, 2-(2-METHOXYETHOXY)~~	~~5.72~~	~~280~~	~~NJ~~
6.	6874-67-5	FARNESYL BROMIDE	6.63	390	NJ
7.		UNKNOWN	7.10	310	J
8.		UNKNOWN	9.85	230	J
9.	91-57-6	NAPHTHALENE, 2-METHYL-	11.48	760	NJ
10.	581-42-0	NAPHTHALENE, 2,6-DIMETHYL-	12.72	340	NJ
11.	575-41-7	NAPHTHALENE, 1,3-DIMETHYL-	12.92	550	NJ
12.	569-41-5	NAPHTHALENE, 1,8-DIMETHYL-	12.96	490	NJ
13.	573-98-8	NAPHTHALENE, 1,2-DIMETHYL-	13.16	310	NJ
14.	571-61-9	NAPHTHALENE, 1,5-DIMETHYL-	13.21	180	NJ
15.	112-40-3	DODECANE	13.38	210	NJ
16.	629-62-9	PENTADECANE	13.85	210	NJ
17.	2131-42-2	NAPHTHALENE, 1,4,6-TRIMETHYL	14.29	210	NJ
18.	2245-38-7	NAPHTHALENE, 1,6,7-TRIMETHYL	14.49	200	NJ
19.	2245-38-7	NAPHTHALENE, 1,6,7-TRIMETHYL	14.98	390	NJ
20.	1689-64-1	9H-FLUOREN-9-OL	15.37	190	NJ
21.	7320-53-8	DIBENZOFURAN, 4-METHYL-	15.52	300	NJ
22.		UNKNOWN	16.16	270	J
23.	1921-70-6	PENTADECANE, 2,6,10,14-TETRA	16.23	760	NJ
24.		UNKNOWN	16.63	370	J
25.	593-45-3	OCTADECANE	17.23	250	NJ
26.	629-62-9	PENTADECANE	18.25	260	NJ
27.	610-48-0	ANTHRACENE, 1-METHYL-	18.37	330	NJ
28.	112-95-8	EICOSANE	19.23	250	NJ
29.	112-95-8	EICOSANE	20.17	280	NJ
30.	629-94-7	HENEICOSANE	26.43	600	NJ

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EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CSL68

Lab Name: ENVIROSYSTEMS, INC. Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Matrix: (soil/water) SOIL Lab Sample ID: 00041177

Sample wt/vol: 30.0 (g/mL) G Lab File ID: H73GB749

Level: (low/med) LOW Date Received: 04/22/00

% Moisture: 18 Decanted: (Y/N) N Date Extracted: 04/26/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/10/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 4.0 Extraction: (Type) SONC

Number TICs found: 26

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
~~1.~~	~~UNKNOWN~~	~~4.20~~	~~1400~~	~~J~~
2. 108-67-8	BENZENE, 1,3,5-TRIMETHYL-	6.63	93	NJ
3. 91-57-6	NAPHTHALENE, 2-METHYL-	11.47	150	NJ
4. 575-41-7	NAPHTHALENE, 1,3-DIMETHYL-	12.91	110	NJ
5. 1921-70-6	PENTADECANE, 2,6,10,14-TETRA	16.23	140	NJ
~~6. 57-10-3~~	~~N-HEXADECANOIC ACID~~	~~18.89~~	~~200~~	~~NJ~~
7. 142-91-6	ISOPROPYL PALMITATE	19.47	110	NJ
8. 54833-48-6	HEPTADECANE, 2,6,10,15-TETRA	20.16	100	NJ
9.	UNKNOWN	21.43	170	J
10. 629-97-0	DOCOSANE	21.91	420	NJ
11.	UNKNOWN	22.05	180	J
12. 112-95-8	EICOSANE	22.73	550	NJ
13. 13475-75-7	PENTADECANE, 8-HEXYL-	23.53	690	NJ
14. 629-78-7	HEPTADECANE	24.29	640	NJ
15. 629-94-7	HENEICOSANE	25.03	690	NJ
16.	UNKNOWN PAH	25.68	120	J
17.	UNKNOWN PAH	26.21	110	J
18. 629-94-7	HENEICOSANE	27.08	350	NJ
19. 630-06-8	HEXATRIACONTANE	27.73	350	NJ
20. 62016-79-9	HEPTACOSANE, 1-CHLORO-	28.35	160	NJ
21.	UNKNOWN	28.77	170	J
22. 86941-63-1	2(1H)NAPHTHALENONE, 3,5,6,7,	28.88	160	NJ
23.	UNKNOWN	28.94	260	J
24. 83-47-6	.GAMMA.-SITOSTEROL	29.24	360	NJ
25. 3386-33-2	OCTADECANE, 1-CHLORO-	29.59	140	NJ
26. 1058-61-3	STIGMAST-4-EN-3-ONE	30.18	150	NJ
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ORIGINAL

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CSL69

Lab Name: ENVIROSYSTEMS, INC. Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Matrix: (soil/water) SOIL Lab Sample ID: 00041178

Sample wt/vol: 30.0 (g/mL) G Lab File ID: H73GB750

Level: (low/med) LOW Date Received: 04/22/00

% Moisture: 20 Decanted: (Y/N) N Date Extracted: 04/26/00

Concentrated Extract Volume: 500 (uL) Date Analyzed: 05/10/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) SONC

Number TICs found: 4

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		~~UNKNOWN~~	~~4.19~~	~~1400~~	~~J~~
2.		UNKNOWN	28.92	130	J
3.		UNKNOWN	29.79	180	J
4.	559-74-0	FRIEDELIN	30.85	340	NJ
5.					
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Appendix E

Support Documentation

EPA United States Environmental Protection Agency
Contract Laboratory Program

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

SAS No. (if applicable)

Case No. 27981 ORIGINAL

1. Project Code: NF
Account Code: 2T5A03N922
Regional Information: —
Non-Superfund Program: —
Site Name: New Jersey Fireworks
City, State: Elkton, MD
Site Spill ID: E19

2. Region No.: III
Sampling Co.: MDE
Sampler (Name): [redacted]
Sampler Signature: [redacted]

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

4. Date Shipped: 4/21/2000
Carrier: FedEx
Airbill Number: 8197424449258

5. Ship To: Enviro Systems, Inc.
9200 Rumsey Road
Columbia, MD 21045
(410) 964-0330
ATTN: [redacted]

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

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

CLP Sample Numbers (from labels)	A Matrix (from Box 6) / Other	B Conc. Low Med High	C Sample Type: Comp / Grab	D Preservative (from Box 7) / Other	E RAS Analysis: VOA	BNA	Pest PCB	High only ARO/TOX	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Corresponding CLP Inorganic Sample No.	J Sampler Initials	K Field QC Qualifier (B Blank, S Spike, D Duplicate, R Rinsate, PE Performance Eval., — Not a QC Sample)
CSL45	2	L	G	1,5	X	X	X		3-303034 to 3-303045	GW-1	4/20/00 12:30	MCWW08	PR	S
CSL46	2	L	G	1,5	X	X	X		3-303046 to 3-303049	GW-2	4/20/00 10:30	MCWW01	PR	—
CSL47	2	L	G	1,5	X	X	X		3-303062 to 3-303065	GW-3	4/20/00 11:15	MCWW02	PR	—
CSL48	2	L	G	1,5	X	X	X		3-303066 to 3-303069	GW-4	4/20/00 10:45	MCWW03	PR	—
CSL49	2	L	G	1,5	X	X	X		3-303146 to 3-303149	GW-5	4/20/00 10:15	MCWW04	PR	—
CSL50	1	L	G	1,5	X	X	X		3-303070 to 3-303073	SW-1	4/20/00 12:00	MCWW05	PR	—
CSL51	1	L	G	1,5	X	X	X		3-303074 to 3-303077	SW-2	4/20/00 10:00	MCWW06	PR	—
CSL52	1	L	G	1,5	X	X	X		3-303078 to 3-303081	SW-3	4/20/00 9:45	MCWW07	PR	—
CSL53	1	L	G	1,5	X	X	X		3-303082 to 3-303085	SW-4	4/20/00 11:05	MCWW08	PR	—
CSL54	1	L	G	1,5	X	X	X		3-303086 to 3-303089	SW-5	4/20/00 13:00	MCWW09	PR	D of CSL53

Shipment for Case Complete? (Y/N): Y
Page 1 of 3
Sample(s) to be Used for Laboratory QC: Dup QC on CSL45
Additional Sampler Signatures: [signature]
Chain of Custody Seal Number(s): —

CHAIN OF CUSTODY RECORD

Relinquished by (Signature)	Date / Time	Received by (Signature)	Relinquished by (Signature)	Date / Time	Received by (Signature)
[signature]	4/21/00 1500				
Relinquished by (Signature)	Date / Time	Received by (Signature)	Relinquished by (Signature)	Date / Time	Received by (Signature)
Relinquished by (Signature)	Date / Time	Received for Laboratory by (Signature)	Date / Time	Remarks: Is custody seal intact? Y N none	

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

EPA Form 9110-2

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

35799

EPA United States Environmental Protection Agency
Contract Laboratory Program

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

SAS No. (if applicable):

Case No.: 27981

1. Project Code	Account Code	2. Region No.	Sampling Co.	4. Date Shipped	Carrier
NF	2TSA03N9ZZ	III	MDE	4/21/2000	FedEx

Regional Information: —

Sampler (Name): [redacted]

Airbill Number: 819742449258

Non-Superfund Program: —

Sampler Signature: [redacted]

5. Ship To: EnviroSystems, Inc, 9200 Rumsey Road, Columbia, MD 21045, (410) 964-0330, ATTN: [redacted]

Site Name: New Jersey Firewoods

City, State: Elkton, MD

Site Spill ID: E19

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

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

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

CLP Sample Numbers (from labels)	A Matrix (from Box 6) Other	B Conc. Low Med High	C Sample Type: Comp./Grab	D Preservative (from Box 7) Other	E RAS Analysis VOA	BNA	Pest/PCB	High only ARO/TOX	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Corresponding CLP Inorganic Sample No.	J Sampler Initials	K Field QC Qualifier (B = Blank, S = Spike, D = Duplicate, R = Rinsate, PE = Perform Eval, — = Not a QC Sample)
CSL55	5	L	G	6	X	X	X		3-3031090 to 3-3031092	SED-1	4/20/00 12:00	~~CSL55~~ MCWW10	PR	—
CSL56	5	L	G	6	X	X	X		3-3031093 to 3-3031095	SED-2	4/20/00 10:00	MCWW11	PR	—
CSL57	5	L	G	6	X	X	X		3-3031097 to 3-3031099	SED-3	4/20/00 9:45	MCWW12	PR	—
CSL58	5	L	G	6	X	X	X		3-3031101 to 3-3031103	SED-4	4/20/00 11:05	MCWW13	PR	—
~~CSL59~~	~~5~~	~~L~~	~~G~~	~~6~~	~~X~~	~~X~~	~~X~~		~~3-3031104 to 3-3031106~~	~~SED-5~~		~~MCWW14~~		~~D of CSL56~~
CSL60	5	L	G	6	X	X	X		3-3031107 to 3-3031109	S-1	4/20/00 12:45	MCWW15	PR	—
CSL61	5	L	G	6	X	X	X		3-3031110 to 3-3031112	S-2	4/21/00 0845	MCWW16	PR	—
CSL62	5	L	G	6	X	X	X		3-3031113 to 3-3031118	S-3	4/21/00 0830	MCWW17	PR	S
CSL63	5	L	G	6	X	X	X		3-3031119 to 3-3031121	S-4	4/21/00 0900	MCWW18	PR	—
CSL65	5	L	G	6	X	X	X		3-3031122 to 3-3031124	S-5	4/20/00 10:05	MCWW19	PR	—

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

Page: 2 of 3

Sample(s) to be Used for Laboratory QC: Do QC on CSL 62

Additional Sampler Signatures: [signature]

Chain of Custody Seal Number(s):

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[signature]	4/21/2000 1500				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks: Is custody seal intact? Y/N none	

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

EPA Form 9110-2

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

355998

EPA United States Environmental Protection Agency Contract Laboratory Program

Organic Traffic Report & Chain of Custody Record

(For Organic CLP Analysis)

SAS No. (if applicable):

Case No.: 27981

1. Project Code: NF
Account Code: 2T5A03N9E2
2. Region No.: III
Sampling Co.: MDE
4. Date Shipped: 4/21/2000
Carrier: Fed Ex

Regional Information: —

Sampler (Name): [redacted]

Airbill Number: 8197424492 58

Non-Superfund Program: —

Sampler Signature: [redacted]

5. Ship To: Enviro Systems, Inc. 9200 Rumsey Road Columbia, MD 21045 (410) 964-0330
ATTN: [redacted]

Site Name: New Jersey Fireworks

City, State: Elkton, MD

Site Spill ID: E19

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

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

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

CLP Sample Numbers (from labels)	A Matrix (from Box 6) / Other	B Conc. Low Med High	C Sample Type: Comp./Grab	D Preservative (from Box 7) / Other	E RAS Analysis: VOA	BNA	Pest/PCB	High only / ARO/TOX	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Corresponding CLP Inorganic Sample No.	J Sampler Initials	K Field QC Qualifier (B - Blank, S - Spike, D - Duplicate, R - Rinsate, PE - Perform. Eval., - Not a QC Sample)
CSL 65	5	L	G	5	X	X	X		3-303/125 to 3-303/127	S-6	4/21/00 9:25	MCWW 20	PR	—
CSL 66	5	L	G	5	X	X	X		3-303/128 to 3-303/130	S-7	4/21/00 9:50	MCWW 21	RR	—
CSL 67	5	L	G	5	X	X	X		3-303/131 to 3-303/133	S-8	4/21/00 9:40	MCWW 22	PR	—
CSL 68	5	L	G	5	X	X	X		3-303/134 to 3-303/136	S-9	4/21/00 9:45	MCWW 23	PR	—
CSL 69	5	L	G	5	X	X	X		3-303/137 to 3-303/139	S-10	4/21/00 9:00	MCTT 34	PR	Dup of CSL 63
~~CSL 70~~	~~5~~ 4	L	G	5	X	X	X		~~3-303/140 to 3-303/143~~	~~FB-1~~		~~MCTT 42~~		~~B~~
CSL 71	4	L	G	5	X				3-303/144 to 3-303/145	TB-1	4/20/00 1045	—	AW	B
CSL 70	4	L	G	5	X	X	X		3-303/140 to 3-303/143	FB-1	4/21/00 1444	MCTT 42	AW	B

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

Page 3 of 3

Sample(s) to be Used for Laboratory QC:

Additional Sampler Signatures:

Chain of Custody Seal Number(s):

CHAIN OF CUSTODY RECORD

Relinquished by (Signature)	Date / Time	Received by (Signature)	Relinquished by (Signature)	Date / Time	Received by (Signature)
	4/21/2000 1500				
Relinquished by (Signature)	Date / Time	Received by (Signature)	Relinquished by (Signature)	Date / Time	Received by (Signature)
Relinquished by (Signature)	Date / Time	Received for Laboratory by (Signature)	Date / Time	Remarks: Is custody seal intact? Y N none	

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

EPA Form 9110-2

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*SEE REVERSE FOR PURPOSE CODE DEFINITIONS

35[illegible]98

EPA United States Environmental Protection Agency
Contract Laboratory Program

Organic Traffic Report & Chain of Custody Record

(For Organic CLP Analysis)

SAS No. (if applicable)

Case No. 27981

1. Project Code	Account Code	2. Region No.	Sampling Co.	4. Date Shipped	Carrier
NF	2T5A03N922	III	MDE	4/24/00	~~Fedex~~ Hand-Delivered AS 4/24/00

Regional Information: —

Sampler (Name): [redacted]

Airbill Number: ~~8197[illegible]~~ None AS 4/24/00

Non-Superfund Program: —

Sampler Signature: [redacted]

5. Ship To: EnviroSystems Inc. 9200 Rumsey Road Columbia, MD 21045 (410) 964-0330, 1

ATTN: [redacted]

Site Name: New Jersey Fireworks

City, State: Elkton, MD

Site Spill ID: E19

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

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

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

CLP Sample Numbers (from labels)	A Matrix (from Box 6) Other	B Conc.: Low Med High	C Sample Type: Comp./Grab	D Preservative (from Box 7) Other	E RAS Analysis: VOA	BNA	Pest/PCB	High only ARO/TOX	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Corresponding CLP Inorganic Sample No	J Sampler Initials	K Field QC Qualifier (B - Blank, S - Spike, D - Duplicate, R - Rinsate, PE - Perform Eval, — - Not a QC Sample)
CSL65	5	L	G	5	X				3-3031125 to 3-3031126	S-6	4/21/00 9:25	MCWW20	PR	—

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

Page: 1 of 1

Sample(s) to be Used for Laboratory QC:

Additional Sampler Signatures: [signature]

Chain of Custody Seal Number(s):

CHAIN OF CUSTODY RECORD

Relinquished by (Signature)	Date / Time	Received by (Signature)	Relinquished by (Signature)	Date / Time	Received by (Signature)
[signature]	4/24/00 1100				
Relinquished by (Signature)	Date / Time	Received by (Signature)	Relinquished by (Signature)	Date / Time	Received by (Signature)
Relinquished by (Signature)	Date / Time	Received for Laboratory by (Signature)	Date / Time	Remarks: Is custody seal intact? Y/N none	

A21-012.3 REV. 1/93

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EPA Form 9110-2

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*SEE REVERSE FOR PURPOSE CODE DEFINITIONS

355933

MDE

MARYLAND DEPARTMENT OF THE ENVIRONMENT

2500 Broening Highway • Baltimore, Maryland 21224
(410) 631-3000 • 1-800-633-6101 • http:// www. mde. state. md. us

Parris N. Glendening
Governor

Jane T. Nishid
Secretary

April 26, 2000

[redacted]
EnviroSystems, Inc.
9200 Rumsey Road
Columbia, MD 21045

Re: Paperwork Error on Region III Case #27981
Federal Express Shipment on 4/21/00, Airbill #819742449269

Dear [redacted]

On April 21, 2000, an error was made on the Organic Traffic Report & Chain of Custody Records (Form Number 355996). The soil samples to be analyzed for volatile organics for Sample Number CSL65 were not enclosed in the shipment cooler. However, these soil samples were hand delivered to your laboratory on April 24, 2000 under Organic Traffic Report & Chain of Custody Record Form Number 355933.

Please feel free to contact John Kwedar, Region III Sample Control Center Coordinator, at (410) 305-3021 for any questions.

Sincerely,

Alan W. Fong, Project Manager
Site and Brownfields Assessments/State
Superfund Division

AWF:cp

cc: Mr. [redacted]
Mr.
Mr.
Ms.
Mr.
Mr. Art O'Connell

Lab apparently analyzed CSL65 VOAs using extractable aliquot of CSL65 which the lab received on 4-22-00. VOAs for CSL65 were analyzed 4-22-00. Missing VOA aliquot of CSL64 was not deliv to lab until 4-24-00: April 2' 2000.

[redacted]
ESAT Auditor
5-18-00

ENVIROSYSTEMS, INC.

9200 Rumsey Road • Suite B102 • Columbia, Maryland 21045-1934
Phone (410) 964-0330 • Fax (410) 740-9306
Email: info@envsystems.com • Webpage: www.envsystems.com/envsys

June 1, 2000

[redacted]
CLP Technical Project Officer
US EPA, Environmental Science Center
701 Mapes Road
Fort Meade, MD 20755-5350

Dear [redacted]

I am writing to you in response to the comments on the CSF inventory checklist dated May 25, 2000, received on May 29, 2000 for Case 27981, SDG CSL55.

The VOA aliquot of sample CSL65 was missing from the cooler received on 4/22/00. The sample was hand delivered to laboratory on 4/24/00. Documentation of the samplers paperwork error can be found in the SDG File section of the report on page 997.

Forms 1A, 1B and 1F have the incorrect date received (4/22/00 instead of 4/24/00) but the analysis date is correct as reported (4/25/00). The comments section of the EPA Region III inventory checklist indicates that sample CSL65 was analyzed on 4/22/00 and speculates that the laboratory has used an extractables aliquot of the sample for analysis. In fact, the volatiles analysis of sample CSL65 was performed on 4/25/00 and is accurately documented on Forms 1A, 1B, 1F, 4A, 5A, and 8A as well as the sample chromatogram, quantitation report and injection logbook. Enclosed please find copies of the above referenced forms. Please note that the received date has been corrected on the enclosed Form 1A, 1B and 1F as resubmittals.

Please do not hesitate to call if you have any questions, comments, or require additional information.

Sincerely,

[redacted]

[redacted]
President/CEO

CC: DynCorp

Validate

[redacted]

Name: [redacted]

Contact Recv'd Via: ☑ Phone ☐ Fax ☐ Vmail ☐ Memo ☐ Other

Date/Time of Contact: 05/01/2000 11:30 AM

Contact/Org./Phone # [redacted] Envirosystems, Inc./ (410) 964-0330

Initiated By: ☐ EPA ☐ CLASS ☐ Engr. Contr. ☑ Lab ☐ Region ☐ SCC ☐ Other

Type of Inquiry: TR Tracking

Lab: ENVSYS **Contract #:** W99023 **Case #:** 27981 **SDG:** **Region:** 3

SOW: **Affected Samples:** CSL64, CSL65 **Invoice #:**

Discussion/Issue:

5/1/00 11:30 AM [redacted] ENVSYS, reported to CLASS the TR/COC listed sample CSL65 twice. Sample CSL64 was received but not listed on the TR/COC.

5/1/00 12:00 AM CLASS relayed the above issue to John Kwedar, RSCC Region 3.

Resolution:

5/3/00 9:00 AM Per the Region, sample CSL64 should be added to the TR/COC. This issue should be noted in the case narrative and the lab should proceed with analysis.

CLPAS Notification: Yes **Completed Date/Time:** 05/17/2000 2:00 PM

Related ROCs: **Date/Time:** **W.A.#:** ST&R

Distribution: ◉ Lab ◉ Region ◉ CLASS ○ AOC ○ Work Assign. Man.

PAGE _____

BUSINESS CONTACT RECORD

DATE _____ TIME _____ TELEPHONE _____ MEETING _____

CONTACT ORIGINATOR (Name/Organization)

[redacted] (703) 264-9312

CONTACTED (Name/Organization)

SUBJECT Case 27981

TEXT Sample is CSL64 is listed as CSL65 on COC but is correct on Sample and Sample tag

COPIES TO:

PREPARED BY:

11 1996

ENVIROSYSTEMS, INC.

SAMPLE LOG-IN SHEET

Lab Name: Envirosystems

Page 1 of 1

Received By (Print Name): [redacted]

Log-in Date: 4/22/00

Received By (Signature): [redacted]

Case Number: 27981

Sample Delivery Group No.: CSL55

SAS Number:

REMARKS:

1. Custody Seal(s) — Present/Absent* Intact/Broken
2. Custody Seal Nos.:
3. Chain-of-Custody Records — Present/Absent*
4. Traffic Reports or Packing List — Present/Absent*
5. Airbill — Airbill/Sticker Present/Absent*
6. Airbill No.: 819742449258
7. Sample Tags — Present/Absent*
   Sample Tag Numbers — Listed/Not Listed on Chain-of-Custody
8. Sample Condition: Intact/Broken*/Leaking
9. Does information on custody records, traffic reports, and sample tags agree? Yes/No*
10. Date Received at Lab: 4/22/00
11. Time Received: 1100

Sample Transfer

Previous: _____ _____

Area #: _____ _____

By: _____ _____

On: _____ _____

EPA SAMPLE #	CORRESPONDING SAMPLE TAG #	CORRESPONDING ASSIGNED LAB #	REMARKS: CONDITION OF SAMPLE SHIPMENT, ETC.
CSL55	3-3031090-92	00041165	Cooler Temp 3° C
CSL56	3-3031093-5	1166	
CSL57	3-3031097-99	1167	
CSL58	3-3031101-03	1168	
CSL60	3-3031107-09	1169	
CSL61	3-3031110-12	1170	
CSL62	3-3031113-18	1171	
CSL63	3-3031119-21	1172	
CSL64	3-3031122-24	1173	
CSL65	3-3031127-[redacted]	1174	
CSL66	3-3031128-30	1175	
CSL67	3-3031131-33	1176	
CSL68	3-3031134-36	1177	
CSL69	3-3031137-39	1178	

* Contact SMO and attach record of resolution

Reviewed By: _____

Date: _____

Logbook No.: _____

Logbook Page No.: _____

FORM DC-1

11994

SAMPLE LOG-IN SHEET

Lab Name: Envirosystems

Page 1 of 1

Received By (Print Name): [redacted]

Log-in Date: 4/24/00

Received By (Signature): [redacted]

Case Number: 27981

Sample Delivery Group No.: CSL55

SAS Number:

REMARKS:

1. Custody Seal(s) — Present/Absent* Intact/Broken
2. Custody Seal Nos.:
3. Chain-of-Custody Records — Present/Absent*
4. Traffic Reports or Packing List — Present/Absent*
5. Airbill — Airbill/Sticker Present/Absent*
6. Airbill No.: Delivered by hand from sampler
7. Sample Tags — Present/Absent*
   Sample Tag Numbers — Listed/Not Listed on Chain-of-Custody
8. Sample Condition: Intact/Broken*/Leaking
9. Does information on custody records, traffic reports, and sample tags agree? Yes/No*
10. Date Received at Lab: 4/24/00
11. Time Received: 1130 am

Sample Transfer

Previous: _____ _____

Area #: _____ _____

By: _____ _____

On: _____ _____

EPA SAMPLE #	CORRESPONDING SAMPLE TAG #	CORRESPONDING ASSIGNED LAB #	REMARKS: CONDITION OF SAMPLE SHIPMENT, ETC.
CSL65	3-3031125-26	00041174	Cooler Temp 3°C

* Contact SMO and attach record of resolution

Reviewed By: _____

Date: _____

Logbook No.: _____

Logbook Page No: _____

FORM DC-1

0. 11995

SDG NARRATIVE

LABORATORY NAME: ENVIROSYSTEMS, INC.

CASE #: 27981 SDG #: CSL45 REGION: III

CONTRACT: 68-W9-9023

DATE SAMPLES RECEIVED AT LABORATORY: 22 APRIL 2000

SAMPLE ANALYSES INCLUDED IN THIS REPORT:

EPA SAMPLE #	LAB ID #	ANALYSIS	MATRIX	VOA pH
CSL45	00041153	VOA, BNA, PEST	WATER	2
CSL46	00041154	VOA, BNA, PEST	WATER	2
CSL47	00041155	VOA, BNA, PEST	WATER	2
CSL48	00041156	VOA, BNA, PEST	WATER	2
CSL49	00041157	VOA, BNA, PEST	WATER	2
CSL50	00041158	VOA, BNA, PEST	WATER	2
CSL51	00041159	VOA, BNA, PEST	WATER	2
CSL52	00041150	VOA, BNA, PEST	WATER	2
CSL53	00041161	VOA, BNA, PEST	WATER	2
CSL54	00041162	VOA, BNA, PEST	WATER	2
CSL70	00041163	VOA, BNA, PEST	WATER	2
CSL71	00041164	VOA	WATER	2

Matrix spike/matrix spike duplicate (MS/MSD) analysis was performed on sample CSL45.

Samples for this contract are analyzed by EPA SOW OLM04.2 for multi-media, multi-concentration organics.

VOLATILES SECTION:

The volatile analysis was performed using a Finnigan 5100 GC/MS with a Restek 105 meter RTX-502.2 column, an inner diameter of 0.53 mm and a 3 micron film thickness. The trap used with the autosampler is a 30 cm Supelco, Inc. K Trap (VOCARB 3000) packed with Carbopack B/Carboxen 1000 & 1001.

All QC criteria was met for all samples in this SDG.

Each of ten MS/MSD recoveries and each of the five MS/MSD RPD values were within the EPA advisory QC limits.

SEMIVOLATILES SECTION:

The semi-volatile analysis was performed using a Hewlett Packard HP5973A MSD with an HP-5MS 30 meter column with an inner diameter of 0.25 mm and a 0.5 micron film thickness.

Samples CSL49, CSL51, CSL52, CSL53 and CSL54 had noncompliant surrogate recoveries. Each analysis had more than one base-

neutral surrogate recovery below the QC limits. Insufficient sample was received to perform reextraction.

All other QC criteria was met for all samples in this SDG.

Each of eighteen MS/MSD recoveries and each of the nine MS/MSD RPD values were within the EPA advisory QC limits.

PESTICIDE/AROCLOR SECTION:

The primary analytical column was an RTXCLP 30m, 0.53mm ID, 0.25 micron film thickness. Confirmation analysis was performed using an RTXCLP2 30m, 0.53 mm ID, 0.25 micron film thickness GC column.

Sample CSL45 had TCX and DCB surrogate recoveries below the EPA advisory QC limits. Samples CSL49, CSL50, CSL53 and CSL54 had DCB surrogate recovery slightly below the QC limit on at least one of the analytical columns

All other QC criteria was met for all samples in this SDG.

Endrin recovery was below the EPA advisory QC limit in both the MS and MSD analyses. All of the other MS/MSD recoveries were with in the QC criteria. Each of the six MS/MSD RPD values was within the EPA advisory QC limits.

I CERTIFY THAT THIS DATA PACKAGE IS IN COMPLIANCE WITH THE TERMS AND CONDITIONS OF THE CONTRACT, BOTH TECHNICALLY AND FOR COMPLETENESS, FOR OTHER THAN THE CONDITIONS DETAILED ABOVE. RELEASE OF THE DATA CONTAINED IN THIS HARDCOPY DATA PACKAGE HAS BEEN AUTHORIZED BY THE LABORATORY MANAGER OR HIS DESIGNEE, AS VERIFIED BY THE FOLLOWING SIGNATURE:

[redacted] DATE: 5/12/00

Organics Section Manager 12 May 2000

SDG NARRATIVE

LABORATORY NAME: ENVIROSYSTEMS, INC.

CASE #: 27981 SDG #: CSL55 REGION: III

CONTRACT: 68-W9-9023

DATE SAMPLES RECEIVED AT LABORATORY: 22 APRIL 2000

SAMPLE ANALYSES INCLUDED IN THIS REPORT:

EPA SAMPLE #	LAB ID #	ANALYSIS	MATRIX	VOA pH
CSL55	00041165	VOA, BNA, PEST	SOIL	n/a
CSL56	00041166	VOA, BNA, PEST	SOIL	n/a
CSL57	00041167	VOA, BNA, PEST	SOIL	n/a
CSL58	00041168	VOA, BNA, PEST	SOIL	n/a
CSL60	00041169	VOA, BNA, PEST	SOIL	n/a
CSL60RE	00041169	VOA	SOIL	n/a
CSL61	00041170	VOA, BNA, PEST	SOIL	n/a
CSL62	00041171	VOA, BNA, PEST	SOIL	n/a
CSL63	00041172	VOA, BNA, PEST	SOIL	n/a
CSL64	00041173	VOA, BNA, PEST	SOIL	n/a
CSL65	00041174	VOA, BNA, PEST	SOIL	n/a
CSL66	00041175	VOA, BNA, PEST	SOIL	n/a
CSL67	00041176	VOA, BNA, PEST	SOIL	n/a
CSL67RE	00041176	VOA	SOIL	n/a
CSL68	00041177	VOA, BNA, PEST	SOIL	n/a
CSL69	00041178	VOA, BNA, PEST	SOIL	n/a

Matrix spike/matrix spike duplicate (MS/MSD) analysis was performed on sample CSL62.

Samples for this contract are analyzed by EPA SOW OLM04.2 for multi-media, multi-concentration organics.

VOLATILES SECTION:

The volatile analysis was performed using a Finnigan 5100 GC/MS with a Restek 105 meter RTX-502.2 column, an inner diameter of 0.53 mm and a 3 micron film thickness. The trap used with the autosampler is a 30 cm Supelco, Inc. K Trap (VOCARB 3000) packed with Carbopack B/Carboxen 1000 & 1001.

Samples CSL60 and CSL67 required reanalysis due to low internal standard areas. The reanalysis of each sample had similarly low internal standard areas and both sets of data for each sample are included in this report.

The aqueous holding blank was analyzed as a soil sample using heated purge since only soil samples were contained in this SDG.

All other QC criteria was met for all samples in this SDG.

Each of ten MS/MSD recoveries and each of the five MS/MSD RPD values were within the EPA advisory QC limits.

SEMIVOLATILES SECTION:

The semi-volatile analysis was performed using a Hewlett Packard HP5973A MSD with an HP-5MS 30 meter column with an inner diameter of 0.25 mm and a 0.5 micron film thickness.

Samples CSL60, CSL62 and CSL67 required reextraction due to noncompliant surrogate recoveries. The second extraction and analysis produced compliant surrogate recoveries and only the data from the reextracted samples is included in this report. The reextractions were performed outside of the required holding time.

All other QC criteria was met for all samples in this SDG.

Two of eighteen MS/MSD recoveries were outside the EPA advisory QC limits. Each of the nine MS/MSD RPD values were within the EPA advisory QC limits.

PESTICIDE/AROCLOR SECTION:

The primary analytical column was an RTXCLP 30m, 0.53mm ID, 0.25 micron film thickness. Confirmation analysis was performed using an RTXCLP2 30m, 0.53 mm ID, 0.25 micron film thickness GC column.

Samples CSL66 and CSL68 had TCX and DCB surrogate recoveries below the EPA advisory Qc limits. Sample CSL67 had DCB surrogate recovery slightly below the QC limit on the RTXCLP column only.

All other QC criteria was met for all samples in this SDG.

Each of twelve MS/MSD recoveries and each of the six MS/MSD RPD values were within the EPA advisory QC limits.

I CERTIFY THAT THIS DATA PACKAGE IS IN COMPLIANCE WITH THE TERMS AND CONDITIONS OF THE CONTRACT, BOTH TECHNICALLY AND FOR COMPLETENESS, FOR OTHER THAN THE CONDITIONS DETAILED ABOVE. RELEASE OF THE DATA CONTAINED IN THIS HARDCOPY DATA PACKAGE HAS BEEN AUTHORIZED BY THE LABORATORY MANAGER OR HIS DESIGNEE, AS VERIFIED BY THE FOLLOWING SIGNATURE:

[redacted] DATE: 5/12/00

Organics Section Manager 12 May 2000

TABLE I

ENVIRONMENTAL PROTECTION AGENCY REGION III
CALIBRATION OUTLIERS
VOLATILE COMPOUNDS

CASE/DAS NO 27981 CONTRACTOR ESAT

Instrument# F5100B	Init. Cal			Cont. Cal.			Cont. Cal.			Cont. Cal.			Cont. Cal		
DATE/TIME	04/25/2000 1037			04/25/2000 1256			04/26/2000 0847								
	RF	%RSD	*	RF	%D	*	RF	%D	*	RF	%D	*	RF	%D	*
Dichlorodifluoromethane															
Chloromethane															
Vinyl chloride															
Bromomethane															
Chloroethane															
Trichlorofluoromethane															
1,1-Dichloroethene															
1,1,2-Trichloro-1,2,2-trifluoroethane															
Acetone															
Carbon disulfide															
Methyl Acetate															
Methylene chloride															
trans-1,2-Dichloroethene															
Methyl tert-Butyl Ether															
1,1-Dichloroethane															
cis-1,2-Dichloroethene															
2-Butanone															
Chloroform															
1,1,1-Trichloroethane															
Cyclohexane															
Carbon Tetrachloride															
Benzene															
1,2-Dichloroethane															
Trichloroethene															
Methylcyclohexane															
1,2-Dichloropropane															
Bromodichloromethane															
cis-1,3-Dichloropropene															
4-Methyl-2-pentanone		34.7	I					-26.3	C						
Toluene															
trans-1,3-Dichloropropene															
1,1,2-Trichloroethane															
Tetrachloroethene															
2-Hexanone		41.9	I		-30.8	C		-34.6	C						
Dibromochloromethane															
1,2-Dibromoethane															
Chlorobenzene															
Ethylbenzene															
Xylene (total)															
Styrene															
Bromoform															
Isopropylbenzene															
1,1,2,2-Tetrachloroethane															
1,3-Dichlorobenzene															
1,4-Dichlorobenzene															
1,2-Dichlorobenzene															
1,2-Dibromo-3-Chloropropane															
1,2,4-Trichlorobenzene															

AFFECTED SAMPLES	ALL SAMPLES ON THIS PAGE	VBLKBO	VBLKBP
		CSL45	CSL53
		CSL45MS	CSL54
		CSL45MSD	CSL70
		CSL46 CSL50	CSL71
		CSL47 CSL51	VHBLKBP
Reviewer		CSL48 CSL52	
Initials/Date DWG 03/30/00		CSL49	

TABLE I

ENVIRONMENTAL PROTECTION AGENCY REGION III
CALIBRATION OUTLIERS
VOLATILE COMPOUNDS

CASE/DAS NO. 27981 CONTRACTOR ESAT

Instrument# F5100C	Init. Cal			Cont. Cal.			Cont. Cal.			Cont. Cal.			Cont Cal		
DATE/TIME:	04/24/2000 0915			04/25/2000 0910			04/26/2000 0843								
	RF	%RSD	*	RF	%D	*	RF	%D	*	RF	%D	*	RF	%D	*
Dichlorodifluoromethane															
Chloromethane					-30.0	C		-29.8	C						
Vinyl chloride															
Bromomethane															
Chloroethane															
Trichlorofluoromethane															
1,1-Dichloroethene		31.9	I												
1,1,2-Trichloro-1,2,2-trifluoroethane								-27.6	C						
Acetone					-43.7	C		-40.9	C						
Carbon disulfide															
Methyl Acetate															
Methylene chloride		25.1	I		-28.4	C		-26.6	C						
trans-1,2-Dichloroethene															
Methyl tert-Butyl Ether															
1,1-Dichloroethane															
cis-1,2-Dichloroethene															
2-Butanone					-35.5	C		-27.1	C						
Chloroform															
1,1,1-Trichloroethane															
Cyclohexane															
Carbon Tetrachloride															
Benzene															
1,2-Dichloroethane															
Trichloroethene															
Methylcyclohexane															
1,2-Dichloropropane															
Bromodichloromethane															
cis-1,3-Dichloropropene															
4-Methyl-2-pentanone															
Toluene															
trans-1,3-Dichloropropene															
1,1,2-Trichloroethane															
Tetrachloroethene															
2-Hexanone															
Dibromochloromethane															
1,2-Dibromoethane															
Chlorobenzene															
Ethylbenzene															
Xylene (total)															
Styrene															
Bromoform															
Isopropylbenzene															
1,1,2,2-Tetrachloroethane															
1,3-Dichlorobenzene															
1,4-Dichlorobenzene															
1,2-Dichlorobenzene															
1,2-Dibromo-3-Chloropropane															
1,2,4-Trichlorobenzene															

AFFECTED SAMPLES:

ALL SAMPLES ON THIS PAGE

VBLKCO
CSL62MS
CSL62MSD
CSL55 CSL61
CSL56 CSL62
CSL57 CSL63
CSL58 CSL64
CSL60 CSL65
VBLKCP
CSL66
CSL67
CSL68
CSL69
CSL60RE
CSL67RE
VHBLKCP

Reviewer Initials/Date DWG / 03/30/00

TABLE I

ENVIRONMENTAL PROTECTION AGENCY REGION III
CALIBRATION OUTLIERS
SEMIVOLATILE COMPOUNDS

CASE DAS NO 27981 CONTRACTOR ESAT

Instrument#	HP73G	Init Cal			Cont Cal			Cont Cal.			Cont Cal			Cont Cal		
DATE/TIME		05/01/2000 0947			05/02/2000 1130			05/03/2000 1056								
		RF	%RSD	*	RF	%D	*	RF	%D	*	RF	%D	*	RF	%D	*
Benzaldehyde																
Phenol																
bis(2-Chloroethyl) ether																
2-Chlorophenol																
2-Methylphenol																
2,2'-oxybis(2-Chloropropane)																
Acetophenone																
4-Methylphenol																
N-Nitroso-di-n-propylamine																
Hexachloroethane																
Nitrobenzene																
Isophorone																
2-Nitrophenol																
2,4-Dimethylphenol																
bis(2-Chloroethoxy)methane																
2,4-Dichlorophenol																
Naphthalene																
4-Chloroaniline			35.4	I		-36.6	C									
Hexachlorobutadiene																
Caprolactam																
4-Chloro-3-methylphenol																
2-Methylnaphthalene																
Hexachlorocyclopentadiene																
2,4,6-Trichlorophenol																
2,4,5-Trichlorophenol																
1,1'-Biphenyl																
2-Chloronaphthalene																
2-Nitroaniline																
Dimethylphthalate																
2,6-Dinitrotoluene																
Acenaphthylene																
3-Nitroaniline		0.035	106.7	FI	0.009	-74.3	FC	0.044	25.7	FC						
Acenaphthene																
2,4-Dinitrophenol									-28.4	C						
4-Nitrophenol																
Dibenzofuran																
2,4-Dinitrotoluene																
Diethylphthalate																
Fluorene																
4-Chlorophenyl-phenyl ether																
4-Nitroaniline									53.3	C						
4,6-Dinitro-2-methylphenol																
N-Nitrosodiphenylamine																
4-Bromophenyl-phenylether																
Hexachlorobenzene																
Atrazine																
Pentachlorophenol																
Phenanthrene																

AFFECTED SAMPLES

ALL SAMPLES ON THIS PAGE

SBLK92
CSL45
CSL45MS
CSL45MSD
CSL46
CSL47

CSL48 CSL70
CSL49
CSL50
CSL51
CSL52
CSL53
CSL54

Reviewer
Initials/Date DWG - 03/30/00

TABLE I

ENVIRONMENTAL PROTECTION AGENCY REGION III
CALIBRATION OUTLIERS
SEMIVOLATILE COMPOUNDS

CASE/DAS NO 27981 CONTRACTOR ESAT

Instrument#	HP73G	Init. Cal			Cont. Cal.			Cont Cal			Cont. Cal			Cont Cal.		
DATE/TIME		05/01/2000 0947			05/02/2000 1130			05/03/2000 1056								
		RF	%RSD	*	RF	%D	*	RF	%D	*	RF	%D	*	RF	%D	*
Anthracene																
Carbazole			52.5	I												
Di-n-butylphthalate																
Fluoranthene																
Pyrene																
Butylbenzylphthalate																
3,3'-Dichlorobenzidine									32.5	C						
Benzo(a)anthracene																
Chrysene																
bis(2-Ethylhexyl)phthalate																
Di-n-octylphthalate																
Benzo(b)fluoranthene																
Benzo(k)fluoranthene																
Benzo(a)pyrene																
Indeno(1,2,3-cd)pyrene																
Dibenzo(a,h)anthracene									28.0	C						
Benzo(g,h,i)perylene									29.9	C						
AFFECTED SAMPLES		ALL SAMPLES ON THIS PAGE			SBLK92			CSL48	CSL70							
					CSL45			CSL49								
					CSL45MS			CSL50								
					CSL45MSD			CSL51								
					CSL46			CSL52								
Reviewer					CSL47			CSL53								
Initials/Date	DWG / 03/30/00							CSL54								

ENVIRONMENTAL PROTECTION AGENCY REGION III
CALIBRATION OUTLIERS
SEMIVOLATILE COMPOUNDS

CASE/DAS NO. 27981 CONTRACTOR ESAT

Instrument# HP73G	Int. Cal			Cont. Cal.			Cont. Cal			Cont. Cal			Cont. Cal		
DATE/TIME	05/03/2000 0947			05/04/2000 1434			05/05/2000 0934			05/10/2000 1042					
	RF	%RSD	*	RF	%D	*	RF	%D	*	RF	%D	*	RF	%D	*
Benzaldehyde					74.1	C		88.6	C						
Phenol								32.3	C		26.1	C			
bis(2-Chloroethyl) ether															
2-Chlorophenol															
2-Methylphenol															
2,2'-oxybis(1-Chloropropane)											31.9	C			
Acetophenone															
4-Methylphenol															
N-Nitroso-di-n-propylamine															
Hexachloroethane															
Nitrobenzene															
Isophorone															
2-Nitrophenol															
2,4-Dimethylphenol															
bis(2-Chloroethoxy)methane															
2,4-Dichlorophenol															
Naphthalene															
4-Chloroaniline		35.4	I								-30.1	C			
Hexachlorobutadiene															
Caprolactam															
4-Chloro-3-methylphenol															
2-Methylnaphthalene											32.2	C			
Hexachlorocyclopentadiene															
2,4,6-Trichlorophenol															
2,4,5-Trichlorophenol															
1,1'-Biphenyl															
2-Chloronaphthalene															
2-Nitroaniline								25.4	C						
Dimethylphthalate															
2,6-Dinitrotoluene															
Acenaphthylene															
3-Nitroaniline	0.0035	106.7	FI	0.0017	-51.4	FC		165.7	C		188.6	C			
Acenaphthene															
2,4-Dinitrophenol											-35.4	C			
4-Nitrophenol															
Dibenzofuran															
2,4-Dinitrotoluene															
Diethylphthalate															
Fluorene															
4-Chlorophenyl-phenyl ether															
4-Nitroaniline								57.6	C		35.8	C			
4,6-Dinitro-2-methylphenol															
N-Nitrosodiphenylamine								28.1	C						
4-Bromophenyl-phenylether															
Hexachlorobenzene															
Atrazine															
Pentachlorophenol															
Phenanthrene															

AFFECTED SAMPLES

ALL SAMPLES ON THIS PAGE

CSL55 CSL63 SBLK95 SBLK07
CSL56 CSL64 CSL60
CSL56 CSL65 CSL62
CSL56 CSL66 CSL67
CSL61 CSL68
CSL62MS CSL69
CSL62MSD

Reviewer

Initials/Date DWG 03/30/00

TABLE I

ENVIRONMENTAL PROTECTION AGENCY REGION III
CALIBRATION OUTLIERS
SEMIVOLATILE COMPOUNDS

CASE/DAS NO. - 27981 CONTRACTOR ESAT

Instrument# HP73G	Init. Cal			Cont. Cal			Cont. Cal.			Cont. Cal.			Cont. Cal.		
DATE/TIME:	05/01/2000 0947			05/04/2000 1434			05/05/2000 0934			05/10/2000 1042					
	RF	%RSD	*	RF	%D	*	RF	%D	*	RF	%D	*	RF	%D	*
Anthracene															
Carbazole		52.5	I					152.6	C		183.2	C			
Di-n-butylphthalate															
Fluoranthene															
Pyrene															
Butylbenzylphthalate															
3,3'-Dichlorobenzidine					-25.3	C									
Benzo(a)anthracene															
Chrysene															
bis(2-Ethylhexyl)phthalate															
Di-n-octylphthalate															
Benzo(b)fluoranthene															
Benzo(k)fluoranthene															
Benzo(a)pyrene															
Indeno(1,2,3-cd)pyrene								31.5	C						
Dibenzo(a,h)anthracene								38.0	C						
Benzo(g,h,i)perylene								25.5	C						
AFFECTED SAMPLES	ALL SAMPLES ON THIS PAGE			CSL55	CSL63		SBLK95			SBLK07					
				CSL56	CSL64					CSL60					
				CSL56	CSL65					CSL62					
				CSL56	CSL66					CSL67					
				CSL61						CSL68					
Reviewer				CSL62MS						CSL69					
Initials/Date: DWG / 03/30/00				CSL62MSD											

DEFINITION OF CODES USED IN TABLE I

I = %RSD exceeded 30% in the initial calibration, positive results are qualified "J". When the %RSD exceeded 50%, quantitation limits are qualified "UJ".

C = %D exceeded 30% in the volatile continuing calibration, and 25% in the semivolatile continuing calibration. Positive results are qualified "J". When the %D exceeded 50%, quantitation limits are qualified "UJ".

F = RF less than 0.05 in the calibration. All quantitation limits are qualified "R" and positive results are qualified "L".

+ = 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.

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: ENVIROSYSTEMS Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL45

Instrument ID: F5100B Calibration Date(s): 04/25/00 04/25/00

Heated Purge: (Y/N): N Calibration Times: 1037 1256

GC Column: RTX-502.2 ID: 0.530(mm)

LAB FILE ID: RRF10 = 0425V1B1 RRF20 = 0425V4B1
RRF50= 0425V3B1 RRF100= 0425V4B1 RRF200= 0425V5B1

COMPOUND	RRF10	RRF20	RRF50	RRF100	RRF200	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	0.658	0.663	0.668	0.663	0.625	0.655	2.6
Chloromethane	1.089	0.955	0.868	0.955	0.944	0.962	8.3
Vinyl Chloride *	1.020	1.063	1.043	1.063	0.992	1.036	2.9*
Bromomethane *	1.285	0.857	0.836	0.857	0.670	0.901	25.4*
Chloroethane	0.850	0.818	0.888	0.818	0.731	0.821	7.1
Trichlorofluoromethane	2.841	2.455	2.543	2.455	1.914	2.442	13.7
1,1-Dichloroethene *	0.863	0.846	1.037	0.846	0.822	0.883	9.9*
1,1,2-Trichloro-1,2,2-trifl	2.322	2.365	2.230	2.365	2.423	2.341	3.1
1,2,2-trifluoroethane							
Acetone	0.303	0.212	0.197	0.212	0.197	0.224	20.0
Carbon Disulfide	3.587	3.897	3.638	3.897	3.982	3.800	4.6
Methyl Acetate	1.096	1.103	0.959	1.103	1.122	1.077	6.2
Methylene Chloride	1.825	1.770	1.981	1.770	1.713	1.812	5.7
trans-1,2-Dichloroethene	1.628	1.686	1.600	1.686	1.690	1.658	2.5
tert-Butyl Methyl Ether	2.718	2.971	2.803	2.971	2.982	2.889	4.2
1,1-Dichloroethane *	3.239	3.302	3.110	3.302	3.328	3.256	2.7*
cis-1,2-Dichloroethene	1.577	1.676	1.593	1.676	1.731	1.651	3.9
2-Butanone	0.646	0.503	0.507	0.503	0.517	0.535	11.6
Chloroform *	3.462	3.483	3.392	3.483	3.605	3.485	2.2*
1,1,1-Trichloroethane *	0.508	0.510	0.489	0.510	0.533	0.510	3.1*
Cyclohexane	2.321	2.439	2.245	2.439	2.566	2.402	5.1
Carbon Tetrachloride *	0.479	0.490	0.470	0.490	0.554	0.497	6.7*
Benzene *	0.992	0.985	0.991	0.985	1.141	1.019	6.7*
1,2-Dichloroethane *	2.416	2.424	2.427	2.424	2.730	2.484	5.5*
Trichloroethene *	0.386	0.440	0.406	0.440	0.467	0.428	7.4*
Methylcyclohexane	0.495	0.628	0.574	0.628	0.676	0.600	11.5

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.

060133

6B

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: ENVIROSYSTEMS Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL45

Instrument ID: F5100B Calibration Date(s): 04/25/00 04/25/00

Heated Purge: (Y/N): N Calibration Times: 1037 1256

GC Column: RTX-502.2 ID: 0.530(mm)

LAB FILE ID: RRF10 = 0425V1B1 RRF20 = 0425V4B1
RRF50= 0425V3B1 RRF100= 0425V4B1 RRF200= 0425V5B1

COMPOUND	RRF10	RRF20	RRF50	RRF100	RRF200	$\overline{RRF}$	% RSD
1,2-Dichloropropane	0.416	0.462	0.423	0.462	0.507	0.454	8.0
Bromodichloromethane *	0.606	0.704	0.641	0.704	0.766	0.684	9.1*
cis-1,3-Dichloropropene *	0.371	0.580	0.493	0.580	0.654	0.536	20.2*
4-Methyl-2-Pentanone	0.099	0.235	0.185	0.235	0.293	0.209	34.7
Toluene *	1.248	1.341	1.283	1.341	1.377	1.318	3.9*
trans-1,3-Dichloropropene *	0.254	0.452	0.369	0.452	0.528	0.411	25.4*
1,1,2-Trichloroethane *	0.362	0.411	0.373	0.411	0.443	0.400	8.2*
Tetrachloroethene *	0.375	0.392	0.376	0.392	0.400	0.387	2.8*
2-Hexanone	0.054	0.119	0.074	0.119	0.169	0.107	41.9
Dibromochloromethane *	0.410	0.532	0.475	0.532	0.574	0.505	12.6*
1,2-Dibromoethane	0.454	0.550	0.523	0.550	0.582	0.532	9.1
Chlorobenzene *	1.053	1.012	0.993	1.012	1.008	1.016	2.2*
Ethylbenzene *	0.382	0.450	0.408	0.450	0.481	0.434	9.0*
Xylene (total) *	0.487	0.579	0.546	0.579	0.583	0.555	7.3*
Styrene *	0.769	0.971	0.884	0.971	0.985	0.916	10.0*
Bromoform *	0.207	0.317	0.283	0.317	0.346	0.294	18.2*
Isopropylbenzene	1.552	1.795	1.684	1.795	1.691	1.703	5.9
1,1,2,2-Tetrachloroethane *	0.662	0.722	0.727	0.722	0.759	0.718	4.9*
1,3 Dichlorobenzene *	0.788	0.836	0.795	0.836	0.853	0.822	3.5*
1,4 Dichlorobenzene *	0.872	0.876	0.835	0.876	0.882	0.868	2.2*
1,2 Dichlorobenzene *	0.815	0.820	0.793	0.820	0.827	0.815	1.6*
1,2-Dibromo-3-chloropropane	0.086	0.119	0.117	0.119	0.141	0.116	16.9
1,2,4-Trichlorobenzene *	0.501	0.603	0.563	0.603	0.607	0.575	7.9*
Toluene-d8	1.372	1.145	1.102	1.145	1.153	1.183	9.1
Bromofluorobenzene *	1.024	0.865	0.829	0.865	0.851	0.887	8.8*
1,2-Dichloroethane-d4	2.842	1.844	1.900	1.844	2.160	2.118	20.1

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.

0.0134

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ENVIROSYSTEMS Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL45

Instrument ID: F5100B Calibration date: 04/25/00 Time: 1256

Lab File ID: 0425V3B1 Init. Calib. Date(s): 04/25/00 04/25/00

EPA Sample No. (VSTD050##): VSTD050B0 Init. Calib. Times: 1037 1256

Heated Purge: (Y/N) N

GC Column: RTX-502.2 ID: 0.530(mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D	SAMPLE NO.
Dichlorodifluoromethane	0.655	0.668		2.0		VBLKB0
Chloromethane	0.962	0.868		-9.8		CSL45
Vinyl Chloride	1.036	1.043	0.100	0.7	25.0	CSL45MS
Bromomethane	0.901	0.836	0.100	-7.2	25.0	CSL45MSD
Chloroethane	0.821	0.888		8.2		CSL46
Trichlorofluoromethane	2.442	2.543		4.1		CSL47
1,1-Dichloroethene	0.883	1.037	0.100	17.4	25.0	CSL48
1,1,2-Trichloro-1,2,2-trifluo	2.341	2.230		-4.7		CSL49
1,2,2-trifluoroethane						CSL50
Acetone	0.224	0.197		-12.0		CSL51
Carbon Disulfide	3.800	3.638		-4.3		CSL52
Methyl Acetate	1.077	0.959		-11.0		
Methylene Chloride	1.812	1.981		9.3		
trans-1,2-Dichloroethene	1.658	1.600		-3.5		
tert-Butyl Methyl Ether	2.889	2.803		-3.0		
1,1-Dichloroethane	3.256	3.110	0.200	-4.5	25.0	
cis-1,2-Dichloroethene	1.651	1.593		-3.5		
2-Butanone	0.535	0.507		-5.2		
Chloroform	3.485	3.392	0.200	-2.7	25.0	
1,1,1-Trichloroethane	0.510	0.489	0.100	-4.1	25.0	
Cyclohexane	2.402	2.245		-6.5		
Carbon Tetrachloride	0.497	0.470	0.100	-5.4	25.0	
Benzene	1.019	0.991	0.500	-2.7	25.0	
1,2-Dichloroethane	2.484	2.427	0.100	-2.3	25.0	
Trichloroethene	0.428	0.406	0.300	-5.1	25.0	
Methylcyclohexane	0.600	0.574		-4.3		

All other compounds must meet a minimum RRF of 0.010.

7B

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ENVIROSYSTEMS Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL45

Instrument ID: F5100B Calibration date: 04/25/00 Time: 1256

Lab File ID: 0425V3B1 Init. Calib. Date(s): 04/25/00 04/25/00

EPA Sample No. (VSTD050##): VSTD050B0 Init. Calib. Times: 1037 1256

Heated Purge: (Y/N) N

GC Column: RTX-502.2 ID: 0.530(mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
1,2-Dichloropropane	0.454	0.423		-6.8	
Bromodichloromethane	0.684	0.641	0.200	-6.3	25.0
cis-1,3-Dichloropropene	0.536	0.493	0.200	-8.0	25.0
4-Methyl-2-Pentanone	0.209	0.185		-11.5	
Toluene	1.318	1.283	0.400	-2.7	25.0
trans-1,3-Dichloropropene	0.411	0.369	0.100	-10.2	25.0
1,1,2-Trichloroethane	0.400	0.373	0.100	-6.8	25.0
Tetrachloroethene	0.387	0.376	0.200	-2.8	25.0
2-Hexanone	0.107	0.074		-30.8	
Dibromochloromethane	0.505	0.475	0.100	-5.9	25.0
1,2-Dibromoethane	0.532	0.523		-1.7	
Chlorobenzene	1.016	0.993	0.500	-2.3	25.0
Ethylbenzene	0.434	0.408	0.100	-6.0	25.0
Xylene (total)	0.555	0.546	0.300	-1.6	25.0
Styrene	0.916	0.884	0.300	-3.5	25.0
Bromoform	0.294	0.283	0.100	-3.7	25.0
Isopropylbenzene	1.703	1.684		-1.1	
1,1,2,2-Tetrachloroethane	0.718	0.727	0.300	1.3	25.0
1,3 Dichlorobenzene	0.822	0.795	0.600	-3.3	25.0
1,4 Dichlorobenzene	0.868	0.835	0.500	-3.8	25.0
1,2 Dichlorobenzene	0.815	0.793	0.400	-2.7	25.0
1,2-Dibromo-3-chloropropane	0.116	0.117		0.9	
1,2,4-Trichlorobenzene	0.575	0.563	0.200	-2.1	25.0
Toluene-d8	1.183	1.102		-6.8	
Bromofluorobenzene	0.887	0.829	0.200	-6.5	25.0
1,2-Dichloroethane-d4	2.118	1.900		-10.3	

All other compounds must meet a minimum RRF of 0.010.

0..1162

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ENVIROSYSTEMS Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL45

Instrument ID: F5100B Calibration date: 04/26/00 Time: 0847

Lab File ID: 0426V3B1 Init. Calib. Date(s): 04/25/00 04/25/00

EPA Sample No. (VSTD050##): VSTD050BP Init. Calib. Times: 1037 1256

Heated Purge: (Y/N) N

GC Column: RTX-502.2 ID: 0.530(mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D	SAMPLE NO.
Dichlorodifluoromethane	0.655	0.626		-4.4		VBLKBP
Chloromethane	0.962	0.826		-14.1		CSL53
Vinyl Chloride	1.036	0.989	0.100	-4.5	25.0	CSL54
Bromomethane	0.901	0.783	0.100	-13.1	25.0	CSL70
Chloroethane	0.821	0.795		-3.2		CSL71
Trichlorofluoromethane	2.442	2.570		5.2		VHBLKBP
1,1-Dichloroethene	0.883	0.789	0.100	-10.6	25.0	
1,1,2-Trichloro-1,2,2-trifluo	2.341	2.276		-2.8		
1,2,2-trifluoroethane						
Acetone	0.224	0.217		-3.1		
Carbon Disulfide	3.800	3.508		-7.7		
Methyl Acetate	1.077	0.889		-17.5		
Methylene Chloride	1.812	1.660		-8.4		
trans-1,2-Dichloroethene	1.658	1.497		-9.7		
tert-Butyl Methyl Ether	2.889	2.323		-19.6		
1,1-Dichloroethane	3.256	3.018	0.200	-7.3	25.0	
cis-1,2-Dichloroethene	1.651	1.493		-9.6		
2-Butanone	0.535	0.436		-18.5		
Chloroform	3.485	3.265	0.200	-6.3	25.0	
1,1,1-Trichloroethane	0.510	0.517	0.100	1.4	25.0	
Cyclohexane	2.402	2.368		-1.4		
Carbon Tetrachloride	0.497	0.516	0.100	3.8	25.0	
Benzene	1.019	1.057	0.500	3.7	25.0	
1,2-Dichloroethane	2.484	2.451	0.100	-1.3	25.0	
Trichloroethene	0.428	0.431	0.300	0.7	25.0	
Methylcyclohexane	0.600	0.602		0.3		

All other compounds must meet a minimum RRF of 0.010.

0.0163

7B

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ENVIROSYSTEMS Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL45

Instrument ID: F5100B Calibration date: 04/26/00 Time: 0847

Lab File ID: 0426V3B1 Init. Calib. Date(s): 04/25/00 04/25/00

EPA Sample No. (VSTD050##): VSTD050BP Init. Calib. Times: 1037 1256

Heated Purge: (Y/N) N

GC Column: RTX-502.2 ID: 0.530(mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
1,2-Dichloropropane	0.454	0.438		-3.5	
Bromodichloromethane	0.684	0.653	0.200	-4.5	25.0
cis-1,3-Dichloropropene	0.536	0.483	0.200	-9.9	25.0
4-Methyl-2-Pentanone	0.209	0.154		-26.3	
Toluene	1.318	1.296	0.400	-1.7	25.0
trans-1,3-Dichloropropene	0.411	0.364	0.100	-11.4	25.0
1,1,2-Trichloroethane	0.400	0.397	0.100	-0.8	25.0
Tetrachloroethene	0.387	0.384	0.200	-0.8	25.0
2-Hexanone	0.107	0.070		-34.6	
Dibromochloromethane	0.505	0.469	0.100	-7.1	25.0
1,2-Dibromoethane	0.532	0.504		-5.3	
Chlorobenzene	1.016	1.008	0.500	-0.8	25.0
Ethylbenzene	0.434	0.413	0.100	-4.8	25.0
Xylene (total)	0.555	0.549	0.300	-1.1	25.0
Styrene	0.916	0.885	0.300	-3.4	25.0
Bromoform	0.294	0.264	0.100	-10.2	25.0
Isopropylbenzene	1.703	1.674		-1.7	
1,1,2,2-Tetrachloroethane	0.718	0.716	0.300	-0.3	25.0
1,3 Dichlorobenzene	0.822	0.807	0.600	-1.8	25.0
1,4 Dichlorobenzene	0.868	0.863	0.500	-0.6	25.0
1,2 Dichlorobenzene	0.815	0.790	0.400	-3.1	25.0
1,2-Dibromo-3-chloropropane	0.116	0.105		-9.5	
1,2,4-Trichlorobenzene	0.575	0.574	0.200	-0.2	25.0
Toluene-d8	1.183	1.091		-7.8	
Bromofluorobenzene	0.887	0.828	0.200	-6.7	25.0
1,2-Dichloroethane-d4	2.118	2.106		-0.6	

All other compounds must meet a minimum RRF of 0.010.

0..164

6A

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: ENVIROSYSTEMS Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Instrument ID: F5100C Calibration Date(s): 04/24/00 04/24/00

Heated Purge: (Y/N): Y Calibration Times: 0915 1635

GC Column: RTX-502.2 ID: 0.530(mm)

LAB FILE ID: RRF10 = 0424V1C2 RRF20 = 0424V2C2
RRF50= 0424V3C2 RRF100= 0424V4C1 RRF200= 0424V5C1

COMPOUND	RRF10	RRF20	RRF50	RRF100	RRF200	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	0.805	0.889	0.760	0.840	0.927	0.844	7.8
Chloromethane	0.757	0.830	0.715	0.827	0.727	0.771	7.1
Vinyl Chloride *	0.680	0.722	0.563	0.649	0.682	0.659	9.1*
Bromomethane *	0.740	0.916	0.628	0.556	0.683	0.705	19.3*
Chloroethane	0.454	0.513	0.441	0.434	0.441	0.457	7.1
Trichlorofluoromethane	3.184	3.567	2.909	3.970	2.792	3.284	14.8
1,1-Dichloroethene *	1.126	1.122	1.027	0.564	0.598	0.887	31.9*
1,1,2-Trichloro-1,2,2-trifl	2.982	2.352	1.880	2.401	1.873	2.298	19.9
1,2,2-trifluoroethane							
Acetone	0.674	0.591	0.436	0.481	0.324	0.501	27.2
Carbon Disulfide	2.225	2.500	2.160	2.713	3.103	2.540	15.2
Methyl Acetate	0.896	1.308	1.114	1.322	1.443	1.217	17.6
Methylene Chloride	1.769	2.176	1.253	1.293	1.374	1.573	25.1
trans-1,2-Dichloroethene	1.043	1.129	1.013	1.378	1.354	1.183	14.6
tert-Butyl Methyl Ether	2.294	2.337	1.697	2.609	2.638	2.315	16.4
1,1-Dichloroethane *	2.252	2.294	2.034	2.416	2.591	2.317	8.9*
cis-1,2-Dichloroethene	1.189	1.200	1.048	1.298	1.405	1.228	10.8
2-Butanone	0.964	1.019	0.776	0.896	0.834	0.898	10.8
Chloroform *	3.354	3.409	2.981	3.541	3.734	3.404	8.2*
1,1,1-Trichloroethane *	0.588	0.605	0.564	0.524	0.799	0.616	17.3*
Cyclohexane	1.245	1.297	1.149	1.275	1.650	1.323	14.4
Carbon Tetrachloride *	0.701	0.738	0.687	0.680	0.973	0.756	16.3*
Benzene *	0.680	0.712	0.643	0.532	0.738	0.661	12.2*
1,2-Dichloroethane *	3.018	3.211	2.788	3.167	3.405	3.118	7.4*
Trichloroethene *	0.483	0.519	0.460	0.499	0.658	0.524	14.9*
Methylcyclohexane	0.339	0.363	0.330	0.375	0.535	0.388	21.6

* *Compounds with required minimum RRF and maximum %RSD values.*
All other compounds must meet a minimum RRF of 0.010.

6B

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: ENVIROSYSTEMS Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Instrument ID: F5100C Calibration Date(s): 04/24/00 04/24/00

Heated Purge: (Y/N): Y Calibration Times: 0915 1635

GC Column: RTX-502.2 ID: 0.530(mm)

LAB FILE ID: RRF10 = 0424V1C2 RRF20 = 0424V2C2
RRF50= 0424V3C2 RRF100= 0424V4C1 RRF200= 0424V5C1

COMPOUND	RRF10	RRF20	RRF50	RRF100	RRF200	$\overline{RRF}$	% RSD
1,2-Dichloropropane	0.280	0.272	0.254	0.277	0.409	0.298	21.0
Bromodichloromethane *	0.699	0.759	0.699	0.761	1.005	0.785	16.2*
cis-1,3-Dichloropropene *	0.347	0.390	0.387	0.433	0.607	0.433	23.6*
4-Methyl-2-Pentanone	0.382	0.437	0.434	0.372	0.354	0.396	9.5
Toluene *	1.012	1.006	0.947	1.034	1.069	1.014	4.4*
trans-1,3-Dichloropropene *	0.355	0.360	0.365	0.407	0.535	0.404	18.8*
1,1,2-Trichloroethane *	0.386	0.402	0.368	0.389	0.474	0.404	10.2*
Tetrachloroethene *	0.605	0.626	0.566	0.622	0.675	0.619	6.4*
2-Hexanone	0.280	0.342	0.339	0.261	0.265	0.297	13.5
Dibromochloromethane *	0.750	0.821	0.768	0.798	0.846	0.797	4.9*
1,2-Dibromoethane	0.700	0.728	0.691	0.754	0.737	0.722	3.6
Chlorobenzene *	1.036	1.039	0.914	0.910	0.824	0.945	9.7*
Ethylbenzene *	0.411	0.408	0.382	0.390	0.381	0.394	3.6*
Xylene (total) *	0.451	0.488	0.467	0.472	0.476	0.471	2.9*
Styrene *	0.825	0.848	0.807	0.779	0.742	0.800	5.1*
Bromoform *	0.721	0.768	0.744	0.647	0.643	0.705	8.1*
Isopropylbenzene	1.416	1.509	1.443	1.372	1.282	1.404	6.0
1,1,2,2-Tetrachloroethane *	0.828	0.875	0.831	0.632	0.608	0.755	16.5*
1,3 Dichlorobenzene *	1.150	1.211	1.092	1.010	0.919	1.076	10.7*
1,4 Dichlorobenzene *	1.273	1.272	1.147	1.080	0.989	1.152	10.7*
1,2 Dichlorobenzene *	1.151	1.219	1.086	0.989	0.958	1.081	10.1*
1,2-Dibromo-3-chloropropane	0.254	0.281	0.294	0.229	0.268	0.265	9.5
1,2,4-Trichlorobenzene *	1.057	1.103	1.032	0.909	0.891	0.998	9.4*
Toluene-d8	0.892	0.899	0.848	0.943	1.011	0.919	6.7
Bromofluorobenzene *	0.846	0.852	0.801	0.728	0.691	0.784	9.1*
1,2-Dichloroethane-d4	2.561	2.565	2.237	2.576	2.898	2.567	9.1

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.

020197

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ENVIROSYSTEMS Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Instrument ID: F5100C Calibration date: 04/25/00 Time: 0910

Lab File ID: 0425V3C1 Init. Calib. Date(s): 04/24/00 04/24/00

EPA Sample No. (VSTD050##): VSTD050C0 Init. Calib. Times: 0915 1635

Heated Purge: (Y/N) Y

GC Column: RTX-502.2 ID: 0.530(mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D	SAMPLE NO.
Dichlorodifluoromethane	0.844	0.817		-3.2		VBLKC0
Chloromethane	0.771	0.540		-30.0		CSL55
Vinyl Chloride	0.659	0.577	0.100	-12.4	25.0	CSL56
Bromomethane	0.705	0.641	0.100	-9.1	25.0	CSL57
Chloroethane	0.457	0.393		-14.0		CSL58
Trichlorofluoromethane	3.284	2.985		-9.1		CSL63
1,1-Dichloroethene	0.887	0.851	0.100	-4.1	25.0	CSL60
1,1,2-Trichloro-1,2,2-trifluo	2.298	1.772		-22.9		CSL61
1,2,2-trifluoroethane						CSL62
Acetone	0.501	0.282		-43.7		CSL62MS
Carbon Disulfide	2.540	2.197		-13.5		CSL62MSD
Methyl Acetate	1.217	0.959		-21.2		CSL64
Methylene Chloride	1.573	1.127		-28.4		CSL65
trans-1,2-Dichloroethene	1.183	1.120		-5.3		
tert-Butyl Methyl Ether	2.315	2.145		-7.3		
1,1-Dichloroethane	2.317	1.945	0.200	-16.1	25.0	
cis-1,2-Dichloroethene	1.228	1.067		-13.1		
2-Butanone	0.898	0.579		-35.5		
Chloroform	3.404	3.028	0.200	-11.0	25.0	
1,1,1-Trichloroethane	0.616	0.566	0.100	-8.1	25.0	
Cyclohexane	1.323	1.133		-14.4		
Carbon Tetrachloride	0.756	0.781	0.100	3.3	25.0	
Benzene	0.661	0.670	0.500	1.4	25.0	
1,2-Dichloroethane	3.118	2.648	0.100	-15.1	25.0	
Trichloroethene	0.524	0.485	0.300	-7.4	25.0	
Methylcyclohexane	0.388	0.352		-9.3		

All other compounds must meet a minimum RRF of 0.010.

0211224

7B

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ENVIROSYSTEMS Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Instrument ID: F5100C Calibration date: 04/25/00 Time: 0910

Lab File ID: 0425V3C1 Init. Calib. Date(s): 04/24/00 04/24/00

EPA Sample No. (VSTD050##): VSTD050C0 Init. Calib. Times: 0915 1635

Heated Purge: (Y/N) Y

GC Column: RTX-502.2 ID: 0.530(mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
1,2-Dichloropropane	0.298	0.257		-13.8	
Bromodichloromethane	0.785	0.704	0.200	-10.3	25.0
cis-1,3-Dichloropropene	0.433	0.384	0.200	-11.3	25.0
4-Methyl-2-Pentanone	0.396	0.371		-6.3	
Toluene	1.014	0.987	0.400	-2.7	25.0
trans-1,3-Dichloropropene	0.404	0.363	0.100	-10.2	25.0
1,1,2-Trichloroethane	0.404	0.379	0.100	-6.2	25.0
Tetrachloroethene	0.619	0.615	0.200	-0.6	25.0
2-Hexanone	0.297	0.300		1.0	
Dibromochloromethane	0.797	0.797	0.100	0.0	25.0
1,2-Dibromoethane	0.722	0.715		-1.0	
Chlorobenzene	0.945	0.967	0.500	2.3	25.0
Ethylbenzene	0.394	0.401	0.100	1.8	25.0
Xylene (total)	0.471	0.484	0.300	2.8	25.0
Styrene	0.800	0.853	0.300	6.6	25.0
Bromoform	0.705	0.770	0.100	9.2	25.0
Isopropylbenzene	1.404	1.478		5.3	
1,1,2,2-Tetrachloroethane	0.755	0.831	0.300	10.1	25.0
1,3 Dichlorobenzene	1.076	1.147	0.600	6.6	25.0
1,4 Dichlorobenzene	1.152	1.174	0.500	1.9	25.0
1,2 Dichlorobenzene	1.081	1.128	0.400	4.3	25.0
1,2-Dibromo-3-chloropropane	0.265	0.251		-5.3	
1,2,4-Trichlorobenzene	0.998	1.004	0.200	0.6	25.0
Toluene-d8	0.919	0.896		-2.5	
Bromofluorobenzene	0.784	0.826	0.200	5.4	25.0
1,2-Dichloroethane-d4	2.567	2.071		-19.3	

All other compounds must meet a minimum RRF of 0.010.

041225

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ENVIROSYSTEMS Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Instrument ID: F5100C Calibration date: 04/26/00 Time: 0843

Lab File ID: 0426V3C1 Init. Calib. Date(s): 04/24/00 04/24/00

EPA Sample No. (VSTD050##): VSTD050CP Init. Calib. Times: 0915 1635

Heated Purge: (Y/N) Y

GC Column: RTX-502.2 ID: 0.530(mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D	SAMPLE NO.
Dichlorodifluoromethane	0.844	0.738		-12.6		VBLKCP
Chloromethane	0.771	0.541		-29.8		CSL66
Vinyl Chloride	0.659	0.611	0.100	-7.3	25.0	CSL67
Bromomethane	0.705	0.631	0.100	-10.5	25.0	CSL68
Chloroethane	0.457	0.467		2.2		CSL69
Trichlorofluoromethane	3.284	3.182		-3.1		CSL60RE
1,1-Dichloroethene	0.887	0.958	0.100	8.0	25.0	CSL67RE
1,1,2-Trichloro-1,2,2-trifluo	2.298	1.665		-27.6		VHBLKCP
1,2,2-trifluoroethane						
Acetone	0.501	0.296		-40.9		
Carbon Disulfide	2.540	2.282		-10.2		
Methyl Acetate	1.217	0.995		-18.2		
Methylene Chloride	1.573	1.154		-26.6		
trans-1,2-Dichloroethene	1.183	1.181		-0.2		
tert-Butyl Methyl Ether	2.315	2.111		-8.8		
1,1-Dichloroethane	2.317	2.008	0.200	-13.3	25.0	
cis-1,2-Dichloroethene	1.228	1.108		-9.8		
2-Butanone	0.898	0.655		-27.1		
Chloroform	3.404	3.054	0.200	-10.3	25.0	
1,1,1-Trichloroethane	0.616	0.585	0.100	-5.0	25.0	
Cyclohexane	1.323	1.202		-9.1		
Carbon Tetrachloride	0.756	0.750	0.100	-0.8	25.0	
Benzene	0.661	0.706	0.500	6.8	25.0	
1,2-Dichloroethane	3.118	2.602	0.100	-16.6	25.0	
Trichloroethene	0.524	0.496	0.300	-5.3	25.0	
Methylcyclohexane	0.388	0.355		-8.5		

All other compounds must meet a minimum RRF of 0.010.

0201231

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ENVIROSYSTEMS Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Instrument ID: F5100C Calibration date: 04/26/00 Time: 0843

Lab File ID: 0426V3C1 Init. Calib. Date(s): 04/24/00 04/24/00

EPA Sample No. (VSTD050##): VSTD050CP Init. Calib. Times: 0915 1635

Heated Purge: (Y/N) Y

GC Column: RTX-502.2 ID: 0.530(mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
1,2-Dichloropropane	0.298	0.275		-7.7	
Bromodichloromethane	0.785	0.737	0.200	-6.1	25.0
cis-1,3-Dichloropropene	0.433	0.417	0.200	-3.7	25.0
4-Methyl-2-Pentanone	0.396	0.372		-6.1	
Toluene	1.014	0.963	0.400	-5.0	25.0
trans-1,3-Dichloropropene	0.404	0.383	0.100	-5.2	25.0
1,1,2-Trichloroethane	0.404	0.395	0.100	-2.2	25.0
Tetrachloroethene	0.619	0.592	0.200	-4.4	25.0
2-Hexanone	0.297	0.298		0.3	
Dibromochloromethane	0.797	0.807	0.100	1.3	25.0
1,2-Dibromoethane	0.722	0.718		-0.6	
Chlorobenzene	0.945	0.979	0.500	3.6	25.0
Ethylbenzene	0.394	0.374	0.100	-5.1	25.0
Xylene (total)	0.471	0.489	0.300	3.8	25.0
Styrene	0.800	0.844	0.300	5.5	25.0
Bromoform	0.705	0.780	0.100	10.6	25.0
Isopropylbenzene	1.404	1.496		6.6	
1,1,2,2-Tetrachloroethane	0.755	0.858	0.300	13.6	25.0
1,3 Dichlorobenzene	1.076	1.136	0.600	5.6	25.0
1,4 Dichlorobenzene	1.152	1.196	0.500	3.8	25.0
1,2 Dichlorobenzene	1.081	1.135	0.400	5.0	25.0
1,2-Dibromo-3-chloropropane	0.265	0.249		-6.0	
1,2,4-Trichlorobenzene	0.998	0.935	0.200	-6.3	25.0
Toluene-d8	0.919	0.867		-5.7	
Bromofluorobenzene	0.784	0.837	0.200	6.8	25.0
1,2-Dichloroethane-d4	2.567	2.176		-15.2	

All other compounds must meet a minimum RRF of 0.010.

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL45

Instrument ID: HP73G Calibration Date(s): 05/01/00 05/01/00

Calibration Time(s): 0947 1259

LAB FILE ID: RRF20 = H73GB673 RRF50 = H73GB671
RRF80 = H73GB674 RRF120 = H73GB675 RRF160 = H73GB672

COMPOUND	RRF20	RRF50	RRF80	RRF120	RRF160	$\overline{RRF}$	% RSD
Benzaldehyde	0.523	0.601	0.544	0.503	0.459	0.526	9.9
Phenol *	1.719	1.769	1.586	1.504	1.264	1.568	12.8*
bis(2-Chloroethyl)Ether *	1.764	1.871	1.738	1.496	1.134	1.601	18.4*
2-Chlorophenol *	1.556	1.446	1.357	1.241	1.051	1.330	14.6*
2-Methylphenol *	1.459	1.486	1.366	1.300	1.206	1.363	8.4*
2,2'-oxybis(1-Chloropropane)	1.555	1.360	1.274	1.135	1.015	1.268	16.4
Acetophenone	2.060	2.004	1.864	1.763	1.579	1.854	10.4
4-Methylphenol *	1.459	1.470	1.366	1.227	1.051	1.315	13.4*
N-Nitroso-di-n-propylamine *	1.092	1.016	0.959	0.874	0.796	0.947	12.3*
Hexachloroethane *	0.916	0.864	0.807	0.744	0.666	0.799	12.3*
Nitrobenzene *	0.366	0.370	0.336	0.320	0.289	0.336	10.0*
Isophorone *	0.911	0.846	0.787	0.753	0.749	0.809	8.5*
2-Nitrophenol *	0.196	0.209	0.194	0.182	0.161	0.188	9.6*
2,4-Dimethylphenol *	0.358	0.345	0.325	0.309	0.280	0.323	9.4*
2,4-Dichlorophenol *	0.294	0.285	0.264	0.236	0.208	0.257	13.9*
Naphthalene *	1.178	1.078	0.985	0.876	0.756	0.975	17.0*
4-Chloroaniline	0.159	0.151	0.136	0.185	0.300	0.186	35.4
bis(2-Chloroethoxy)methane *	0.501	0.482	0.438	0.405	0.371	0.439	12.2*
Hexachlorobutadiene	0.161	0.141	0.129	0.112	0.094	0.127	20.4
Caprolactam	0.131	0.127	0.115	0.112	0.104	0.118	9.4
4-Chloro-3-methylphenol *	0.316	0.331	0.299	0.231	0.224	0.280	17.6*
2-Methylnaphthalene *	0.711	0.690	0.621	0.575	0.588	0.637	9.5*
Hexachlorocyclopentadiene	0.242	0.259	0.229	0.214	0.194	0.228	11.0
2,4,6-Trichlorophenol *	0.345	0.347	0.315	0.302	0.267	0.315	10.4*
2,4,5-Trichlorophenol *		0.393	0.366	0.340	0.299	0.350	11.4*
1,1'-Biphenyl	1.585	1.447	1.345	1.225	0.993	1.319	17.1
2-Chloronaphthalene *	1.273	1.171	1.086	0.982	0.827	1.068	16.1*
2-Nitroaniline		0.305	0.283	0.288	0.270	0.287	5.0
Dimethylphthalate	1.439	1.366	1.253	1.185	1.056	1.260	11.9
2,6-Dinitrotoluene *	0.342	0.340	0.311	0.300	0.264	0.311	10.3*
Acenaphthylene *	2.135	1.936	1.793	1.638	1.364	1.773	16.5*
3-Nitroaniline		0.019	0.014	0.016	0.089	0.035	106.7
Acenaphthene *	1.327	1.209	1.116	1.006	0.854	1.102	16.5*
2,4-Dinitrophenol		0.094	0.091	0.105	0.119	0.102	12.5
4-Nitrophenol		0.099	0.085	0.095	0.097	0.094	6.7
Dibenzofuran *	1.700	1.571	1.398	1.272	1.073	1.403	17.6*

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.

6D

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL45

Instrument ID: HP73G Calibration Date(s): 05/01/00 05/01/00

Calibration Time(s): 0947 1259

LAB FILE ID: RRF20 = H73GB673 RRF50 = H73GB671
RRF80 = H73GB674 RRF120 = H73GB675 RRF160 = H73GB672

COMPOUND	RRF20	RRF50	RRF80	RRF120	RRF160	$\overline{RRF}$	% RSD
2,4-Dinitrotoluene *	0.411	0.413	0.377	0.359	0.320	0.376	10.3*
Diethylphthalate	1.492	1.302	1.215	1.090	0.980	1.216	16.2
Fluorene *	1.355	1.249	1.122	1.035	0.878	1.128	16.4*
4-Chlorophenyl-phenylether *	0.575	0.495	0.452	0.404	0.344	0.454	19.4*
4-Nitroaniline	[illegible]	0.194	0.174	0.158	0.135	0.165	15.1
4,6-Dinitro-2-methylphenol	[illegible]	0.141	0.131	0.136	0.129	0.134	3.8
N-Nitrosodiphenylamine (1)	0.592	0.473	0.456	0.383	0.304	0.442	24.3
4-Bromophenyl-phenylether *	0.233	0.210	0.195	0.175	0.144	0.191	17.6*
Hexachlorobenzene *	0.267	0.232	0.219	0.189	0.158	0.213	19.5*
Atrazine	0.215	0.163	0.159	0.139	0.133	0.162	20.1
Pentachlorophenol *	[illegible]	0.134	0.121	0.122	0.110	0.122	8.1*
Phenanthrene *	1.324	1.192	1.130	1.005	0.850	1.100	16.5*
Anthracene *	1.289	1.169	1.099	0.978	0.790	1.065	17.9*
Carbazole	0.517	0.241	0.189	0.186	0.208	0.268	52.5
Di-n-butylphthalate	1.915	1.712	1.585	1.401	1.180	1.559	18.1
Fluoranthene *	1.279	1.183	1.078	0.966	0.803	1.062	17.5*
Pyrene *	1.840	1.500	1.505	1.310	1.240	1.479	15.8*
Butylbenzylphthalate	0.996	0.939	0.895	0.823	0.775	0.886	10.0
3,3'-Dichlorobenzidine	0.188	0.162	0.172	0.169	0.137	0.166	11.3
Benzo(a)anthracene *	1.203	1.201	1.094	1.037	0.927	1.092	10.7*
Chrysene *	1.163	1.093	1.053	0.924	0.812	1.009	13.9*
bis(2-Ethylhexyl)phthalate	1.259	1.268	1.152	1.033	0.950	1.132	12.3
Di-n-octylphthalate	2.707	2.799	2.420	2.104	2.027	2.411	14.4
Benzo(b)fluoranthene *	1.502	1.379	1.271	1.101	1.094	1.269	14.0*
Benzo(k)fluoranthene *	1.502	1.379	1.271	1.101	0.971	1.245	17.1*
Benzo(a)pyrene *	1.147	1.176	1.108	1.024	0.937	1.078	9.1*
Indeno(1,2,3-cd)pyrene *	0.701	0.781	0.838	0.844	0.736	0.780	8.0*
Dibenzo(a,h)anthracene *	0.646	0.698	0.758	0.748	0.685	0.707	6.6*
Benzo(g,h,i)perylene *	0.815	0.850	0.933	0.906	0.777	0.856	7.5*
Nitrobenzene-d5 *	0.389	0.402	0.365	0.352	0.325	0.367	8.4*
2-Fluorobiphenyl *	1.383	1.237	1.162	1.063	0.876	1.144	16.6*
Terphenyl-d14 *	1.221	0.995	0.990	0.851	0.801	0.972	16.8*
Phenol-d5 *	1.612	1.646	1.530	1.435	1.287	1.502	9.7*
2-Fluorophenol *	1.405	1.503	1.449	1.457	1.290	1.421	5.7*
2,4,6-Tribromophenol	0.115	0.112	0.105	0.094	0.080	0.101	14.2
2-Chlorophenol-d4 *	1.575	1.512	1.403	1.300	1.084	1.375	14.1*
1,2-Dichlorobenzene-d4 *	1.060	0.980	0.920	0.833	0.729	0.904	14.2*

(1) Cannot be separated from Diphenylamine
* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL45

Instrument ID: HP73G Calibration Date: 05/02/00 Time: 1130

Lab File ID: H73GB681 Init. Calib. Date(s): 05/01/00 05/01/00

EPA Sample No.(SSTD050##): SSTD050GV Init. Calib. Times: 0947 1259

GC Column: HP-5MS ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Benzaldehyde	0.526	0.727		38.2	
Phenol	1.568	1.784	0.800	13.8	25.0
bis(2-Chloroethyl)Ether	1.601	1.931	0.700	20.6	25.0
2-Chlorophenol	1.330	1.495	0.800	12.4	25.0
2-Methylphenol	1.363	1.518	0.700	11.4	25.0
2,2'-oxybis(1-Chloropropane)	1.268	1.468		15.8	
Acetophenone	1.854	2.009		8.4	
4-Methylphenol	1.315	1.476	0.600	12.2	25.0
N-Nitroso-di-n-propylamine	0.947	1.076	0.500	13.6	25.0
Hexachloroethane	0.799	0.899	0.300	12.5	25.0
Nitrobenzene	0.336	0.356	0.200	6.0	25.0
Isophorone	0.809	0.869	0.400	7.4	25.0
2-Nitrophenol	0.188	0.200	0.100	6.4	25.0
2,4-Dimethylphenol	0.323	0.325	0.200	0.6	25.0
2,4-Dichlorophenol	0.257	0.282	0.200	9.7	25.0
Naphthalene	0.975	1.048	0.700	7.5	25.0
4-Chloroaniline	0.186	0.118		-36.6	
bis(2-Chloroethoxy)methane	0.439	0.472	0.300	7.5	25.0
Hexachlorobutadiene	0.127	0.144		13.4	
Caprolactam	0.118	0.125		5.9	
4-Chloro-3-methylphenol	0.280	0.319	0.200	13.9	25.0
2-Methylnaphthalene	0.637	0.700	0.400	9.9	25.0
Hexachlorocyclopentadiene	0.228	0.214		-6.1	
2,4,6-Trichlorophenol	0.315	0.336	0.200	6.7	25.0
2,4,5-Trichlorophenol	0.350	0.385	0.200	10.0	25.0
1,1'-Biphenyl	1.319	1.460		10.7	
2-Chloronaphthalene	1.068	1.162	0.800	8.8	25.0
2-Nitroaniline	0.287	0.290		1.0	
Dimethylphthalate	1.260	1.371		8.8	
2,6-Dinitrotoluene	0.311	0.336	0.200	8.0	25.0
Acenaphthylene	1.773	1.929	1.300	8.8	25.0
3-Nitroaniline	0.035	0.009		-74.3	
Acenaphthene	1.102	1.207	0.900	9.5	25.0
2,4-Dinitrophenol	0.102	0.080		-21.6	
4-Nitrophenol	0.094	0.095		1.1	
Dibenzofuran	1.403	1.509	0.800	7.6	25.0

All other compounds must meet a minimum RRF of 0.010.

SAMPLE NO.
SBLK92
CSL45
CSL45MS
CSL45MSD
CSL46
CSL47

FORM VII SV-1 OLM04.2

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL45

Instrument ID: HP73G Calibration Date: 05/02/00 Time: 1130

Lab File ID: H73GB681 Init. Calib. Date(s): 05/01/00 05/01/00

EPA Sample No.(SSTD050##): SSTD050GV Init. Calib. Times: 0947 1259

GC Column: HP-5MS ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
2,4-Dinitrotoluene	0.376	0.405	0.200	7.7	25.0
Diethylphthalate	1.216	1.334		9.7	
Fluorene	1.128	1.223	0.900	8.4	25.0
4-Chlorophenyl-phenylether	0.454	0.497	0.400	9.5	25.0
4-Nitroaniline	0.165	0.157		-4.8	
4,6-Dinitro-2-methylphenol	0.134	0.134		0.0	
N-Nitrosodiphenylamine(1)	0.442	0.463		4.8	
4-Bromophenyl-phenylether	0.191	0.212	0.100	11.0	25.0
Hexachlorobenzene	0.213	0.238	0.100	11.7	25.0
Atrazine	0.162	0.157		-3.1	
Pentachlorophenol	0.122	0.124	0.050	1.6	25.0
Phenanthrene	1.100	1.209	0.700	9.9	25.0
Anthracene	1.065	1.166	0.700	9.5	25.0
Carbazole	0.268	0.228		-14.9	
Di-n-butylphthalate	1.559	1.699		9.0	
Fluoranthene	1.062	1.157	0.600	8.9	25.0
Pyrene	1.479	1.684	0.600	13.9	25.0
Butylbenzylphthalate	0.886	0.978		10.4	
3,3'-Dichlorobenzidine	0.166	0.158		-4.8	
Benzo(a)anthracene	1.092	1.189	0.800	8.9	25.0
Chrysene	1.009	1.094	0.700	8.4	25.0
bis(2-Ethylhexyl)phthalate	1.132	1.209		6.8	
Di-n-octylphthalate	2.411	2.880		19.5	
Benzo(b)fluoranthene	1.269	1.383	0.700	9.0	25.0
Benzo(k)fluoranthene	1.245	1.442	0.700	15.8	25.0
Benzo(a)pyrene	1.078	1.193	0.700	10.7	25.0
Indeno(1,2,3-cd)pyrene	0.780	0.741	0.500	-5.0	25.0
Dibenzo(a,h)anthracene	0.707	0.677	0.400	-4.2	25.0
Benzo(g,h,i)perylene	0.856	0.844	0.500	-1.4	25.0
Nitrobenzene-d5	0.367	0.385	0.200	4.9	25.0
2-Fluorobiphenyl	1.144	1.242	0.700	8.6	25.0
Terphenyl-d14	0.972	1.099	0.500	13.1	25.0
Phenol-d5	1.502	1.662	0.800	10.7	25.0
2-Fluorophenol	1.421	1.507	0.600	6.1	25.0
2,4,6-Tribromophenol	0.101	0.112		10.9	
2-Chlorophenol-d4	1.375	1.528	0.800	11.1	25.0
1,2-Dichlorobenzene-d4	0.904	1.016	0.400	12.4	25.0

(1) Cannot be separated from Diphenylamine

All other compounds must meet a minimum RRF of 0.010.

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL45

Instrument ID: HP73G Calibration Date: 05/03/00 Time: 1056

Lab File ID: H73GB689 Init. Calib. Date(s): 05/01/00 05/01/00

EPA Sample No.(SSTD050##): SSTD050GW Init. Calib. Times: 0947 1259

GC Column: HP-5MS ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Benzaldehyde	0.526	0.819		55.7	
Phenol	1.568	1.775	0.800	13.2	25.0
bis(2-Chloroethyl)Ether	1.601	1.791	0.700	11.9	25.0
2-Chlorophenol	1.330	1.486	0.800	11.7	25.0
2-Methylphenol	1.363	1.451	0.700	6.5	25.0
2,2'-oxybis(1-Chloropropane)	1.268	1.378		8.7	
Acetophenone	1.854	1.922		3.7	
4-Methylphenol	1.315	1.422	0.600	8.1	25.0
N-Nitroso-di-n-propylamine	0.947	0.953	0.500	0.6	25.0
Hexachloroethane	0.799	0.869	0.300	8.8	25.0
Nitrobenzene	0.336	0.356	0.200	6.0	25.0
Isophorone	0.809	0.802	0.400	-0.9	25.0
2-Nitrophenol	0.188	0.199	0.100	5.9	25.0
2,4-Dimethylphenol	0.323	0.302	0.200	-6.5	25.0
2,4-Dichlorophenol	0.257	0.276	0.200	7.4	25.0
Naphthalene	0.975	1.095	0.700	12.3	25.0
4-Chloroaniline	0.186	0.197		5.9	
bis(2-Chloroethoxy)methane	0.439	0.450	0.300	2.5	25.0
Hexachlorobutadiene	0.127	0.143		12.6	
Caprolactam	0.118	0.114		-3.4	
4-Chloro-3-methylphenol	0.280	0.299	0.200	6.8	25.0
2-Methylnaphthalene	0.637	0.668	0.400	4.9	25.0
Hexachlorocyclopentadiene	0.228	0.200		-12.3	
2,4,6-Trichlorophenol	0.315	0.333	0.200	5.7	25.0
2,4,5-Trichlorophenol	0.350	0.385	0.200	10.0	25.0
1,1'-Biphenyl	1.319	1.495		13.3	
2-Chloronaphthalene	1.068	1.198	0.800	12.2	25.0
2-Nitroaniline	0.287	0.299		4.2	
Dimethylphthalate	1.260	1.315		4.4	
2,6-Dinitrotoluene	0.311	0.310	0.200	-0.3	25.0
Acenaphthylene	1.773	2.010	1.300	13.4	25.0
3-Nitroaniline	0.035	0.044		25.7	
Acenaphthene	1.102	1.228	0.900	11.4	25.0
2,4-Dinitrophenol	0.102	0.073		-28.4	
4-Nitrophenol	0.094	0.095		1.1	
Dibenzofuran	1.403	1.569	0.800	11.8	25.0

All other compounds must meet a minimum RRF of 0.010.

SAMPLE NO.

CSL48
CSL49
CSL50
CSL51
CSL52
CSL53
CSL54
CSL70

7D

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL45

Instrument ID: HP73G Calibration Date: 05/03/00 Time: 1056

Lab File ID: H73GB689 Init. Calib. Date(s): 05/01/00 05/01/00

EPA Sample No.(SSTD050##): SSTD050GW Init. Calib. Times: 0947 1259

GC Column: HP-5MS ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D	
2,4-Dinitrotoluene	0.376	0.372	0.200	-1.1	25.0	
Diethylphthalate	1.216	1.266		4.1		
Fluorene	1.128	1.237	0.900	9.7	25.0	
4-Chlorophenyl-phenylether	0.454	0.503	0.400	10.8	25.0	
4-Nitroaniline	0.165	0.253		53.3		
4,6-Dinitro-2-methylphenol	0.134	0.121		-9.7		
N-Nitrosodiphenylamine(1)	0.442	0.546		23.5		
4-Bromophenyl-phenylether	0.191	0.214	0.100	12.0	25.0	
Hexachlorobenzene	0.213	0.243	0.100	14.1	25.0	
Atrazine	0.162	0.157		-3.1		
Pentachlorophenol	0.122	0.119	0.050	-2.5	25.0	
Phenanthrene	1.100	1.247	0.700	13.4	25.0	
Anthracene	1.065	1.211	0.700	13.7	25.0	
Carbazole	0.268	0.329		22.8		
Di-n-butylphthalate	1.559	1.667		6.9		
Fluoranthene	1.062	1.170	0.600	10.2	25.0	
Pyrene	1.479	1.512	0.600	2.2	25.0	
Butylbenzylphthalate	0.886	0.805		-9.1		
3,3'-Dichlorobenzidine	0.166	0.220		32.5		
Benzo(a)anthracene	1.092	1.155	0.800	5.8	25.0	
Chrysene	1.009	1.109	0.700	9.9	25.0	
bis(2-Ethylhexyl)phthalate	1.132	1.040		-8.1		
Di-n-octylphthalate	2.411	2.110		-12.5		
Benzo(b)fluoranthene	1.269	1.310	0.700	3.2	25.0	
Benzo(k)fluoranthene	1.245	1.410	0.700	13.3	25.0	
Benzo(a)pyrene	1.078	1.207	0.700	12.0	25.0	
Indeno(1,2,3-cd)pyrene	0.780	0.941	0.500	20.6	25.0	
Dibenzo(a,h)anthracene	0.707	0.905	0.400	28.0	25.0	<-
Benzo(g,h,i)perylene	0.856	1.112	0.500	29.9	25.0	<-
Nitrobenzene-d5	0.367	0.382	0.200	4.1	25.0	
2-Fluorobiphenyl	1.144	1.283	0.700	12.2	25.0	
Terphenyl-d14	0.972	1.006	0.500	3.5	25.0	
Phenol-d5	1.502	1.651	0.800	9.9	25.0	
2-Fluorophenol	1.421	1.401	0.600	-1.4	25.0	
2,4,6-Tribromophenol	0.101	0.110		8.9		
2-Chlorophenol-d4	1.375	1.522	0.800	10.7	25.0	
1,2-Dichlorobenzene-d4	0.904	0.985	0.400	9.0	25.0	

(1) Cannot be separated from Diphenylamine

All other compounds must meet a minimum RRF of 0.010.

FORM VII SV-2 OLM04.2

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: ENVIROSYSTEMS, INC. Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Instrument ID: HP73G Calibration Date(s): 05/01/00 05/01/00

Calibration Time(s): 0947 1259

LAB FILE ID: RRF20 = H73GB673 RRF50 = H73GB671
RRF80 = H73GB674 RRF120 = H73GB675 RRF160 = H73GB672

COMPOUND	RRF20	RRF50	RRF80	RRF120	RRF160	$\overline{RRF}$	% RSD
Benzaldehyde	0.523	0.601	0.544	0.503	0.459	0.526	9.9
Phenol *	1.719	1.769	1.586	1.504	1.264	1.568	12.8*
bis(2-Chloroethyl)Ether *	1.764	1.871	1.738	1.496	1.134	1.601	18.4*
2-Chlorophenol *	1.556	1.446	1.357	1.241	1.051	1.330	14.6*
2-Methylphenol *	1.459	1.486	1.366	1.300	1.206	1.363	8.4*
2,2'-oxybis(1-Chloropropane)	1.555	1.360	1.274	1.135	1.015	1.268	16.4
Acetophenone	2.060	2.004	1.864	1.763	1.579	1.854	10.4
4-Methylphenol *	1.459	1.470	1.366	1.227	1.051	1.315	13.4*
N-Nitroso-di-n-propylamine *	1.092	1.016	0.959	0.874	0.796	0.947	12.3*
Hexachloroethane *	0.916	0.864	0.807	0.744	0.666	0.799	12.3*
Nitrobenzene *	0.366	0.370	0.336	0.320	0.289	0.336	10.0*
Isophorone *	0.911	0.846	0.787	0.753	0.749	0.809	8.5*
2-Nitrophenol *	0.196	0.209	0.194	0.182	0.161	0.188	9.6*
2,4-Dimethylphenol *	0.358	0.345	0.325	0.309	0.280	0.323	9.4*
2,4-Dichlorophenol *	0.294	0.285	0.264	0.236	0.208	0.257	13.9*
Naphthalene *	1.178	1.078	0.985	0.876	0.756	0.975	17.0*
4-Chloroaniline	0.159	0.151	0.136	0.185	0.300	0.186	35.4
bis(2-Chloroethoxy)methane *	0.501	0.482	0.438	0.405	0.371	0.439	12.2*
Hexachlorobutadiene	0.161	0.141	0.129	0.112	0.094	0.127	20.4
Caprolactam	0.131	0.127	0.115	0.112	0.104	0.118	9.4
4-Chloro-3-methylphenol *	0.316	0.331	0.299	0.231	0.224	0.280	17.6*
2-Methylnaphthalene *	0.711	0.690	0.621	0.575	0.588	0.637	9.5*
Hexachlorocyclopentadiene	0.242	0.259	0.229	0.214	0.194	0.228	11.0
2,4,6-Trichlorophenol *	0.345	0.347	0.315	0.302	0.267	0.315	10.4*
2,4,5-Trichlorophenol *		0.393	0.366	0.340	0.299	0.350	11.4*
1,1'-Biphenyl	1.585	1.447	1.345	1.225	0.993	1.319	17.1
2-Chloronaphthalene *	1.273	1.171	1.086	0.982	0.827	1.068	16.1*
2-Nitroaniline		0.305	0.283	0.288	0.270	0.287	5.0
Dimethylphthalate	1.439	1.366	1.253	1.185	1.056	1.260	11.9
2,6-Dinitrotoluene *	0.342	0.340	0.311	0.300	0.264	0.311	10.3*
Acenaphthylene *	2.135	1.936	1.793	1.638	1.364	1.773	16.5*
3-Nitroaniline		0.019	0.014	0.016	0.089	0.035	106.7
Acenaphthene *	1.327	1.209	1.116	1.006	0.854	1.102	16.5* <-
2,4-Dinitrophenol		0.094	0.091	0.105	0.119	0.102	12.5
4-Nitrophenol		0.099	0.085	0.095	0.097	0.094	6.7
Dibenzofuran *	1.700	1.571	1.398	1.272	1.073	1.403	17.6*

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.

040625

6D

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: ENVIROSYSTEMS, INC. Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Instrument ID: HP73G Calibration Date(s): 05/01/00 05/01/00

Calibration Time(s): 0947 1259

LAB FILE ID: RRF20 = H73GB673 RRF50 = H73GB671
RRF80 = H73GB674 RRF120 = H73GB675 RRF160 = H73GB672

COMPOUND	RRF20	RRF50	RRF80	RRF120	RRF160	$\overline{RRF}$	% RSD
2,4-Dinitrotoluene *	0.411	0.413	0.377	0.359	0.320	0.376	10.3*
Diethylphthalate	1.492	1.302	1.215	1.090	0.980	1.216	16.2
Fluorene *	1.355	1.249	1.122	1.035	0.878	1.128	16.4*
4-Chlorophenyl-phenylether *	0.575	0.495	0.452	0.404	0.344	0.454	19.4*
4-Nitroaniline		0.194	0.174	0.158	0.135	0.165	15.1
4,6-Dinitro-2-methylphenol		0.141	0.131	0.136	0.129	0.134	3.8
N-Nitrosodiphenylamine (1)	0.592	0.473	0.456	0.383	0.304	0.442	24.3
4-Bromophenyl-phenylether *	0.233	0.210	0.195	0.175	0.144	0.191	17.6*
Hexachlorobenzene *	0.267	0.232	0.219	0.189	0.158	0.213	19.5*
Atrazine	0.215	0.163	0.159	0.139	0.133	0.162	20.1
Pentachlorophenol *		0.134	0.121	0.122	0.110	0.122	8.1*
Phenanthrene *	1.324	1.192	1.130	1.005	0.850	1.100	16.5*
Anthracene *	1.289	1.169	1.099	0.978	0.790	1.065	17.9*
Carbazole	0.517	0.241	0.189	0.186	0.208	0.268	52.5
Di-n-butylphthalate	1.915	1.712	1.585	1.401	1.180	1.559	18.1
Fluoranthene *	1.279	1.183	1.078	0.966	0.803	1.062	17.5*
Pyrene *	1.840	1.500	1.505	1.310	1.240	1.479	15.8*
Butylbenzylphthalate	0.996	0.939	0.895	0.823	0.775	0.886	10.0
3,3'-Dichlorobenzidine	0.188	0.162	0.172	0.169	0.137	0.166	11.3
Benzo(a)anthracene *	1.203	1.201	1.094	1.037	0.927	1.092	10.7*
Chrysene *	1.163	1.093	1.053	0.924	0.812	1.009	13.9*
bis(2-Ethylhexyl)phthalate	1.259	1.268	1.152	1.033	0.950	1.132	12.3
Di-n-octylphthalate	2.707	2.799	2.420	2.104	2.027	2.411	14.4
Benzo(b)fluoranthene *	1.502	1.379	1.271	1.101	1.094	1.269	14.0*
Benzo(k)fluoranthene *	1.502	1.379	1.271	1.101	0.971	1.245	17.1*
Benzo(a)pyrene *	1.147	1.176	1.108	1.024	0.937	1.078	9.1*
Indeno(1,2,3-cd)pyrene *	0.701	0.781	0.838	0.844	0.736	0.780	8.0*
Dibenzo(a,h)anthracene *	0.646	0.698	0.758	0.748	0.685	0.707	6.6*
Benzo(g,h,i)perylene *	0.815	0.850	0.933	0.906	0.777	0.856	7.5*
Nitrobenzene-d5 *	0.389	0.402	0.365	0.352	0.325	0.367	8.4*
2-Fluorobiphenyl *	1.383	1.237	1.162	1.063	0.876	1.144	16.6*
Terphenyl-d14 *	1.221	0.995	0.990	0.851	0.801	0.972	16.8*
Phenol-d5 *	1.612	1.646	1.530	1.435	1.287	1.502	9.7*
2-Fluorophenol *	1.405	1.503	1.449	1.457	1.290	1.421	5.7*
2,4,6-Tribromophenol	0.115	0.112	0.105	0.094	0.080	0.101	14.2
2-Chlorophenol-d4 *	1.575	1.512	1.403	1.300	1.084	1.375	14.1*
1,2-Dichlorobenzene-d4 *	1.060	0.980	0.920	0.833	0.729	0.904	14.2*

(1) Cannot be separated from Diphenylamine
* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ENVIROSYSTEMS, INC. Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Instrument ID: HP73G Calibration Date: 05/04/00 Time: 1434

Lab File ID: H73GB699 Init. Calib. Date(s): 05/01/00 05/01/00

EPA Sample No.(SSTD050##): SSTD050GX Init. Calib. Times: 0947 1259

GC Column: HP-5MS ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Benzaldehyde	0.526	0.916		74.1	
Phenol	1.568	1.842	0.800	17.5	25.0
bis(2-Chloroethyl)Ether	1.601	1.686	0.700	5.3	25.0
2-Chlorophenol	1.330	1.472	0.800	10.7	25.0
2-Methylphenol	1.363	1.553	0.700	13.9	25.0
2,2'-oxybis(1-Chloropropane)	1.268	1.416		11.7	
Acetophenone	1.854	2.077		12.0	
4-Methylphenol	1.315	1.543	0.600	17.3	25.0
N-Nitroso-di-n-propylamine	0.947	1.077	0.500	13.7	25.0
Hexachloroethane	0.799	0.849	0.300	6.3	25.0
Nitrobenzene	0.336	0.370	0.200	10.1	25.0
Isophorone	0.809	0.845	0.400	4.4	25.0
2-Nitrophenol	0.188	0.215	0.100	14.4	25.0
2,4-Dimethylphenol	0.323	0.321	0.200	-0.6	25.0
2,4-Dichlorophenol	0.257	0.281	0.200	9.3	25.0
Naphthalene	0.975	1.062	0.700	8.9	25.0
4-Chloroaniline	0.186	0.181		-2.7	
bis(2-Chloroethoxy)methane	0.439	0.474	0.300	8.0	25.0
Hexachlorobutadiene	0.127	0.138		8.7	
Caprolactam	0.118	0.130		10.2	
4-Chloro-3-methylphenol	0.280	0.332	0.200	18.6	25.0
2-Methylnaphthalene	0.637	0.667	0.400	4.7	25.0
Hexachlorocyclopentadiene	0.228	0.224		-1.8	
2,4,6-Trichlorophenol	0.315	0.351	0.200	11.4	25.0
2,4,5-Trichlorophenol	0.350	0.404	0.200	15.4	25.0
1,1'-Biphenyl	1.319	1.456		10.4	
2-Chloronaphthalene	1.068	1.180	0.800	10.5	25.0
2-Nitroaniline	0.287	0.302		5.2	
Dimethylphthalate	1.260	1.376		9.2	
2,6-Dinitrotoluene	0.311	0.340	0.200	9.3	25.0
Acenaphthylene	1.773	1.938	1.300	9.3	25.0
3-Nitroaniline	0.035	0.017		-51.4	
Acenaphthene	1.102	1.207	0.900	9.5	25.0
2,4-Dinitrophenol	0.102	0.108		5.9	
4-Nitrophenol	0.094	0.096		2.1	
Dibenzofuran	1.403	1.578	0.800	12.5	25.0

All other compounds must meet a minimum RRF of 0.010.

SAMPLE NO.

CSL55
CSL56
CSL57
CSL58
CSL61
CSL62MS
CSL62MSD
CSL63
CSL64
CSL65
CSL66

FORM VII SV-1

OLM04.2

11667

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ENVIROSYSTEMS, INC. Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Instrument ID: HP73G Calibration Date: 05/04/00 Time: 1434

Lab File ID: H73GB699 Init. Calib. Date(s): 05/01/00 05/01/00

EPA Sample No.(SSTD050##): SSTD050GX Init. Calib. Times: 0947 1259

GC Column: HP-5MS ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
2,4-Dinitrotoluene	0.376	0.426	0.200	13.3	25.0
Diethylphthalate	1.216	1.341		10.3	
Fluorene	1.128	1.250	0.900	10.8	25.0
4-Chlorophenyl-phenylether	0.454	0.504	0.400	11.0	25.0
4-Nitroaniline	0.165	0.185		12.1	
4,6-Dinitro-2-methylphenol	0.134	0.147		9.7	
N-Nitrosodiphenylamine(1)	0.442	0.465		5.2	
4-Bromophenyl-phenylether	0.191	0.210	0.100	9.9	25.0
Hexachlorobenzene	0.213	0.228	0.100	7.0	25.0
Atrazine	0.162	0.131		-19.1	
Pentachlorophenol	0.122	0.131	0.050	7.4	25.0
Phenanthrene	1.100	1.193	0.700	8.5	25.0
Anthracene	1.065	1.165	0.700	9.4	25.0
Carbazole	0.268	0.309		15.3	
Di-n-butylphthalate	1.559	1.687		8.2	
Fluoranthene	1.062	1.159	0.600	9.1	25.0
Pyrene	1.479	1.591	0.600	7.6	25.0
Butylbenzylphthalate	0.886	0.940		6.1	
3,3'-Dichlorobenzidine	0.166	0.124		-25.3	
Benzo(a)anthracene	1.092	1.216	0.800	11.4	25.0
Chrysene	1.009	1.123	0.700	11.3	25.0
bis(2-Ethylhexyl)phthalate	1.132	1.229		8.6	
Di-n-octylphthalate	2.411	2.632		9.2	
Benzo(b)fluoranthene	1.269	1.328	0.700	4.6	25.0
Benzo(k)fluoranthene	1.245	1.396	0.700	12.1	25.0
Benzo(a)pyrene	1.078	1.197	0.700	11.0	25.0
Indeno(1,2,3-cd)pyrene	0.780	0.897	0.500	15.0	25.0
Dibenzo(a,h)anthracene	0.707	0.814	0.400	15.1	25.0
Benzo(g,h,i)perylene	0.856	0.959	0.500	12.0	25.0
Nitrobenzene-d5	0.367	0.399	0.200	8.7	25.0
2-Fluorobiphenyl	1.144	1.252	0.700	9.4	25.0
Terphenyl-d14	0.972	1.041	0.500	7.1	25.0
Phenol-d5	1.502	1.732	0.800	15.3	25.0
2-Fluorophenol	1.421	1.571	0.600	10.6	25.0
2,4,6-Tribromophenol	0.101	0.114		12.9	
2-Chlorophenol-d4	1.375	1.537	0.800	11.8	25.0
1,2-Dichlorobenzene-d4	0.904	0.997	0.400	10.3	25.0

(1) Cannot be separated from Diphenylamine

All other compounds must meet a minimum RRF of 0.010.

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ENVIROSYSTEMS, INC. Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Instrument ID: HP73G Calibration Date: 05/05/00 Time: 0934

Lab File ID: H73GB721 Init. Calib. Date(s): 05/01/00 05/01/00

EPA Sample No.(SSTD050##): SSTD050GY Init. Calib. Times: 0947 1259

GC Column: HP-5MS ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D	
Benzaldehyde	0.526	0.992		88.6		
Phenol	1.568	2.075	0.800	32.3	25.0	<-
bis(2-Chloroethyl)Ether	1.601	1.737	0.700	8.5	25.0	
2-Chlorophenol	1.330	1.543	0.800	16.0	25.0	
2-Methylphenol	1.363	1.564	0.700	14.7	25.0	
2,2'-oxybis(1-Chloropropane)	1.268	1.527		20.4		
Acetophenone	1.854	2.026		9.3		
4-Methylphenol	1.315	1.546	0.600	17.6	25.0	
N-Nitroso-di-n-propylamine	0.947	1.048	0.500	10.7	25.0	
Hexachloroethane	0.799	0.843	0.300	5.5	25.0	
Nitrobenzene	0.336	0.391	0.200	16.4	25.0	
Isophorone	0.809	0.823	0.400	1.7	25.0	
2-Nitrophenol	0.188	0.214	0.100	13.8	25.0	
2,4-Dimethylphenol	0.323	0.314	0.200	-2.8	25.0	
2,4-Dichlorophenol	0.257	0.283	0.200	10.1	25.0	
Naphthalene	0.975	1.089	0.700	11.7	25.0	
4-Chloroaniline	0.186	0.197		5.9		
bis(2-Chloroethoxy)methane	0.439	0.495	0.300	12.8	25.0	
Hexachlorobutadiene	0.127	0.134		5.5		
Caprolactam	0.118	0.132		11.9		
4-Chloro-3-methylphenol	0.280	0.332	0.200	18.6	25.0	
2-Methylnaphthalene	0.637	0.723	0.400	13.5	25.0	
Hexachlorocyclopentadiene	0.228	0.199		-12.7		
2,4,6-Trichlorophenol	0.315	0.356	0.200	13.0	25.0	
2,4,5-Trichlorophenol	0.350	0.412	0.200	17.7	25.0	
1,1'-Biphenyl	1.319	1.554		17.8		
2-Chloronaphthalene	1.068	1.233	0.800	15.4	25.0	
2-Nitroaniline	0.287	0.360		25.4		
Dimethylphthalate	1.260	1.337		6.1		
2,6-Dinitrotoluene	0.311	0.338	0.200	8.7	25.0	
Acenaphthylene	1.773	2.022	1.300	14.0	25.0	
3-Nitroaniline	0.035	0.093		165.7		
Acenaphthene	1.102	1.244	0.900	12.9	25.0	
2,4-Dinitrophenol	0.102	0.101		-1.0		
4-Nitrophenol	0.094	0.100		6.4		
Dibenzofuran	1.403	1.618	0.800	15.3	25.0	

All other compounds must meet a minimum RRF of 0.010.

SAMPLE NO.
SBLK95

0E11677

7D

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ENVIROSYSTEMS, INC. Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Instrument ID: HP73G Calibration Date: 05/05/00 Time: 0934

Lab File ID: H73GB721 Init. Calib. Date(s): 05/01/00 05/01/00

EPA Sample No.(SSTD050##): SSTD050GY Init. Calib. Times: 0947 1259

GC Column: HP-5MS ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D	
2,4-Dinitrotoluene	0.376	0.423	0.200	12.5	25.0	
Diethylphthalate	1.216	1.304		7.2		
Fluorene	1.128	1.292	0.900	14.5	25.0	
4-Chlorophenyl-phenylether	0.454	0.532	0.400	17.2	25.0	
4-Nitroaniline	0.165	0.260		57.6		
4,6-Dinitro-2-methylphenol	0.134	0.135		0.7		
N-Nitrosodiphenylamine(1)	0.442	0.566		28.1		
4-Bromophenyl-phenylether	0.191	0.212	0.100	11.0	25.0	
Hexachlorobenzene	0.213	0.226	0.100	6.1	25.0	
Atrazine	0.162	0.165		1.9		
Pentachlorophenol	0.122	0.127	0.050	4.1	25.0	
Phenanthrene	1.100	1.220	0.700	10.9	25.0	
Anthracene	1.065	1.198	0.700	12.5	25.0	
Carbazole	0.268	0.677		152.6		
Di-n-butylphthalate	1.559	1.648		5.7		
Fluoranthene	1.062	1.148	0.600	8.1	25.0	
Pyrene	1.479	1.559	0.600	5.4	25.0	
Butylbenzylphthalate	0.886	0.888		0.2		
3,3'-Dichlorobenzidine	0.166	0.192		15.7		
Benzo(a)anthracene	1.092	1.194	0.800	9.3	25.0	
Chrysene	1.009	1.101	0.700	9.1	25.0	
bis(2-Ethylhexyl)phthalate	1.132	1.149		1.5		
Di-n-octylphthalate	2.411	2.486		3.1		
Benzo(b)fluoranthene	1.269	1.362	0.700	7.3	25.0	
Benzo(k)fluoranthene	1.245	1.372	0.700	10.2	25.0	
Benzo(a)pyrene	1.078	1.242	0.700	15.2	25.0	
Indeno(1,2,3-cd)pyrene	0.780	1.026	0.500	31.5	25.0	<-
Dibenzo(a,h)anthracene	0.707	0.976	0.400	38.0	25.0	<-
Benzo(g,h,i)perylene	0.856	1.074	0.500	25.5	25.0	<-
Nitrobenzene-d5	0.367	0.416	0.200	13.4	25.0	
2-Fluorobiphenyl	1.144	1.296	0.700	13.3	25.0	
Terphenyl-d14	0.972	1.049	0.500	7.9	25.0	
Phenol-d5	1.502	1.767	0.800	17.6	25.0	
2-Fluorophenol	1.421	1.608	0.600	13.2	25.0	
2,4,6-Tribromophenol	0.101	0.114		12.9		
2-Chlorophenol-d4	1.375	1.569	0.800	14.1	25.0	
1,2-Dichlorobenzene-d4	0.904	0.979	0.400	8.3	25.0	

(1) Cannot be separated from Diphenylamine

All other compounds must meet a minimum RRF of 0.010.

FORM VII SV-2 OLM04.2

061678

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ENVIROSYSTEMS, INC. Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Instrument ID: HP73G Calibration Date: 05/10/00 Time: 1042

Lab File ID: H73GB741 Init. Calib. Date(s): 05/01/00 05/01/00

EPA Sample No.(SSTD050##): SSTD050GD Init. Calib. Times: 0947 1259

GC Column: HP-5MS ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D	
Benzaldehyde	0.526	0.550		4.6		
Phenol	1.568	1.977	0.800	26.1	25.0	<-
bis(2-Chloroethyl)Ether	1.601	1.606	0.700	0.3	25.0	
2-Chlorophenol	1.330	1.508	0.800	13.4	25.0	
2-Methylphenol	1.363	1.592	0.700	16.8	25.0	
2,2'-oxybis(1-Chloropropane)	1.268	1.673		31.9		
Acetophenone	1.854	2.003		8.0		
4-Methylphenol	1.315	1.515	0.600	15.2	25.0	
N-Nitroso-di-n-propylamine	0.947	1.114	0.500	17.6	25.0	
Hexachloroethane	0.799	0.921	0.300	15.3	25.0	
Nitrobenzene	0.336	0.370	0.200	10.1	25.0	
Isophorone	0.809	0.866	0.400	7.0	25.0	
2-Nitrophenol	0.188	0.203	0.100	8.0	25.0	
2,4-Dimethylphenol	0.323	0.357	0.200	10.5	25.0	
2,4-Dichlorophenol	0.257	0.272	0.200	5.8	25.0	
Naphthalene	0.975	1.040	0.700	6.7	25.0	
4-Chloroaniline	0.186	0.130		-30.1		
bis(2-Chloroethoxy)methane	0.439	0.467	0.300	6.4	25.0	
Hexachlorobutadiene	0.127	0.141		11.0		
Caprolactam	0.118	0.135		14.4		
4-Chloro-3-methylphenol	0.280	0.325	0.200	16.1	25.0	
2-Methylnaphthalene	0.637	0.842	0.400	32.2	25.0	<-
Hexachlorocyclopentadiene	0.228	0.236		3.5		
2,4,6-Trichlorophenol	0.315	0.326	0.200	3.5	25.0	
2,4,5-Trichlorophenol	0.350	0.385	0.200	10.0	25.0	
1,1'-Biphenyl	1.319	1.386		5.1		
2-Chloronaphthalene	1.068	1.111	0.800	4.0	25.0	
2-Nitroaniline	0.287	0.334		16.4		
Dimethylphthalate	1.260	1.320		4.8		
2,6-Dinitrotoluene	0.311	0.325	0.200	4.5	25.0	
Acenaphthylene	1.773	1.904	1.300	7.4	25.0	
3-Nitroaniline	0.035	0.101		188.6		
Acenaphthene	1.102	1.182	0.900	7.3	25.0	
2,4-Dinitrophenol	0.102	0.066		-35.3		
4-Nitrophenol	0.094	0.100		6.4		
Dibenzofuran	1.403	1.503	0.800	7.1	25.0	

All other compounds must meet a minimum RRF of 0.010.

SAMPLE NO.
SBLK07
CSL60
CSL62
CSL67
CSL68
CSL69

FORM VII SV-1 OLM04.2

7D

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ENVIROSYSTEMS, INC. Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Instrument ID: HP73G Calibration Date: 05/10/00 Time: 1042

Lab File ID: H73GB741 Init. Calib. Date(s): 05/01/00 05/01/00

EPA Sample No.(SSTD050##): SSTD050GD Init. Calib. Times: 0947 1259

GC Column: HP-5MS ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
2,4-Dinitrotoluene	0.376	0.393	0.200	4.5	25.0
Diethylphthalate	1.216	1.267		4.2	
Fluorene	1.128	1.200	0.900	6.4	25.0
4-Chlorophenyl-phenylether	0.454	0.477	0.400	5.1	25.0
4-Nitroaniline	0.165	0.224		35.8	
4,6-Dinitro-2-methylphenol	0.134	0.117		-12.7	
N-Nitrosodiphenylamine(1)	0.442	0.528		19.5	
4-Bromophenyl-phenylether	0.191	0.202	0.100	5.8	25.0
Hexachlorobenzene	0.213	0.223	0.100	4.7	25.0
Atrazine	0.162	0.191		17.9	
Pentachlorophenol	0.122	0.105	0.050	-13.9	25.0
Phenanthrene	1.100	1.163	0.700	5.7	25.0
Anthracene	1.065	1.162	0.700	9.1	25.0
Carbazole	0.268	0.759		183.2	
Di-n-butylphthalate	1.559	1.611		3.3	
Fluoranthene	1.062	1.113	0.600	4.8	25.0
Pyrene	1.479	1.605	0.600	8.5	25.0
Butylbenzylphthalate	0.886	0.910		2.7	
3,3'-Dichlorobenzidine	0.166	0.155		-6.6	
Benzo(a)anthracene	1.092	1.168	0.800	7.0	25.0
Chrysene	1.009	1.073	0.700	6.3	25.0
bis(2-Ethylhexyl)phthalate	1.132	1.188		4.9	
Di-n-octylphthalate	2.411	2.505		3.9	
Benzo(b)fluoranthene	1.269	1.279	0.700	0.8	25.0
Benzo(k)fluoranthene	1.245	1.307	0.700	5.0	25.0
Benzo(a)pyrene	1.078	1.150	0.700	6.7	25.0
Indeno(1,2,3-cd)pyrene	0.780	0.843	0.500	8.1	25.0
Dibenzo(a,h)anthracene	0.707	0.842	0.400	19.1	25.0
Benzo(g,h,i)perylene	0.856	0.929	0.500	8.5	25.0
Nitrobenzene-d5	0.367	0.392	0.200	6.8	25.0
2-Fluorobiphenyl	1.144	1.182	0.700	3.3	25.0
Terphenyl-d14	0.972	1.067	0.500	9.8	25.0
Phenol-d5	1.502	1.687	0.800	12.3	25.0
2-Fluorophenol	1.421	1.483	0.600	4.4	25.0
2,4,6-Tribromophenol	0.101	0.110		8.9	
2-Chlorophenol-d4	1.375	1.508	0.800	9.7	25.0
1,2-Dichlorobenzene-d4	0.904	0.983	0.400	8.7	25.0

(1) Cannot be separated from Diphenylamine

All other compounds must meet a minimum RRF of 0.010.

FORM VII SV-2 OLM04.2

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ENVIROSYSTEMS Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

EPA Sample No. (VSTD050##): VSTD050CO Date Analyzed: 04/25/00

Lab File ID (Standard): 0425V3C1 Time Analyzed: 0910

Instrument ID: F5100C Heated Purge: (Y/N) Y

QC Column: RTX-502.2 ID: 0.530(mm)

		IS1(BCM) AREA #	RT #	IS2(DFB) AREA #	RT #	IS3(CBZ) AREA #	RT #
	12 HOUR STD	43913	11.42	203869	12.79	184865	17.27
	UPPER LIMIT	87826	11.92	407738	13.29	369730	17.77
	LOWER LIMIT	21956	10.92	101934	12.29	92432	16.77
	EPA SAMPLE NO.						
01	CSL55	29030	11.40	131055	12.77	118902	17.25
02	CSL56	28241	11.39	125912	12.77	112788	17.25
03	CSL57	31173	11.42	145396	12.77	129180	17.25
04	CSL58	27118	11.40	123944	12.77	114574	17.25
05	CSL60	24191	11.42	99475 *	12.77	76739 *	17.27
06	CSL61	26394	11.40	122318	12.79	114015	17.27
07	CSL62	27560	11.42	132375	12.79	125203	17.29
08	CSL63	29617	11.44	136449	12.79	126472	17.27
09	CSL64	28227	11.42	123424	12.79	96891	17.27
10	CSL65	32033	11.42	149262	12.79	136785	17.27
11	CSL62MS	28220	11.44	130057	12.80	117583	17.29
12	CSL62MSD	28998	11.44	132852	12.80	117393	17.27
13	VBLKCO	35095	11.42	163321	12.79	148995	17.27

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = + 100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = +0.50 minutes of internal standard RT.
RT LOWER LIMIT = -0.50 minutes of internal standard RT.

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ENVIROSYSTEMS Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

EPA Sample No. (VSTD050##): VSTD050CP Date Analyzed: 04/26/00

Lab File ID (Standard): 0426V3C1 Time Analyzed: 0843

Instrument ID: F5100C Heated Purge: (Y/N) Y

GC Column: RTX-502.2 ID: 0.530(mm)

		IS1(BCM) AREA #	RT #	IS2(DFB) AREA #	RT #	IS3(CBZ) AREA #	RT #
	12 HOUR STD	45695	11.40	208008	12.75	195761	17.25
	UPPER LIMIT	91390	11.90	416016	13.25	391522	17.75
	LOWER LIMIT	22848	10.90	104004	12.25	97880	16.75
	EPA SAMPLE NO.						
01	CSL60RE	25093	11.40	107032	12.77	84117 *	17.27
02	CSL66	35454	11.42	168222	12.79	145909	17.27
03	CSL67	29297	11.40	127296	12.77	93951 *	17.27
04	CSL67RE	25640	11.40	118334	12.77	90157 *	17.25
05	CSL68	27952	11.40	141892	12.77	114418	17.27
06	CSL69	26985	11.42	148443	12.77	135448	17.27
07	VHBLKCP	38077	11.42	168404	12.79	159643	17.25
08	VBLKCP	42415	11.40	194059	12.77	175751	17.27

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = + 100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = +0.50 minutes of internal standard RT.
RT LOWER LIMIT = -0.50 minutes of internal standard RT.

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

0000018

FORM VIII VOA

OLM04.2

2C

WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL45

	EPA SAMPLE NO.	S1 (NBZ) #	S2 (FBP) #	S3 (TPH) #	S4 (PHL) #	S5 (2FP) #	S6 (TBP) #	S7 (2CP) #	S8 (DCB) #	TOT OUT
01	SBLK92	52	50	66	48	49	55	52	42	0
02	CSL45	38	40*	44	40	39	36	43	34	1
03	CSL45MS	50	48	56	48	49	51	49	40	0
04	CSL45MSD	48	46	46	44	45	48	47	38	0
05	CSL46	46	44	52	45	43	43	47	34	0
06	CSL47	36	38*	38	35	35	32	39	32	1
07	CSL48	36	34*	40	35	37	31	37	30	1
08	CSL49	42	36*	28*	41	44	41	43	34	2
09	CSL50	62	58	56	61	67	63	61	50	0
10	CSL51	26*	24*	24*	24	25	25	27*	24	4
11	CSL52	20*	20*	24*	19	21	21	23*	18	4
12	CSL53	40	36*	18*	35	37	37	37	32	2
13	CSL54	44	40*	28*	43	45	48	44	34	2
14	CSL70	36	32*	52	35	37	39	36	28	1
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										

		QC LIMITS	
S1 (NBZ)	= Nitrobenzene-d5	(35-114)	
S2 (FBP)	= 2-Fluorobiphenyl	(43-116)	
S3 (TPH)	= Terphenyl-d14	(33-141)	
S4 (PHL)	= Phenol-d5	(10-110)	
S5 (2FP)	= 2-Fluorophenol	(21-110)	
S6 (TBP)	= 2,4,6-Tribromophenol	(10-123)	
S7 (2CP)	= 2-Chlorophenol-d4	(33-110)	(advisory)
S8 (DCB)	= 1,2-Dichlorobenzene-d4	(16-110)	(advisory)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

060226

2D
SOIL SEMIVOLATILE SURROGATE RECOVERY

Lab Name: ENVIROSYSTEMS, INC. Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Level:(low/med) LOW

	EPA SAMPLE NO.	S1 (NBZ) #	S2 (FBP) #	S3 (TPH) #	S4 (PHL) #	S5 (2FP) #	S6 (TBP) #	S7 (2CP) #	S8 (DCB) #	TOT OUT
01	CSL55	31	31	32	32	30	32	31	24	0
02	CSL56	30	30	30	30	28	30	30	24	0
03	CSL57	35	34	34	35	30	27	32	25	0
04	CSL58	30	30	34	29	28	32	29	23	0
05	CSL61	37	35	37	36	33	33	33	30	0
06	CSL62MS	32	31	32	30	28	33	29	28	0
07	CSL62MSD	36	34	35	33	31	33	32	30	0
08	CSL63	33	32	35	32	28	32	30	25	0
09	CSL64	32	33	33	33	28	33	31	25	0
10	CSL65	29	27*	29	30	27	29	28	19*	2
11	CSL66	36	34	36	33	31	33	32	27	0
12	SBLK95	31	32	34	31	28	30	30	29	0
13	SBLK07	52	49	56	52	52	52	52	47	0
14	CSL60	50	50	55	52	48	58	48	43	0
15	CSL62	44	45	50	47	47	53	43	39	0
16	CSL67	36	41	44	42	39	45	39	31	0
17	CSL68	37	38	41	37	37	40	37	31	0
18	CSL69	35	36	37	35	35	35	35	25	0
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										

		QC LIMITS	
S1 (NBZ)	= Nitrobenzene-d5	(23-120)	
S2 (FBP)	= 2-Fluorobiphenyl	(30-115)	
S3 (TPH)	= Terphenyl-d14	(18-137)	
S4 (PHL)	= Phenol-d5	(24-113)	
S5 (2FP)	= 2-Fluorophenol	(25-121)	
S6 (TBP)	= 2,4,6-Tribromophenol	(19-122)	
S7 (2CP)	= 2-Chlorophenol-d4	(20-130)	(advisory)
S8 (DCB)	= 1,2-Dichlorobenzene-d4	(20-130)	(advisory)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

2E

WATER PESTICIDE SURROGATE RECOVERY

Lab Name: ENVIROSYSTEMS Contract: 68W99023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL45

GC Column(1): RTXCLP ID: 0.53(mm) GC Column(2): RTXCLP2 ID: 0.53(mm)

	EPA SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	PBLK21	77	90	90	100			0
02	CSL45	16*	19*	16*	22*			4
03	CSL46	84	95	98	106			0
04	CSL47	88	103	112	116			0
05	CSL48	90	99	110	116			0
06	CSL49	41	52	15*	19*			2
07	CSL50	75	88	28*	38			1
08	CSL51	92	102	44	58			0
09	CSL52	82	94	40	51			0
10	CSL53	74	86	18*	18*			2
11	CSL54	89	94	25*	36			1
12	CSL70	81	92	86	93			0
13	CSL45MS	91	99	118	122			0
14	CSL45MSD	99	106	115	117			0

QC LIMITS

TCX = Tetrachloro-m-xylene (30-150)
DCB = Decachlorobiphenyl (30-150)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

FORM II PEST-1

061434

OLM04.2

2F
SOIL PESTICIDE SURROGATE RECOVERY

Lab Name: ENVIROSYSTEMS Contract: 68W99023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

GC Column(1): RTXCLP ID: 0.53(mm) GC Column(2): RTXCLP2 ID: 0.53(mm)

	EPA SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	PBLK23	70	71	63	77			0
02	CSL55	56	56	50	66			0
03	CSL56	52	53	48	67			0
04	CSL57	60	62	50	63			0
05	CSL58	63	55	48	58			0
06	CSL60	60	67	55	80			0
07	CSL61	66	68	64	66			0
08	CSL62	40	42	34	51			0
09	CSL63	60	61	52	68			0
10	CSL64	59	60	48	74			0
11	CSL65	39	41	33	46			0
12	CSL66	3*	3*	3*	4*			4
13	CSL67	40	32	26*	40			1
14	CSL68	5*	5*	8*	10*			4
15	CSL69	30	34	46	64			0
16	CSL62MS	64	65	52	70			0
17	CSL62MSD	63	62	50	63			0

QC LIMITS

TCX = Tetrachloro-m-xylene (30-150)
DCB = Decachlorobiphenyl (30-150)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

10A

PESTICIDE IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

CSL53

Lab Name: ENVIROSYSTEMS Contract: 68W99023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL45

Lab Sample ID : 00041161 Dates(s) Analyzed: 05/09/00 05/09/00

Instrument ID (1): HP90C1 Instrument ID (2): HP90C2

GC Column(1): RTXCLP ID: 0.53(mm) GC Column(2): RTXCLP2 ID: 0.53(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
Methoxychlor	1	14.17	14.06	14.20	1.35	
	2	16.66	16.57	16.71	0.855	57.9

FORM X PEST-1

040523

OLM04.2

EPA SAMPLE NO.

PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

CSL45MS

Lab Name: ENVIROSYSTEMS Contract: 68W99023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL45

Lab Sample ID : 00041153MS Dates(s) Analyzed: 05/09/00 05/09/00

Instrument ID (1): HP90C1 Instrument ID (2): HP90C2

GC Column(1): RTXCLP ID: 0.53(mm) GC Column(2): RTXCLP2 ID: 0.53(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
gamma-BHC (Lindane)	1	8.03	7.98	8.08	0.555	
	2	9.75	9.70	9.80	0.529	4.9
Heptachlor	1	9.00	8.93	9.07	0.569	
	2	10.71	10.65	10.79	0.587	3.2
Aldrin	1	9.60	9.53	9.67	0.566	
	2	11.41	11.34	11.48	0.521	8.6
Dieldrin	1	12.05	11.98	12.12	1.16	
	2	13.92	13.86	14.00	1.16	0.0
Endrin	1	12.49	12.42	12.56	1.35	
	2	14.53	14.47	14.61	1.32	2.3
4,4'-DDT	1	13.18	13.11	13.25	0.877	
	2	15.32	15.25	15.39	1.01	15.2

FORM X PEST-1

10A

PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

CSL45MSD

Lab Name: ENVIROSYSTEMS Contract: 68W99023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL45

Lab Sample ID : 00041153MSD Dates(s) Analyzed: 05/09/00 05/09/00

Instrument ID (1): HP90C1 Instrument ID (2): HP90C2

GC Column(1): RTXCLP ID: 0.53(mm) GC Column(2): RTXCLP2 ID: 0.53(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
gamma-BHC (Lindane)	1	8.03	7.98	8.08	0.570	
	2	9.75	9.70	9.80	0.542	5.2
Heptachlor	1	8.99	8.93	9.07	0.583	
	2	10.71	10.65	10.79	0.594	1.9
Aldrin	1	9.60	9.53	9.67	0.573	
	2	11.41	11.34	11.48	0.544	5.3
Dieldrin	1	12.05	11.98	12.12	1.19	
	2	13.92	13.86	14.00	1.19	0.0
Endrin	1	12.49	12.42	12.56	1.36	
	2	14.53	14.47	14.61	1.32	3.0
4,4'-DDT	1	13.18	13.11	13.25	0.836	
	2	15.32	15.25	15.39	0.983	17.6

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

CSL60

Lab Name: ENVIROSYSTEMS Contract: 68W99023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Lab Sample ID : 00041169 Dates(s) Analyzed: 05/04/00 05/04/00

Instrument ID (1): HP90C1 Instrument ID (2): HP90C2

GC Column(1): RTXCLP ID: 0.53(mm) GC Column(2): RTXCLP2 ID: 0.53(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
4,4'-DDE	1	11.56	11.49	11.63	4.78	
	2	13.63	13.56	13.70	3.84	24.5
4,4'-DDT	1	13.24	13.17	13.31	5.10	
	2	15.39	15.31	15.45	4.07	25.3

FORM X PEST-1

0011855

OLM04.2

10A

PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

CSL67

Lab Name: ENVIROSYSTEMS Contract: 68W99023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Lab Sample ID : 00041176 Dates(s) Analyzed: 05/05/00 05/05/00

Instrument ID (1): HP90C1 Instrument ID (2): HP90C2

GC Column(1): RTXCLP ID: 0.53(mm) GC Column(2): RTXCLP2 ID: 0.53(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
4,4'-DDT	1	13.24	13.17	13.31	10.6	
	2	15.38	15.31	15.45	7.58	39.8

FORM X PEST-1

01-0856

OLM04.2

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

CSL62MS

Lab Name: ENVIROSYSTEMS Contract: 68W99023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Lab Sample ID : 00041171MS Dates(s) Analyzed: 05/04/00 05/04/00

Instrument ID (1): HP90C1 Instrument ID (2): HP90C2

GC Column(1): RTXCLP ID: 0.53(mm) GC Column(2): RTXCLP2 ID: 0.53(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
gamma-BHC (Lindane)	1	8.09	8.04	8.14	10.7	
	2	9.81	9.76	9.86	10.9	1.9
Heptachlor	1	9.06	8.99	9.13	12.2	
	2	10.78	10.71	10.85	11.4	7.0
Aldrin	1	9.66	9.59	9.73	11.4	
	2	11.47	11.40	11.54	10.7	6.5
Dieldrin	1	12.11	12.04	12.18	24.8	
	2	13.99	13.92	14.06	24.0	3.3
Endrin	1	12.55	12.48	12.62	48.2	
	2	14.60	14.53	14.67	32.2	49.7
4,4'-DDT	1	13.24	13.17	13.31	46.5	
	2	15.38	15.31	15.45	27.5	69.1

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

CSL62MSD

Lab Name: ENVIROSYSTEMS Contract: 68W99023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Lab Sample ID : 00041171MSD Dates(s) Analyzed: 05/04/00 05/04/00

Instrument ID (1): HP90C1 Instrument ID (2): HP90C2

GC Column(1): RTXCLP ID: 0.53(mm) GC Column(2): RTXCLP2 ID: 0.53(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
gamma-BHC (Lindane)	1	8.08	8.04	8.14	11.2	
	2	9.81	9.76	9.86	11.1	0.9
Heptachlor	1	9.05	8.99	9.13	12.6	
	2	10.77	10.71	10.85	12.5	0.8
Aldrin	1	9.66	9.59	9.73	12.4	
	2	11.47	11.40	11.54	11.5	7.8
Dieldrin	1	12.11	12.04	12.18	24.7	
	2	13.99	13.92	14.06	24.2	2.1
Endrin	1	12.55	12.48	12.62	32.1	
	2	14.60	14.53	14.67	28.2	13.8
4,4'-DDT	1	13.24	13.17	13.31	26.6	
	2	15.38	15.31	15.45	23.8	11.8

ENVIROSYSTEMS, INC
SEMIVOLATILES
EXTRACTION LOG BOOK

CLIENT: EPA Regions MATRIX: SOIL/WATER/OTHER_____ SOX/SONC/SEPF/CONT

CLP CASE#: 2798 DATE REC'D: 04/20/00 DATE EXTRACTED: 04/26/00

EXTRACTION CHEMIST: QJ METHOD: Soil/CLP

SURROGATE SOL'N. #: S-263 SURROGATE CONC. : 100/150 ppm

MATRIX SPIKE SOL'N. : S-196 MATRIX SPIKE CONC.: 100/150 ppm

LAB ID	CLIENT ID	SAMPLE VOL/WT	SPIKE SURR.	VOL MS	GPC Y/N	FINAL VOL.	STORAGE REFRIG#	INIT PH
04265SB1	SB1K94	30g	0.5ml	T	Y	0.5ml	#7	
04265SB2	SB1K95							
00041165	CSL55							
1166	CSL56							
1167	CSL57							
1168	CSL58							
1169	CSL60							
1170	CSL61							
1171	CSL62							
1171MS	CSL62MS			0.5ml				
1171MSD	CSL62MSD							
1172	CSL63			T				
1173	CSL64							
1174	CSL65							
1175	CSL66							
1176	CSL67							

COMMENTS:

ENVIROSYSTEMS, INC
SEMIVOLATILES
EXTRACTION LOG BOOK

CLIENT: EPA REGION 3 MATRIX: SOIL/WATER/OTHER_____ SOX/SONC/SEPF/CONT

CLP CASE#: 27781 DATE REC'D: 04/22/00 DATE EXTRACTED: 04/26/00

EXTRACTION CHEMIST: QJ METHOD: soil/cp

SURROGATE SOL'N. #: S-253 SURROGATE CONC. : 100/100 ppm

MATRIX SPIKE SOL'N. :_____ MATRIX SPIKE CONC.:_____

LAB ID	CLIENT ID	SAMPLE VOL/WT	SPIKE SURR.	VOL MS	GPC Y/N	FINAL VOL.	STORAGE REFRIG#	INIT PH
00041177	CSL68	30g	0.5ml	—	Y	0.5ml	#7	
00041178	CSL69	↓	↓	↓	↓	↓	↓	

COMMENTS:

000098

000972

ENVIROSYSTEMS, INC
SEMIVOLATILES
EXTRACTION LOG BOOK

CLIENT: EPA MATRIX: SOIL/WATER/OTHER_____ SOX/SONC/SEPF/CONT

CLP CASE#: 27981 DATE REC'D: 4/22/00 DATE EXTRACTED: 5/5/00

EXTRACTION CHEMIST: QJ METHOD: CLP

SURROGATE SOL'N. #:_____ SURROGATE CONC. :_____

MATRIX SPIKE SOL'N. :_____ MATRIX SPIKE CONC.:_____

LAB ID	CLIENT ID	SAMPLE VOL/WT	SPIKE SURR.	VOL MS	GPC Y/N	FINAL VOL.	STORAGE REFRIG#	INIT PH
05055SB3	SBLK07	30g	0.5ml		Y	0.5ml	#7	
05055SB4	SBLK08							
00041169	CSL60							
00041171	CSL62							
00041176	CSL67							

COMMENTS:

000009
041973

ENVIROSYSTEMS, INC.
SOIL PERCENT MOISTURE DETERMINATION - GRAVIMETRIC

CLIENT: EPA Region 3 CASE: 27981

DATE: 04/26/00 BALANCE ID: Galaxy

ANALYST: MS 5.0 GRAM WEIGTH:

ENVIROSYSTEMS ID	CLIENT ID	WEIGHT CONTAINER	NET WET WEIGHT	DRY WT. + CONTAINER	NET DRY WEIGHT	PERCENT MOISTURE
0004 1165	CSL 55	2.33	14.44	14.66	12.33	14.6%
1166	CSL 56	2.35	16.30	14.77	12.42	23.8%
1167	CSL 57	2.34	18.27	12.59	10.25	44.3%
1168	CSL 58	2.32	18.10	15.74	13.42	25.8%
1169	CSL 60	2.32	12.46	11.73	9.41	24.4%
1170	CSL 61	2.33	9.64	9.61	7.28	24.5%
1171	CSL 62	2.36	11.97	12.13	9.77	18.3%
1172	CSL 63	2.34	10.92	11.27	8.93	18.2%
1173	CSL 64	2.32	18.60	15.17	12.85	30.9%
1174	CSL 65	2.35	12.84	13.17	11.35	11.6%
1175	CSL 66	2.32	11.32	11.62	9.3	17.8%
1176	CSL 67	2.35	13.66	13.45	11.1	18.7%
1177	CSL 68	2.34	15.99	15.36	13.02	18.5%
1178	CSL 69	2.33	10.34	9.63	7.3	29.4%

PERCENT MOISTURE = 100% x (net wet wt. - net dry wt.) / (net wet wt.)

000022

041967

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL60

Lab Name: ENVIROSYSTEMS Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Matrix: (soil/water) SOIL Lab Sample ID: 00041169

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 041169R

Level: (low/med) LOW Date Received: 04/22/00

% Moisture: not dec. 24 Date Analyzed: 04/25/00

GC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	13	U
74-87-3	Chloromethane	13	U
75-01-4	Vinyl Chloride	13	U
74-83-9	Bromomethane	13	U
75-00-3	Chloroethane	13	U
75-69-4	Trichlorofluoromethane	13	U
75-35-4	1,1-Dichloroethene	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluo	13	U
	1,2,2-trifluoroethane	13	U
67-64-1	Acetone	13	U
75-15-0	Carbon Disulfide	13	U
79-20-9	Methyl Acetate	13	U
75-09-2	Methylene Chloride	13	U
156-60-5	trans-1,2-Dichloroethene	13	U
1634-04-4	tert-Butyl Methyl Ether	13	U
75-34-3	1,1-Dichloroethane	13	U
156-59-2	cis-1,2-Dichloroethene	13	U
78-93-3	2-Butanone	13	U
67-66-3	Chloroform	13	U
71-55-6	1,1,1-Trichloroethane	13	U
110-82-7	Cyclohexane	13	U
56-23-5	Carbon Tetrachloride	13	U
71-43-2	Benzene	13	U
107-06-2	1,2-Dichloroethane	13	U

0 0056

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL60

Lab Name: ENVIROSYSTEMS Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Matrix: (soil/water) SOIL Lab Sample ID: 00041169

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 041169R

Level: (low/med) LOW Date Received: 04/22/00

% Moisture: not dec. 24 Date Analyzed: 04/25/00

GC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	13	U
108-87-2	Methylcyclohexane	13	U
78-87-5	1,2-Dichloropropane	13	U
75-27-4	Bromodichloromethane	13	U
10061-01-5	cis-1,3-Dichloropropene	13	U
108-10-1	4-Methyl-2-Pentanone	13	U
108-88-3	Toluene	13	U
10061-02-6	trans-1,3-Dichloropropene	13	U
79-00-5	1,1,2-Trichloroethane	13	U
127-18-4	Tetrachloroethene	13	U
591-78-6	2-Hexanone	13	U
124-48-1	Dibromochloromethane	13	U
106-93-4	1,2-Dibromoethane	13	U
108-90-7	Chlorobenzene	13	U
100-41-4	Ethylbenzene	13	U
1330-20-7	Xylene (total)	13	U
100-42-5	Styrene	13	U
75-25-2	Bromoform	13	U
98-82-8	Isopropylbenzene	13	U
79-34-5	1,1,2,2-Tetrachloroethane	13	U
541-73-1	1,3 Dichlorobenzene	13	U
106-46-7	1,4 Dichlorobenzene	13	U
95-50-1	1,2 Dichlorobenzene	13	U
96-12-8	1,2-Dibromo-3-chloropropane	13	U
120-82-1	1,2,4-Trichlorobenzene	13	U

040057

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CSL60

Lab Name: ENVIROSYSTEMS Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Matrix: (soil/water) SOIL Lab Sample ID: 00041169

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 041169R

Level: (low/med) LOW Date Received: 04/22/00

% Moisture: not dec. 24 Date Analyzed: 04/25/00

GC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

0 0058

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL67RE

Lab Name: ENVIROSYSTEMS Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Matrix: (soil/water) SOIL Lab Sample ID: 00041176

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 041176RE

Level: (low/med) LOW Date Received: 04/22/00

% Moisture: not dec. 19 Date Analyzed: 04/26/00

GC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	12	U
74-87-3	Chloromethane	12	U
75-01-4	Vinyl Chloride	12	U
74-83-9	Bromomethane	12	U
75-00-3	Chloroethane	12	U
75-69-4	Trichlorofluoromethane	12	U
75-35-4	1,1-Dichloroethene	12	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluo	12	U
	1,2,2-trifluoroethane	12	U
67-64-1	Acetone	20	
75-15-0	Carbon Disulfide	12	U
79-20-9	Methyl Acetate	12	U
75-09-2	Methylene Chloride	12	U
156-60-5	trans-1,2-Dichloroethene	12	U
1634-04-4	tert-Butyl Methyl Ether	12	U
75-34-3	1,1-Dichloroethane	12	U
156-59-2	cis-1,2-Dichloroethene	12	U
78-93-3	2-Butanone	12	U
67-66-3	Chloroform	12	U
71-55-6	1,1,1-Trichloroethane	12	U
110-82-7	Cyclohexane	12	U
56-23-5	Carbon Tetrachloride	12	U
71-43-2	Benzene	12	U
107-06-2	1,2-Dichloroethane	12	U

041155

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL67RE

Lab Name: ENVIROSYSTEMS Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Matrix: (soil/water) SOIL Lab Sample ID: 00041176

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 041176RE

Level: (low/med) LOW Date Received: 04/22/00

% Moisture: not dec. 19 Date Analyzed: 04/26/00

GC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	G
79-01-6	Trichloroethene	12	U
108-87-2	Methylcyclohexane	12	U
78-87-5	1,2-Dichloropropane	12	U
75-27-4	Bromodichloromethane	12	U
10061-01-5	cis-1,3-Dichloropropene	12	U
108-10-1	4-Methyl-2-Pentanone	12	U
108-88-3	Toluene	5	J
10061-02-6	trans-1,3-Dichloropropene	12	U
79-00-5	1,1,2-Trichloroethane	12	U
127-18-4	Tetrachloroethene	12	U
591-78-6	2-Hexanone	12	U
124-48-1	Dibromochloromethane	12	U
106-93-4	1,2-Dibromoethane	12	U
108-90-7	Chlorobenzene	12	U
100-41-4	Ethylbenzene	12	U
1330-20-7	Xylene (total)	12	U
100-42-5	Styrene	12	U
75-25-2	Bromoform	12	U
98-82-8	Isopropylbenzene	12	U
79-34-5	1,1,2,2-Tetrachloroethane	12	U
541-73-1	1,3 Dichlorobenzene	12	U
106-46-7	1,4 Dichlorobenzene	12	U
95-50-1	1,2 Dichlorobenzene	12	U
96-12-8	1,2-Dibromo-3-chloropropane	12	U
120-82-1	1,2,4-Trichlorobenzene	12	U

0C0156

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CSL67RE

Lab Name: ENVIROSYSTEMS Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Matrix: (soil/water) SOIL Lab Sample ID: 00041176

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 041176RE

Level: (low/med) LOW Date Received: 04/22/00

% Moisture: not dec. 19 Date Analyzed: 04/26/00

GC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

0041157

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ENVIROSYSTEMS Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL45

Matrix Spike - EPA Sample No.: CSL45

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC.
1,1-Dichloroethene	50.00	0	47.52	95	61-145
Trichloroethene	50.00	0	51.39	103	71-120
Benzene	50.00	0	51.72	103	76-127
Toluene	50.00	0	51.10	102	76-125
Chlorobenzene	50.00	0	51.05	102	75-130

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	50.00	41.31	83	13	14	61-145
Trichloroethene	50.00	52.20	104	1	14	71-120
Benzene	50.00	52.49	105	2	11	76-127
Toluene	50.00	51.53	103	1	13	76-125
Chlorobenzene	50.00	51.88	104	2	13	75-130

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

* Values outside of QC limits

RPD: 0 out of 5 outside limits
Spike Recovery: 0 out of 10 outside limits

COMMENTS: 00041153 CSL45 CASE 27981 SDG CSL45 4/22
F5100B 35(5)/240/10 WB

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL45MS

Lab Name: ENVIROSYSTEMS Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL45

Matrix: (soil/water) WATER Lab Sample ID: 00041153

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 041153MS

Level: (low/med) LOW Date Received: 04/22/00

% Moisture: not dec. Date Analyzed: 04/25/00

GC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	48	
76-13-1	1,1,2-Trichloro-1,2,2-trifluo	10	U
	1,2,2-trifluoroethane	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
79-20-9	Methyl Acetate	10	U
75-09-2	Methylene Chloride	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	tert-Butyl Methyl Ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	10	U
56-23-5	Carbon Tetrachloride	10	U
71-43-2	Benzene	52	
107-06-2	1,2-Dichloroethane	10	U

060207

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL45MS

Lab Name: ENVIROSYSTEMS Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL45

Matrix: (soil/water) WATER Lab Sample ID: 00041153

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 041153MS

Level: (low/med) LOW Date Received: 04/22/00

% Moisture: not dec. Date Analyzed: 04/25/00

GC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-01-6	Trichloroethene	51	
108-87-2	Methylcyclohexane	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
108-88-3	Toluene	51	
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	51	
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3 Dichlorobenzene	10	U
106-46-7	1,4 Dichlorobenzene	10	U
95-50-1	1,2 Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL45MSD

Lab Name: ENVIROSYSTEMS Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL45

Matrix: (soil/water) WATER Lab Sample ID: 00041153

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 041153MSD

Level: (low/med) LOW Date Received: 04/22/00

% Moisture: not dec. Date Analyzed: 04/25/00

GC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	41	
76-13-1	1,1,2-Trichloro-1,2,2-trifluo	10	U
	1,2,2-trifluoroethane	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
79-20-9	Methyl Acetate	10	U
75-09-2	Methylene Chloride	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	tert-Butyl Methyl Ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	10	U
56-23-5	Carbon Tetrachloride	10	U
71-43-2	Benzene	52	
107-06-2	1,2-Dichloroethane	10	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL45MSD

Lab Name: ENVIROSYSTEMS Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL45

Matrix: (soil/water) WATER Lab Sample ID: 00041153

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 041153MSD

Level: (low/med) LOW Date Received: 04/22/00

% Moisture: not dec. Date Analyzed: 04/25/00

GC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-01-6	Trichloroethene	52	
108-87-2	Methylcyclohexane	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
108-88-3	Toluene	52	
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	52	
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3 Dichlorobenzene	10	U
106-46-7	1,4 Dichlorobenzene	10	U
95-50-1	1,2 Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U

041217

3B

SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ENVIROSYSTEMS Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Matrix Spike - EPA Sample No.: CSL62 Level: (low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC.
1,1-Dichloroethene	61.00	0	65.37	107	59-172
Trichloroethene	61.00	0	57.42	94	62-137
Benzene	61.00	0	59.31	97	66-142
Toluene	61.00	0	59.71	98	59-139
Chlorobenzene	61.00	0	58.11	95	60-133

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	61.00	61.83	101	6	22	59-172
Trichloroethene	61.00	57.32	94	0	24	62-137
Benzene	61.00	58.77	96	1	21	66-142
Toluene	61.00	60.49	99	1	21	59-139
Chlorobenzene	61.00	60.10	99	4	21	60-133

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

* Values outside of QC limits

RPD: 0 out of 5 outside limits
Spike Recovery: 0 out of 10 outside limits

COMMENTS: 00041171 CSL62 CASE 27981 SDG CSL55 4/22 5G HP
F5100C 35(5)/240/10 WB

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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL62MS

Lab Name: ENVIROSYSTEMS Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Matrix: (soil/water) SOIL Lab Sample ID: 00041171

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 041171MS

Level: (low/med) LOW Date Received: 04/22/00

% Moisture: not dec. 18 Date Analyzed: 04/25/00

GC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	12	U
74-87-3	Chloromethane	12	U
75-01-4	Vinyl Chloride	12	U
74-83-9	Bromomethane	12	U
75-00-3	Chloroethane	12	U
75-69-4	Trichlorofluoromethane	12	U
75-35-4	1,1-Dichloroethene	65	
76-13-1	1,1,2-Trichloro-1,2,2-trifluo	12	U
	1,2,2-trifluoroethane	12	U
67-64-1	Acetone	12	U
75-15-0	Carbon Disulfide	12	U
79-20-9	Methyl Acetate	12	U
75-09-2	Methylene Chloride	12	U
156-60-5	trans-1,2-Dichloroethene	12	U
1634-04-4	tert-Butyl Methyl Ether	12	U
75-34-3	1,1-Dichloroethane	12	U
156-59-2	cis-1,2-Dichloroethene	12	U
78-93-3	2-Butanone	12	U
67-66-3	Chloroform	12	U
71-55-6	1,1,1-Trichloroethane	12	U
110-82-7	Cyclohexane	12	U
56-23-5	Carbon Tetrachloride	12	U
71-43-2	Benzene	59	
107-06-2	1,2-Dichloroethane	12	U

0..0278

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL62MS

Lab Name: ENVIROSYSTEMS Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Matrix: (soil/water) SOIL Lab Sample ID: 00041171

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 041171MS

Level: (low/med) LOW Date Received: 04/22/00

% Moisture: not dec. 18 Date Analyzed: 04/25/00

GC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	57	
108-87-2	Methylcyclohexane	12	U
78-87-5	1,2-Dichloropropane	12	U
75-27-4	Bromodichloromethane	12	U
10061-01-5	cis-1,3-Dichloropropene	12	U
108-10-1	4-Methyl-2-Pentanone	12	U
108-88-3	Toluene	60	
10061-02-6	trans-1,3-Dichloropropene	12	U
79-00-5	1,1,2-Trichloroethane	12	U
127-18-4	Tetrachloroethene	12	U
591-78-6	2-Hexanone	12	U
124-48-1	Dibromochloromethane	12	U
106-93-4	1,2-Dibromoethane	12	U
108-90-7	Chlorobenzene	58	
100-41-4	Ethylbenzene	12	U
1330-20-7	Xylene (total)	12	U
100-42-5	Styrene	12	U
75-25-2	Bromoform	12	U
98-82-8	Isopropylbenzene	12	U
79-34-5	1,1,2,2-Tetrachloroethane	12	U
541-73-1	1,3 Dichlorobenzene	12	U
106-46-7	1,4 Dichlorobenzene	12	U
95-50-1	1,2 Dichlorobenzene	12	U
96-12-8	1,2-Dibromo-3-chloropropane	12	U
120-82-1	1,2,4-Trichlorobenzene	12	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL62MSD

Lab Name: ENVIROSYSTEMS Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Matrix: (soil/water) SOIL Lab Sample ID: 00041171

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 041171MSD

Level: (low/med) LOW Date Received: 04/22/00

% Moisture: not dec. 18 Date Analyzed: 04/25/00

GC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	12	U
74-87-3	Chloromethane	12	U
75-01-4	Vinyl Chloride	12	U
74-83-9	Bromomethane	12	U
75-00-3	Chloroethane	12	U
75-69-4	Trichlorofluoromethane	12	U
75-35-4	1,1-Dichloroethene	62	
76-13-1	1,1,2-Trichloro-1,2,2-trifluo	12	U
	1,2,2-trifluoroethane	12	U
67-64-1	Acetone	18	
75-15-0	Carbon Disulfide	12	U
79-20-9	Methyl Acetate	12	U
75-09-2	Methylene Chloride	12	U
156-60-5	trans-1,2-Dichloroethene	12	U
1634-04-4	tert-Butyl Methyl Ether	12	U
75-34-3	1,1-Dichloroethane	12	U
156-59-2	cis-1,2-Dichloroethene	12	U
78-93-3	2-Butanone	12	U
67-66-3	Chloroform	12	U
71-55-6	1,1,1-Trichloroethane	12	U
110-82-7	Cyclohexane	12	U
56-23-5	Carbon Tetrachloride	12	U
71-43-2	Benzene	59	
107-06-2	1,2-Dichloroethane	12	U

0..11287

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL62MSD

Lab Name: ENVIROSYSTEMS Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Matrix: (soil/water) SOIL Lab Sample ID: 00041171

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 041171MSD

Level: (low/med) LOW Date Received: 04/22/00

% Moisture: not dec. 18 Date Analyzed: 04/25/00

GC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	57	
108-87-2	Methylcyclohexane	12	U
78-87-5	1,2-Dichloropropane	12	U
75-27-4	Bromodichloromethane	12	U
10061-01-5	cis-1,3-Dichloropropene	12	U
108-10-1	4-Methyl-2-Pentanone	12	U
108-88-3	Toluene	61	
10061-02-6	trans-1,3-Dichloropropene	12	U
79-00-5	1,1,2-Trichloroethane	12	U
127-18-4	Tetrachloroethene	12	U
591-78-6	2-Hexanone	12	U
124-48-1	Dibromochloromethane	12	U
106-93-4	1,2-Dibromoethane	12	U
108-90-7	Chlorobenzene	60	
100-41-4	Ethylbenzene	12	U
1330-20-7	Xylene (total)	12	U
100-42-5	Styrene	12	U
75-25-2	Bromoform	12	U
98-82-8	Isopropylbenzene	12	U
79-34-5	1,1,2,2-Tetrachloroethane	12	U
541-73-1	1,3 Dichlorobenzene	12	U
106-46-7	1,4 Dichlorobenzene	12	U
95-50-1	1,2 Dichlorobenzene	12	U
96-12-8	1,2-Dibromo-3-chloropropane	12	U
120-82-1	1,2,4-Trichlorobenzene	12	U

0..11288

WATER SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL45

Matrix Spike - EPA Sample No.: CSL45

COMPOUND	SPIKE ADDED (UG/L)	SAMPLE AMOUNT (UG/L)	MS AMOUNT (UG/L)	MS % REC #	QC. LIMITS REC.
Phenol	75	0.0	38	51	12-110
2-Chlorophenol	75	0.0	40	53	27-123
N-Nitroso-di-n-prop.(1)	50	0.0	25	50	41-116
4-Chloro-3-methylphenol	75	0.0	38	51	23- 97
Acenaphthene	50	0.0	28	56	46-118
4-Nitrophenol	75	0.0	39	52	10- 80
2,4-Dinitrotoluene	50	0.0	27	54	24- 96
Pentachlorophenol	75	0.0	44	59	9-103
Pyrene	50	0.0	33	66	26-127

COMPOUND	SPIKE ADDED (UG/L)	MSD AMOUNT (UG/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	75	35	47	8	42	12-110
2-Chlorophenol	75	38	51	4	40	27-123
N-Nitroso-di-n-prop.(1)	50	23	46	8	38	41-116
4-Chloro-3-methylphenol	75	34	45	13	42	23- 97
Acenaphthene	50	26	52	7	31	46-118
4-Nitrophenol	75	31	41	24	50	10- 80
2,4-Dinitrotoluene	50	22	44	20	38	24- 96
Pentachlorophenol	75	39	52	13	50	9-103
Pyrene	50	28	56	16	31	26-127

(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 9 outside limits
Spike Recovery: 0 out of 18 outside limits

COMMENTS: _____

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL45MS

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL45

Matrix: (soil/water) WATER Lab Sample ID: 00041153MS

Sample wt/vol: 1000 (g/mL) ML Lab File ID: H73GB684

Level: (low/med) LOW Date Received: 04/21/00

% Moisture: _____ Decanted: (Y/N)___ Date Extracted: 04/25/00

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/02/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-52-7	Benzaldehyde	10	U
108-95-2	Phenol	38	
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	40	
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
98-86-2	Acetophenone	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	25	
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
120-83-2	2,4-Dichlorophenol	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
87-68-3	Hexachlorobutadiene	10	U
105-60-2	Caprolactam	10	U
59-50-7	4-Chloro-3-methylphenol	38	
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	25	U
92-52-4	1,1'-Biphenyl	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
208-96-8	Acenaphthylene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	28	

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL45MS

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL45

Matrix: (soil/water) WATER Lab Sample ID: 00041153MS

Sample wt/vol: 1000 (g/mL) ML Lab File ID: H73GB684

Level: (low/med) LOW Date Received: 04/21/00

% Moisture: _____ Decanted: (Y/N)___ Date Extracted: 04/25/00

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/02/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	39	
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	27	
84-66-2	Diethylphthalate	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
1912-24-9	Atrazine	10	U
87-86-5	Pentachlorophenol	44	
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	33	
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL45MSD

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL45

Matrix: (soil/water) WATER Lab Sample ID: 00041153MSD

Sample wt/vol: 1000 (g/mL) ML Lab File ID: H73GB685

Level: (low/med) LOW Date Received: 04/21/00

% Moisture: _____ Decanted: (Y/N)___ Date Extracted: 04/25/00

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/02/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-52-7	Benzaldehyde	10	U
108-95-2	Phenol	35	
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	38	
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
98-86-2	Acetophenone	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	23	
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
120-83-2	2,4-Dichlorophenol	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
87-68-3	Hexachlorobutadiene	10	U
105-60-2	Caprolactam	10	U
59-50-7	4-Chloro-3-methylphenol	34	
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	25	U
92-52-4	1,1'-Biphenyl	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
208-96-8	Acenaphthylene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	26	

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL45MSD

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL45

Matrix: (soil/water) WATER Lab Sample ID: 00041153MSD

Sample wt/vol: 1000 (g/mL) ML Lab File ID: H73GB685

Level: (low/med) LOW Date Received: 04/21/00

% Moisture: _____ Decanted: (Y/N)___ Date Extracted: 04/25/00

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/02/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	31	
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	22	
84-66-2	Diethylphthalate	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
1912-24-9	Atrazine	10	U
87-86-5	Pentachlorophenol	39	
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	28	
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

3D

SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ENVIROSYSTEMS, INC. Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Matrix Spike - EPA Sample No.: CSL62 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE AMOUNT (UG/L)	MS AMOUNT (ug/Kg)	MS % REC #	QC. LIMITS REC.
Phenol	3000	0.0	1000	33	26- 90
2-Chlorophenol	3000	0.0	1000	33	25-102
N-Nitroso-di-n-prop.(1)	2000	0.0	660	33*	41-126
4-Chloro-3-methylphenol	3000	0.0	1100	37	26-103
Acenaphthene	2000	0.0	730	37	31-137
4-Nitrophenol	3000	0.0	1300	43	11-114
2,4-Dinitrotoluene	2000	0.0	670	34	28- 89
Pentachlorophenol	3000	0.0	1300	43	17-109
Pyrene	2000	0.0	770	39	35-142

COMPOUND	SPIKE ADDED (ug/Kg)	MSD AMOUNT (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	3000	1200	40	19	35	26- 90
2-Chlorophenol	3000	1100	37	11	50	25-102
N-Nitroso-di-n-prop.(1)	2000	740	37*	11	38	41-126
4-Chloro-3-methylphenol	3000	1200	40	8	33	26-103
Acenaphthene	2000	780	39	5	19	31-137
4-Nitrophenol	3000	1500	50	15	50	11-114
2,4-Dinitrotoluene	2000	740	37	8	47	28- 89
Pentachlorophenol	3000	1400	47	9	47	17-109
Pyrene	2000	860	43	10	36	35-142

(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 9 outside limits
Spike Recovery: 2 out of 18 outside limits

COMMENTS:

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL62MS

Lab Name: ENVIROSYSTEMS, INC. Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Matrix: (soil/water) SOIL Lab Sample ID: 00041171MS

Sample wt/vol: 30.0(g/mL) G Lab File ID: H73GB708

Level: (low/med) LOW Date Received: 04/22/00

% Moisture: 18 Decanted: (Y/N)N Date Extracted: 04/26/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/04/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.0 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1000	U
100-02-7	4-Nitrophenol	1300	
132-64-9	Dibenzofuran	400	U
121-14-2	2,4-Dinitrotoluene	670	
84-66-2	Diethylphthalate	400	U
86-73-7	Fluorene	400	U
7005-72-3	4-Chlorophenyl-phenylether	400	U
100-01-6	4-Nitroaniline	1000	U
534-52-1	4,6-Dinitro-2-methylphenol	1000	U
86-30-6	N-Nitrosodiphenylamine (1)	400	U
101-55-3	4-Bromophenyl-phenylether	400	U
118-74-1	Hexachlorobenzene	400	U
1912-24-9	Atrazine	400	U
87-86-5	Pentachlorophenol	1300	
85-01-8	Phenanthrene	400	U
120-12-7	Anthracene	400	U
86-74-8	Carbazole	400	U
84-74-2	Di-n-butylphthalate	400	U
206-44-0	Fluoranthene	400	U
129-00-0	Pyrene	770	
85-68-7	Butylbenzylphthalate	400	U
91-94-1	3,3'-Dichlorobenzidine	400	U
56-55-3	Benzo(a)anthracene	400	U
218-01-9	Chrysene	400	U
117-81-7	bis(2-Ethylhexyl)phthalate	400	U
117-84-0	Di-n-octylphthalate	400	U
205-99-2	Benzo(b)fluoranthene	400	U
207-08-9	Benzo(k)fluoranthene	400	U
50-32-8	Benzo(a)pyrene	400	U
193-39-5	Indeno(1,2,3-cd)pyrene	400	U
53-70-3	Dibenzo(a,h)anthracene	400	U
191-24-2	Benzo(g,h,i)perylene	400	U

DC11738

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL62MS

Lab Name: ENVIROSYSTEMS, INC. Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Matrix: (soil/water) SOIL Lab Sample ID: 00041171MS

Sample wt/vol: 30.0(g/mL) G Lab File ID: H73GB708

Level: (low/med) LOW Date Received: 04/22/00

% Moisture: 18 Decanted: (Y/N)N Date Extracted: 04/26/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/04/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.0 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	400	U
108-95-2	Phenol	1000	
111-44-4	bis(2-Chloroethyl)Ether	400	U
95-57-8	2-Chlorophenol	1000	
95-48-7	2-Methylphenol	400	U
108-60-1	2,2'-oxybis(1-Chloropropane)	400	U
98-86-2	Acetophenone	400	U
106-44-5	4-Methylphenol	400	U
621-64-7	N-Nitroso-di-n-propylamine	660	
67-72-1	Hexachloroethane	400	U
98-95-3	Nitrobenzene	400	U
78-59-1	Isophorone	400	U
88-75-5	2-Nitrophenol	400	U
105-67-9	2,4-Dimethylphenol	400	U
120-83-2	2,4-Dichlorophenol	400	U
91-20-3	Naphthalene	400	U
106-47-8	4-Chloroaniline	400	U
111-91-1	bis(2-Chloroethoxy)methane	400	U
87-68-3	Hexachlorobutadiene	400	U
105-60-2	Caprolactam	400	U
59-50-7	4-Chloro-3-methylphenol	1100	
91-57-6	2-Methylnaphthalene	400	U
77-47-4	Hexachlorocyclopentadiene	400	U
88-06-2	2,4,6-Trichlorophenol	400	U
95-95-4	2,4,5-Trichlorophenol	1000	U
92-52-4	1,1'-Biphenyl	400	U
91-58-7	2-Chloronaphthalene	400	U
88-74-4	2-Nitroaniline	1000	U
131-11-3	Dimethylphthalate	400	U
606-20-2	2,6-Dinitrotoluene	400	U
208-96-8	Acenaphthylene	400	U
99-09-2	3-Nitroaniline	1000	U
83-32-9	Acenaphthene	730	

061739

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL62MSD

Lab Name: ENVIROSYSTEMS, INC. Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Matrix: (soil/water) SOIL Lab Sample ID: 00041171MSD

Sample wt/vol: 30.0(g/mL) G Lab File ID: H73GB709

Level: (low/med) LOW Date Received: 04/22/00

% Moisture: 18 Decanted: (Y/N)N Date Extracted: 04/26/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/04/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.0 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	400	U
108-95-2	Phenol	1200	
111-44-4	bis(2-Chloroethyl)Ether	400	U
95-57-8	2-Chlorophenol	1100	
95-48-7	2-Methylphenol	400	U
108-60-1	2,2'-oxybis(1-Chloropropane)	400	U
98-86-2	Acetophenone	400	U
106-44-5	4-Methylphenol	400	U
621-64-7	N-Nitroso-di-n-propylamine	740	
67-72-1	Hexachloroethane	400	U
98-95-3	Nitrobenzene	400	U
78-59-1	Isophorone	400	U
88-75-5	2-Nitrophenol	400	U
105-67-9	2,4-Dimethylphenol	400	U
120-83-2	2,4-Dichlorophenol	400	U
91-20-3	Naphthalene	400	U
106-47-8	4-Chloroaniline	400	U
111-91-1	bis(2-Chloroethoxy)methane	400	U
87-68-3	Hexachlorobutadiene	400	U
105-60-2	Caprolactam	400	U
59-50-7	4-Chloro-3-methylphenol	1200	
91-57-6	2-Methylnaphthalene	400	U
77-47-4	Hexachlorocyclopentadiene	400	U
88-06-2	2,4,6-Trichlorophenol	400	U
95-95-4	2,4,5-Trichlorophenol	1000	U
92-52-4	1,1'-Biphenyl	400	U
91-58-7	2-Chloronaphthalene	400	U
88-74-4	2-Nitroaniline	1000	U
131-11-3	Dimethylphthalate	400	U
606-20-2	2,6-Dinitrotoluene	400	U
208-96-8	Acenaphthylene	400	U
99-09-2	3-Nitroaniline	1000	U
83-32-9	Acenaphthene	780	

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL62MSD

Lab Name: ENVIROSYSTEMS, INC. Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Matrix: (soil/water) SOIL Lab Sample ID: 00041171MSD

Sample wt/vol: 30.0(g/mL) G Lab File ID: H73GB709

Level: (low/med) LOW Date Received: 04/22/00

% Moisture: 18 Decanted: (Y/N)N Date Extracted: 04/26/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/04/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.0 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1000	U
100-02-7	4-Nitrophenol	1500	
132-64-9	Dibenzofuran	400	U
121-14-2	2,4-Dinitrotoluene	740	
84-66-2	Diethylphthalate	400	U
86-73-7	Fluorene	400	U
7005-72-3	4-Chlorophenyl-phenylether	400	U
100-01-6	4-Nitroaniline	1000	U
534-52-1	4,6-Dinitro-2-methylphenol	1000	U
86-30-6	N-Nitrosodiphenylamine (1)	400	U
101-55-3	4-Bromophenyl-phenylether	400	U
118-74-1	Hexachlorobenzene	400	U
1912-24-9	Atrazine	400	U
87-86-5	Pentachlorophenol	1400	
85-01-8	Phenanthrene	400	U
120-12-7	Anthracene	400	U
86-74-8	Carbazole	400	U
84-74-2	Di-n-butylphthalate	400	U
206-44-0	Fluoranthene	400	U
129-00-0	Pyrene	860	
85-68-7	Butylbenzylphthalate	400	U
91-94-1	3,3'-Dichlorobenzidine	400	U
56-55-3	Benzo(a)anthracene	400	U
218-01-9	Chrysene	400	U
117-81-7	bis(2-Ethylhexyl)phthalate	400	U
117-84-0	Di-n-octylphthalate	400	U
205-99-2	Benzo(b)fluoranthene	400	U
207-08-9	Benzo(k)fluoranthene	400	U
50-32-8	Benzo(a)pyrene	400	U
193-39-5	Indeno(1,2,3-cd)pyrene	400	U
53-70-3	Dibenzo(a,h)anthracene	400	U
191-24-2	Benzo(g,h,i)perylene	400	U

041748

WATER PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ENVIROSYSTEMS Contract: 68W99023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL45

Matrix Spike - EPA Sample No.: CSL45

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC.
gamma-BHC (Lindane)	0.500	0	0.529	106	56-123
Heptachlor	0.500	0	0.569	114	40-131
Aldrin	0.500	0	0.521	104	40-120
Dieldrin	1.000	0	1.16	116	52-126
Endrin	1.000	0	1.32	132 *	56-121
4,4'-DDT	1.000	0	0.877	88	38-127

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
gamma-BHC (Lindane)	0.500	0.542	108	2	15	56-123
Heptachlor	0.500	0.583	117	3	20	40-131
Aldrin	0.500	0.544	109	5	22	40-120
Dieldrin	1.000	1.19	119	3	18	52-126
Endrin	1.000	1.32	132 *	0	21	56-121
4,4'-DDT	1.000	0.836	84	5	27	38-127

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: 2 out of 12 outside limits

COMMENTS:

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL45MS

Lab Name: ENVIROSYSTEMS Contract: 68W99023

Lab Code: ENVSYS - Case No.: 27981 SAS No.: SDG No.: CSL45

Matrix: (soil/water) WATER Lab Sample ID: 00041153MS

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

% Moisture: decanted: (Y/N) Date Received: 04/22/00

Extraction: (SepF/Cont/Sonc) CONT Date Extracted: 04/24/00

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 05/09/00

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

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

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)	0.53	
76-44-8	Heptachlor	0.57	
309-00-2	Aldrin	0.52	
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	1.2	
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	1.3	
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	0.88	
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11100-14-4	Aroclor-1268	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL45MSD

Lab Name: ENVIROSYSTEMS Contract: 68W99023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL45

Matrix: (soil/water) WATER Lab Sample ID: 00041153MSD

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

% Moisture: decanted: (Y/N) Date Received: 04/22/00

Extraction: (SepF/Cont/Sonc) CONT Date Extracted: 04/24/00

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 05/09/00

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

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

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)	0.54	
76-44-8	Heptachlor	0.58	
309-00-2	Aldrin	0.54	
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	1.2	
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	1.3	
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	0.84	
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11100-14-4	Aroclor-1268	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

SOIL PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ENVIROSYSTEMS Contract: 68W99023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Matrix Spike - EPA Sample No.: CSL62

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC.
gamma-BHC (Lindane)	20.3	0	10.7	53	46-127
Heptachlor	20.3	0	11.4	56	35-130
Aldrin	20.3	0	10.7	53	34-132
Dieldrin	40.6	0	24.0	59	31-134
Endrin	40.6	0	32.2	79	42-139
4,4'-DDT	40.6	0	27.5	68	23-134

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
gamma-BHC (Lindane)	20.3	11.1	55	3.7	50	46-127
Heptachlor	20.3	12.5	62	9.2	31	35-130
Aldrin	20.3	11.5	57	7.2	43	34-132
Dieldrin	40.6	24.2	60	0.83	38	31-134
Endrin	40.6	28.2	69	13	45	42-139
4,4'-DDT	40.6	23.8	59	14	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: 0 out of 12 outside limits

COMMENTS:

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL62MS

Lab Name: ENVIROSYSTEMS Contract: 68W99023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Matrix: (soil/water) SOIL Lab Sample ID: 00041171MS

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

% Moisture: 18 decanted: (Y/N) N Date Received: 04/22/00

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/26/00

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 05/04/00

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 6.9 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.1	U
319-85-7	beta-BHC	2.1	U
319-86-8	delta-BHC	2.1	U
58-89-9	gamma-BHC (Lindane)	11	
76-44-8	Heptachlor	11	
309-00-2	Aldrin	11	
1024-57-3	Heptachlor epoxide	2.1	U
959-98-8	Endosulfan I	2.1	U
60-57-1	Dieldrin	24	
72-55-9	4,4'-DDE	4.0	U
72-20-8	Endrin	32	P
33213-65-9	Endosulfan II	4.0	U
72-54-8	4,4'-DDD	4.0	U
1031-07-8	Endosulfan sulfate	4.0	U
50-29-3	4,4'-DDT	28	P
72-43-5	Methoxychlor	21	U
53494-70-5	Endrin ketone	4.0	U
7421-93-4	Endrin aldehyde	4.0	U
5103-71-9	alpha-Chlordane	2.1	U
5103-74-2	gamma-Chlordane	2.1	U
8001-35-2	Toxaphene	210	U
12674-11-2	Aroclor-1016	40	U
11100-14-4	Aroclor-1268	40	U
11141-16-5	Aroclor-1232	40	U
53469-21-9	Aroclor-1242	40	U
12672-29-6	Aroclor-1248	40	U
11097-69-1	Aroclor-1254	40	U
11096-82-5	Aroclor-1260	40	U

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSL62MSD

Lab Name: ENVIROSYSTEMS Contract: 68W99023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Matrix: (soil/water) SOIL Lab Sample ID: 00041171MSD

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

% Moisture: 18 decanted: (Y/N) N Date Received: 04/22/00

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/26/00

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 05/04/00

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 6.9 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.1	U
319-85-7	beta-BHC	2.1	U
319-86-8	delta-BHC	2.1	U
58-89-9	gamma-BHC (Lindane)	11	
76-44-8	Heptachlor	13	
309-00-2	Aldrin	12	
1024-57-3	Heptachlor epoxide	2.1	U
959-98-8	Endosulfan I	2.1	U
60-57-1	Dieldrin	24	
72-55-9	4,4'-DDE	4.0	U
72-20-8	Endrin	28	
33213-65-9	Endosulfan II	4.0	U
72-54-8	4,4'-DDD	4.0	U
1031-07-8	Endosulfan sulfate	4.0	U
50-29-3	4,4'-DDT	24	
72-43-5	Methoxychlor	21	U
53494-70-5	Endrin ketone	4.0	U
7421-93-4	Endrin aldehyde	4.0	U
5103-71-9	alpha-Chlordane	2.1	U
5103-74-2	gamma-Chlordane	2.1	U
8001-35-2	Toxaphene	210	U
12674-11-2	Aroclor-1016	40	U
11100-14-4	Aroclor-1268	40	U
11141-16-5	Aroclor-1232	40	U
53469-21-9	Aroclor-1242	40	U
12672-29-6	Aroclor-1248	40	U
11097-69-1	Aroclor-1254	40	U
11096-82-5	Aroclor-1260	40	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VHBLKBP

Lab Name: ENVIROSYSTEMS Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL45

Matrix: (soil/water) WATER Lab Sample ID: 0426VHBLKB1

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 0426VHBLKB1

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 04/26/00

GC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluo	10	U
	1,2,2-trifluoroethane	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
79-20-9	Methyl Acetate	10	U
75-09-2	Methylene Chloride	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	tert-Butyl Methyl Ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	10	U
56-23-5	Carbon Tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U

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1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VHBLKBP

Lab Name: ENVIROSYSTEMS Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL45

Matrix: (soil/water) WATER Lab Sample ID: 0426VHBLKB1

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 0426VHBLKB1

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 04/26/00

GC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-01-6	Trichloroethene	10	U
108-87-2	Methylcyclohexane	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3 Dichlorobenzene	10	U
106-46-7	1,4 Dichlorobenzene	10	U
95-50-1	1,2 Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VHBLKBP

Lab Name: ENVIROSYSTEMS Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL45

Matrix: (soil/water) WATER Lab Sample ID: 0426VHBLKB1

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 0426VHBLKB1

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 04/26/00

GC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

0041181

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKBO

Lab Name: ENVIROSYSTEMS Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL45

Matrix: (soil/water) WATER Lab Sample ID: 0425VWBB1

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 0425VWBB1

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 04/25/00

GC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluo	10	U
	1,2,2-trifluoroethane	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
79-20-9	Methyl Acetate	10	U
75-09-2	Methylene Chloride	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	tert-Butyl Methyl Ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	10	U
56-23-5	Carbon Tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKBO

Lab Name: ENVIROSYSTEMS Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL45

Matrix: (soil/water) WATER Lab Sample ID: 0425VWBB1

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 0425VWBB1

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 04/25/00

GC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-01-6	Trichloroethene	10	U
108-87-2	Methylcyclohexane	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3 Dichlorobenzene	10	U
106-46-7	1,4 Dichlorobenzene	10	U
95-50-1	1,2 Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKBO

Lab Name: ENVIROSYSTEMS Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL45

Matrix: (soil/water) WATER Lab Sample ID: 0425VWBB1

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 0425VWBB1

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 04/25/00

GC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

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

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

0[illegible]190

FORM I VOA-TIC OLM04.2

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKBP

Lab Name: ENVIROSYSTEMS Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL45

Matrix: (soil/water) WATER Lab Sample ID: 0426VWBB1

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 0426VWBB1

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 04/26/00

GC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluo	10	U
	1,2,2-trifluoroethane	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
79-20-9	Methyl Acetate	10	U
75-09-2	Methylene Chloride	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	tert-Butyl Methyl Ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	10	U
56-23-5	Carbon Tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKBP

Lab Name: ENVIROSYSTEMS Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL45

Matrix: (soil/water) WATER Lab Sample ID: 0426VWBB1

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 0426VWBB1

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 04/26/00

QC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-01-6	Trichloroethene	10	U
108-87-2	Methylcyclohexane	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3 Dichlorobenzene	10	U
106-46-7	1,4 Dichlorobenzene	10	U
95-50-1	1,2 Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U

0011198

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKBP

Lab Name: ENVIROSYSTEMS Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL45

Matrix: (soil/water) WATER Lab Sample ID: 0426VWBB1

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 0426VWBB1

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 04/26/00

GC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

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.

VHBLKCP

Lab Name: ENVIROSYSTEMS Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Matrix: (soil/water) SOIL Lab Sample ID: 0426VHBLKC1

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 0426VHBLKC1

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 04/26/00

GC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluo	10	U
	1,2,2-trifluoroethane	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
79-20-9	Methyl Acetate	10	U
75-09-2	Methylene Chloride	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	tert-Butyl Methyl Ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	10	U
56-23-5	Carbon Tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U

040250

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VHBLKCP

Lab Name: ENVIROSYSTEMS Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Matrix: (soil/water) SOIL Lab Sample ID: 0426VHBLKC1

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 0426VHBLKC1

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 04/26/00

GC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	10	U
108-87-2	Methylcyclohexane	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3 Dichlorobenzene	10	U
106-46-7	1,4 Dichlorobenzene	10	U
95-50-1	1,2 Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U

04 11251

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VHBLKCP

Lab Name: ENVIROSYSTEMS Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Matrix: (soil/water) SOIL Lab Sample ID: 0426VHBLKC1

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 0426VHBLKC1

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 04/26/00

GC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

0011252

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKCO

Lab Name: ENVIROSYSTEMS Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Matrix: (soil/water) SOIL Lab Sample ID: 0425VSBC1

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 0425VSBC1

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 04/25/00

GC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluo	10	U
	1,2,2-trifluoroethane	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
79-20-9	Methyl Acetate	10	U
75-09-2	Methylene Chloride	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	tert-Butyl Methyl Ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	10	U
56-23-5	Carbon Tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U

001259

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKCO

Lab Name: ENVIROSYSTEMS Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Matrix: (soil/water) SOIL Lab Sample ID: 0425VSBC1

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 0425VSBC1

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 04/25/00

GC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	10	U
108-87-2	Methylcyclohexane	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3 Dichlorobenzene	10	U
106-46-7	1,4 Dichlorobenzene	10	U
95-50-1	1,2 Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U

000260

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKCO

Lab Name: ENVIROSYSTEMS Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Matrix: (soil/water) SOIL Lab Sample ID: 0425VSBC1

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 0425VSBC1

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 04/25/00

GC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

021261

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKCP

Lab Name: ENVIROSYSTEMS Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Matrix: (soil/water) SOIL Lab Sample ID: 0426VSBC1

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 0426VSBC1

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 04/26/00

GC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluo	10	U
	1,2,2-trifluoroethane	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
79-20-9	Methyl Acetate	10	U
75-09-2	Methylene Chloride	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	tert-Butyl Methyl Ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	10	U
56-23-5	Carbon Tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U

0611268

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKCP

Lab Name: ENVIROSYSTEMS Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Matrix: (soil/water) SOIL Lab Sample ID: 0426VSBC1

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 0426VSBC1

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 04/26/00

GC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	10	U
108-87-2	Methylcyclohexane	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3 Dichlorobenzene	10	U
106-46-7	1,4 Dichlorobenzene	10	U
95-50-1	1,2 Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U

0a0269

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKCP

Lab Name: ENVIROSYSTEMS Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Matrix: (soil/water) SOIL Lab Sample ID: 0426VSBC1

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 0426VSBC1

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 04/26/00

GC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

021270

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK92

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL45

Matrix: (soil/water) WATER Lab Sample ID: 0425SWB1

Sample wt/vol: 1000 (g/mL) ML Lab File ID: H73GB682

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

% Moisture: _____ Decanted: (Y/N)___ Date Extracted: 04/25/00

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/02/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-52-7	Benzaldehyde	10	U
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
98-86-2	Acetophenone	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
120-83-2	2,4-Dichlorophenol	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
87-68-3	Hexachlorobutadiene	10	U
105-60-2	Caprolactam	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	25	U
92-52-4	1,1'-Biphenyl	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
208-96-8	Acenaphthylene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK92

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL45

Matrix: (soil/water) WATER Lab Sample ID: 0425SWB1

Sample wt/vol: 1000 (g/mL) ML Lab File ID: H73GB682

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

% Moisture: _____ Decanted: (Y/N)___ Date Extracted: 04/25/00

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/02/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
1912-24-9	Atrazine	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	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	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SBLK92

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL45

Matrix: (soil/water) WATER Lab Sample ID: 0425SWB1

Sample wt/vol: 1000 (g/mL) ML Lab File ID: H73GB682

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

% Moisture: _____ Decanted: (Y/N)___ Date Extracted:04/25/00

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/02/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Extraction: (Type) CONT

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
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26.				
27.				
28.				
29.				
30.				

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK95

Lab Name: ENVIROSYSTEMS, INC. Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Matrix: (soil/water) SOIL Lab Sample ID: 0426SSB2

Sample wt/vol: 30.0(g/mL) G Lab File ID: H73GB722

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

% Moisture: 0 Decanted: (Y/N)N Date Extracted: 04/26/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/05/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	330	U
108-95-2	Phenol	330	U
111-44-4	bis(2-Chloroethyl)Ether	330	U
95-57-8	2-Chlorophenol	330	U
95-48-7	2-Methylphenol	330	U
108-60-1	2,2'-oxybis(1-Chloropropane)	330	U
98-86-2	Acetophenone	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
120-83-2	2,4-Dichlorophenol	330	U
91-20-3	Naphthalene	330	U
106-47-8	4-Chloroaniline	330	U
111-91-1	bis(2-Chloroethoxy)methane	330	U
87-68-3	Hexachlorobutadiene	330	U
105-60-2	Caprolactam	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	830	U
92-52-4	1,1'-Biphenyl	330	U
91-58-7	2-Chloronaphthalene	330	U
88-74-4	2-Nitroaniline	830	U
131-11-3	Dimethylphthalate	330	U
606-20-2	2,6-Dinitrotoluene	330	U
208-96-8	Acenaphthylene	330	U
99-09-2	3-Nitroaniline	830	U
83-32-9	Acenaphthene	330	U

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK95

Lab Name: ENVIROSYSTEMS, INC. Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Matrix: (soil/water) SOIL Lab Sample ID: 0426SSB2

Sample wt/vol: 30.0(g/mL) G Lab File ID: H73GB722

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

% Moisture: 0 Decanted: (Y/N)N Date Extracted: 04/26/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/05/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	830	U
100-02-7	4-Nitrophenol	830	U
132-64-9	Dibenzofuran	330	U
121-14-2	2,4-Dinitrotoluene	330	U
84-66-2	Diethylphthalate	330	U
86-73-7	Fluorene	330	U
7005-72-3	4-Chlorophenyl-phenylether	330	U
100-01-6	4-Nitroaniline	830	U
534-52-1	4,6-Dinitro-2-methylphenol	830	U
86-30-6	N-Nitrosodiphenylamine (1)	330	U
101-55-3	4-Bromophenyl-phenylether	330	U
118-74-1	Hexachlorobenzene	330	U
1912-24-9	Atrazine	330	U
87-86-5	Pentachlorophenol	830	U
85-01-8	Phenanthrene	330	U
120-12-7	Anthracene	330	U
86-74-8	Carbazole	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	330	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-octylphthalate	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	Dibenzo(a,h)anthracene	330	U
191-24-2	Benzo(g,h,i)perylene	330	U

000713

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SBLK95

Lab Name: ENVIROSYSTEMS, INC. Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Matrix: (soil/water) SOIL Lab Sample ID: 0426SSB2

Sample wt/vol: 30.0 (g/mL) G Lab File ID: H73GB722

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

% Moisture: _____ Decanted: (Y/N)___ Date Extracted:04/26/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/05/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) SONC

Number TICs found: 1

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	4.18	1100	J
2.					
3.					
4.					
5.					
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25.					
26.					
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29.					
30.					

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK07

Lab Name: ENVIROSYSTEMS, INC. Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Matrix: (soil/water) SOIL Lab Sample ID: 0505SSB3

Sample wt/vol: 30.0(g/mL) G Lab File ID: H73GB744

Level: (low/med) LOW Date Received: 04/22/00

% Moisture: 0 Decanted: (Y/N)N Date Extracted: 05/05/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/10/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	330	U
108-95-2	Phenol	330	U
111-44-4	bis(2-Chloroethyl)Ether	330	U
95-57-8	2-Chlorophenol	330	U
95-48-7	2-Methylphenol	330	U
108-60-1	2,2'-oxybis(1-Chloropropane)	330	U
98-86-2	Acetophenone	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
120-83-2	2,4-Dichlorophenol	330	U
91-20-3	Naphthalene	330	U
106-47-8	4-Chloroaniline	330	U
111-91-1	bis(2-Chloroethoxy)methane	330	U
87-68-3	Hexachlorobutadiene	330	U
105-60-2	Caprolactam	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	830	U
92-52-4	1,1'-Biphenyl	330	U
91-58-7	2-Chloronaphthalene	330	U
88-74-4	2-Nitroaniline	830	U
131-11-3	Dimethylphthalate	330	U
606-20-2	2,6-Dinitrotoluene	330	U
208-96-8	Acenaphthylene	330	U
99-09-2	3-Nitroaniline	830	U
83-32-9	Acenaphthene	330	U

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK07

Lab Name: ENVIROSYSTEMS, INC. Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Matrix: (soil/water) SOIL Lab Sample ID: 0505SSB3

Sample wt/vol: 30.0(g/mL) G Lab File ID: H73GB744

Level: (low/med) LOW Date Received: 04/22/00

% Moisture: 0 Decanted: (Y/N)N Date Extracted: 05/05/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/10/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	830	U
100-02-7	4-Nitrophenol	830	U
132-64-9	Dibenzofuran	330	U
121-14-2	2,4-Dinitrotoluene	330	U
84-66-2	Diethylphthalate	330	U
86-73-7	Fluorene	330	U
7005-72-3	4-Chlorophenyl-phenylether	330	U
100-01-6	4-Nitroaniline	830	U
534-52-1	4,6-Dinitro-2-methylphenol	830	U
86-30-6	N-Nitrosodiphenylamine (1)	330	U
101-55-3	4-Bromophenyl-phenylether	330	U
118-74-1	Hexachlorobenzene	330	U
1912-24-9	Atrazine	330	U
87-86-5	Pentachlorophenol	830	U
85-01-8	Phenanthrene	330	U
120-12-7	Anthracene	330	U
86-74-8	Carbazole	330	U
84-74-2	Di-n-butylphthalate	85	J
206-44-0	Fluoranthene	330	U
129-00-0	Pyrene	330	U
85-68-7	Butylbenzylphthalate	330	U
91-94-1	3,3'-Dichlorobenzidine	330	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-octylphthalate	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	Dibenzo(a,h)anthracene	330	U
191-24-2	Benzo(g,h,i)perylene	330	U

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SBLK07

Lab Name: ENVIROSYSTEMS, INC. Contract: 68-W9-9023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Matrix: (soil/water) SOIL Lab Sample ID: 0505SSB3

Sample wt/vol: 30.0 (g/mL) G Lab File ID: H73GB744

Level: (low/med) LOW Date Received: 04/22/00

% Moisture: _____ Decanted: (Y/N)___ Date Extracted:05/05/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/10/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) SONC

Number TICs found: 5

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	4.03	730	J
2.	UNKNOWN	4.23	1700	J
3. 111-76-2	ETHANOL, 2-BUTOXY-	5.18	100	NJ
4. 111-77-3	ETHANOL, 2-(2-METHOXYETHOXY)	5.71	200	NJ
5. 57-10-3	N-HEXADECANOIC ACID	18.88	120	NJ
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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLK21

Lab Name: ENVIROSYSTEMS Contract: 68W99023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL45

Matrix: (soil/water) WATER Lab Sample ID: 0424PWB2

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

% Moisture: decanted: (Y/N) Date Received:

Extraction: (SepF/Cont/Sonc) CONT Date Extracted: 04/24/00

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 05/09/00

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 5.0 Sulfur Cleanup: (Y/N) N

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
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11100-14-4	Aroclor-1268	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLK23

Lab Name: ENVIROSYSTEMS Contract: 68W99023

Lab Code: ENVSYS Case No.: 27981 SAS No.: SDG No.: CSL55

Matrix: (soil/water) SOIL Lab Sample ID: 0426PSB2

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

% Moisture: decanted: (Y/N) Date Received:

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/26/00

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 05/05/00

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 5.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.7	U
319-85-7	beta-BHC	1.7	U
319-86-8	delta-BHC	1.7	U
58-89-9	gamma-BHC (Lindane)	1.7	U
76-44-8	Heptachlor	1.7	U
309-00-2	Aldrin	1.7	U
1024-57-3	Heptachlor epoxide	1.7	U
959-98-8	Endosulfan I	1.7	U
60-57-1	Dieldrin	3.3	U
72-55-9	4,4'-DDE	3.3	U
72-20-8	Endrin	3.3	U
33213-65-9	Endosulfan II	3.3	U
72-54-8	4,4'-DDD	3.3	U
1031-07-8	Endosulfan sulfate	3.3	U
50-29-3	4,4'-DDT	3.3	U
72-43-5	Methoxychlor	17	U
53494-70-5	Endrin ketone	3.3	U
7421-93-4	Endrin aldehyde	3.3	U
5103-71-9	alpha-Chlordane	1.7	U
5103-74-2	gamma-Chlordane	1.7	U
8001-35-2	Toxaphene	170	U
12674-11-2	Aroclor-1016	33	U
11100-14-4	Aroclor-1268	33	U
11141-16-5	Aroclor-1232	33	U
53469-21-9	Aroclor-1242	33	U
12672-29-6	Aroclor-1248	33	U
11097-69-1	Aroclor-1254	33	U
11096-82-5	Aroclor-1260	33	U

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
ENVIRONMENTAL SCIENCE CENTER
701 MAPES ROAD
FORT MEADE, MD 20755-5350

DATE : July 20, 2000

SUBJECT: Region III Data QA Review

FROM : [redacted]
Region III ESAT RPO (3ES20)

TO : William Wentworth
Regional Program Manager (3HS34)

Attached is the inorganic data validation report for the New Jersey Fireworks site (Case#: R3795) 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 at
(410) 305-2629.

Attachment

cc: Alan Fong (MDE)

WA File: 0300402 TDF# 0639

OFFICE OF ANAYTICAL SERVICES AND QUALITY ASSURANCE

RECEIVED
JUL 24 2000
ERRP

Lockheed Martin Environmental Services
US EPA Environmental Science Center
701 Mapes Road Ft. Meade, MD 20755-5350
Telephone 410-305-3037 Facsimile 410-305-3597

LOCKHEED MARTIN

DATE: July 13, 2000

SUBJECT: Level IM2 Inorganic Data Validation for DAS R3795
Site: New Jersey Fireworks

FROM: [redacted] Senior Data Reviewer [redacted] Senior Oversight Chemist

TO: [redacted] ESAT Regional Project Officer

OVERVIEW

DAS R3795 from the New Jersey Fireworks site consisted of four (4) aqueous and five (5) soil samples submitted to PDP Analytical Services (PDP) for perchlorate analyses. The sample set included one (1) aqueous field duplicate pair and one (1) soil field duplicate pair. Samples were analyzed according to EPA Method 300.0 through the Delivery of Analytical Services (DAS) program.

SUMMARY

Data were validated according to Region III Modifications to the National Functional Guidelines for Inorganic Data Review, Level IM2. All samples were successfully analyzed for perchlorate. Laboratory reported results are presented on a Data Summary Forms (DSF) in Appendix B.

MINOR PROBLEM

- The samples, collected 4/20/00 and 4/21/00, were analyzed 5/24/00. The technical holding time of twenty-eight (28) days has been exceeded for all samples by five (5) and six (6) days. Quantitation limits for this analyte may be biased low and have been qualified "UL" on the DSF.

NOTES

- The DAS request specified EPA Method 314 was to be utilized in analysis of this sample set. This method is specific for perchlorate in drinking water samples. The laboratory substituted EPA Method 300 for these analyses. Both methods utilize similar reagents and equipments.

- No positive results above the reporting limit were reported in any field sample.

- Laboratory Control Samples (LCSs) recoveries were 109% and 85%, respectively, for the aqueous and soil matracies.

- Matrix Spike/Matrix Spike Duplicate (MS/MSD) recoveries in the aqueous matrix were outside the upper control limits. No positive results were reported for these samples. No data were qualified based on these outliers.

- Method 300 prescribes extraction of dry soil samples. Quantitation limits were reported by the laboratory to account for sample percent solids. Based on reported quantitation limits, the percent solids were calculated and reported on the DSF by the reviewer.

All data for DAS R3795 were reviewed in accordance with Region III Modifications to the National Functional Guidelines for Inorganic Data Review, April 1993.

ATTACHMENTS

Appendix A Glossary of Data Qualifier Codes
Appendix B Data Summary Form
Appendix C Results Reported on Laboratory Form Is
Appendix D Supporting Documentation

DCN:R3795.IM2

APPENDIX A

Glossary of Qualifier Codes

GLOSSARY OF DATA QUALIFIER CODES (INORGANIC)

CODES RELATED TO IDENTIFICATION
(confidence concerning presence or absence of analytes):

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

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.

[ ] = Analyte present. As values approach the IDL the quantitation may not be accurate.

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

UL = Not detected, quantitation limit is probably higher.

OTHER CODES

Q = No analytical result.

APPENDIX B

Data Summary Forms

DATA SUMMARY FORM: INORGANIC

Case #: R3795 SDG : NONE Number of Soil Samples : 5
Site : New Jersey Fireworks Number of Water Samples : 4
Lab. : PDP

Sample Number :		R379500		R379501		R379502		R379508			
Sampling Location :		GW-4		GW-5		SW-3		SW-3D			
Field QC						Field Dup. of R379508		Field Dup. of R379502			
Matrix :		Water		Water		Water		Water			
Units :		ug/L		ug/L		ug/L		ug/L			
Date Sampled :		4/20/2000		04/21/2000		4/20/2000		04/20/2000			
Time Sampled :		10:45		10:15		09:45		09:45			
Dilution Factor :		1.0		1.0		1.0		1.0			
ANALYTE	RL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Perchlorate	1.0		UL		UL		UL		UL		

RL = Reporting Limit SEE NARRATIVE FOR CODE DEFINITIONS

Sample Number :		R379503		R379504		R379505		R379506		R379507	
Sampling Location :		SED-3		S-4		S-6		S-8		S-10	
Field QC				Field Dup. of R379507						Field Dup. of R379504	
Matrix :		Soil		Soil		Soil		Soil		Soil	
Units :		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :		4/20/2000		04/21/2000		04/21/2000		04/21/2000		04/21/2000	
Time Sampled :		09:45		09:00		09:25		09:40		09:00	
Percent Solids:		68.0		88.0		79.0		74.0		91.0	
Dilution Factor :		1.0		1.0		1.0		1.0		1.0	
ANALYTE	RL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Perchlorate	10.0		UL		UL		UL		UL		UL

RL = Reporting Limit SEE NARRATIVE FOR CODE DEFINITIONS

APPENDIX C

Form Is

PDP Analytical Services
1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

LABORATORY REPORT

PERCHLORATE BY ION CHROMATOGRAPHY

CLIENT NAME : USEPA, REGION III
PROJECT NAME : SUPERFUND
PROJECT NUMBER : R3795
PRINTED ON : 6/2/2000 9:27

PARAMETER: Perchlorate

CLIENT SAMPLE ID	R379500	R379501	R379502	R379508
SAMPLE ID	6020.001	6020.002	6020.003	6020.009
SAMPLE MATRIX	WATER	WATER	WATER	WATER
DATE SAMPLED	4/20/00	4/21/00	4/20/00	4/20/00
DATE RECEIVED	4/25/00	4/25/00	4/25/00	4/25/00
METHOD REFERENCE	EPA-300(MOD)	EPA-300(MOD)	EPA-300(MOD)	EPA-300(MOD)
QUANTITATION LIMIT	1	1	1	1
RESULTS	ND	ND	ND	ND
UNITS	UG/L	UG/L	UG/L	UG/L
QUALIFIER				
ANALYST	PRN	PRN	PRN	PRN
DATE ANALYZED	05/24/00	05/24/00	05/24/00	05/24/00
DILUTION	1	1	1	1
INSTRUMENT FILE	0524A161.D11	0524A161.D13	0524A161.D12	0524A161.D14
INSTRUMENT ID	A-DIONEX300	A-DIONEX300	A-DIONEX300	A-DIONEX300
QC BATCH ID	PC04	PC04	PC04	PC04
PRE-PREP BLANK ID				
PREP BLANK ID	PCBLK04	PCBLK04	PCBLK04	PCBLK04
LCS ID	PCLCS04	PCLCS04	PCLCS04	PCLCS04
LCSD ID				
MS ID	6020.001MS	6020.001MS	6020.001MS	6020.001MS
MSD ID	6020.001MSD	6020.001MSD	6020.001MSD	6020.001MSD
DUP ID				

PDP Analytical Services

1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

LABORATORY REPORT

PERCHLORATE BY ION CHROMATOGRAPHY

CLIENT NAME	: USEPA, REGION III		PROJECT NUMBER	:	R3795
PROJECT NAME	: SUPERFUND		PRINTED ON	:	6/2/2000 9:27

PARAMETER: Perchlorate

CLIENT SAMPLE ID	R379500MS	R379500MSD	PREP BLANK	LAB CONTROL SAMP
SAMPLE ID	6020.001MS	6020.001MSD	PCBLK04	PCLCS04
SAMPLE MATRIX	WATER	WATER		
DATE SAMPLED	4/20/00	4/20/00		
DATE RECEIVED	4/25/00	4/25/00		
METHOD REFERENCE	EPA-300(MOD)	EPA-300(MOD)	EPA-300(MOD)	EPA-300(MOD)
QUANTITATION LIMIT	1	1	1	1
RESULTS	41	41	ND	34.8
UNITS	UG/L	UG/L	UG/L	UG/L
QUALIFIER				
ANALYST	PRN	PRN	PRN	PRN
DATE ANALYZED	05/24/00	05/24/00	05/24/00	05/24/00
DILUTION	1	1	1	1
INSTRUMENT FILE	0524A161.D15	0524A161.D16	0524A161.D09	0524A161.D10
INSTRUMENT ID	A-DIONEX300	A-DIONEX300	A-DIONEX300	A-DIONEX300
QC BATCH ID	PC04	PC04	PC04	PC04
PRE-PREP BLANK ID				
PREP BLANK ID	PCBLK04	PCBLK04	PCBLK04	PCBLK04
LCS ID	PCLCS04	PCLCS04		
LCSD ID				
MS ID		6020.001MS		
MSD ID				
DUP ID				

PDP Analytical Services

1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

LABORATORY REPORT

PERCHLORATE BY ION CHROMATOGRAPHY

CLIENT NAME : USEPA, REGION III
PROJECT NAME : SUPERFUND

PROJECT NUMBER : R3795
PRINTED ON : 6/2/2000 9:27

PARAMETER: Perchlorate

CLIENT SAMPLE ID	R379503	R379504	R379505	R379506
SAMPLE ID	6020.004	6020.005	6020.006	6020.007
SAMPLE MATRIX	SOIL	SOIL	SOIL	SOIL
DATE SAMPLED	4/20/00	4/21/00	4/21/00	4/[illegible]/00
DATE RECEIVED	4/25/00	4/25/00	4/25/00	4/[illegible]/00
METHOD REFERENCE	EPA-300	EPA-300	EPA-300	EPA-300
QUANTITATION LIMIT	14.6	11.4	12.6	13.5
RESULTS	ND	ND	ND	ND
UNITS	UG/KG	UG/KG	UG/KG	UG/KG
QUALIFIER				
ANALYST	PRN	PRN	PRN	PRN
DATE ANALYZED	05/24/00	05/24/00	05/24/00	05/24/00
DATE PREPPED	05/24/00	05/24/00	05/24/00	05/24/00
DILUTION	1	1	1	1
EXTRACT VOLUME	10 ML	10 ML	10 ML	10 ML
INSTRUMENT FILE	0524A161.D20	0524A161.D23	0524A161.D24	0524A161.D25
INSTRUMENT ID	A-DIONEX300	A-DIONEX300	A-DIONEX300	A-DIONEX300
PREP ANALYST	PRN	PRN	PRN	PRN
SAMPLE AMOUNT	10 G	10 G	10 G	10 G
QC BATCH ID	PC05	PC05	PC05	PC05
PRE-PREP BLANK ID				
PREP BLANK ID	PCBLK05	PCBLK05	PCBLK05	PCBLK05
LCS ID	PCLCS05	PCLCS05	PCLCS05	PCLCS05
LCSD ID				
MS ID	6020.004MS	6020.004MS	6020.004MS	6020.004MS
MSD ID	6020.004MSD	6020.004MSD	6020.004MSD	6020.004MSD
DUP ID				

PDP Analytical Services
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LABORATORY REPORT

PERCHLORATE BY ION CHROMATOGRAPHY

CLIENT NAME	: USEPA, REGION III		PROJECT NUMBER	: R3795	
PROJECT NAME	: SUPERFUND		PRINTED ON	: 6/2/2000	9:27

PARAMETER: Perchlorate

CLIENT SAMPLE ID	R379507	R379503MS1	R379503MSD1	PREP BLANK
SAMPLE ID	6020.008	6020.004MS	6020.004MSD	PCBLK05
SAMPLE MATRIX	SOIL	SOIL	SOIL	
DATE SAMPLED	4/21/00	4/20/00	4/20/00	
DATE RECEIVED	4/25/00	4/25/00	4/25/00	
METHOD REFERENCE	EPA-300	EPA-300	EPA-300	EPA-300
QUANTITATION LIMIT	10.9	14.6	14.6	10
RESULTS	ND	56.6	63.8	ND
UNITS	UG/KG	UG/KG	UG/KG	UG/KG
QUALIFIER				
ANALYST	PRN	PRN	PRN	PRN
DATE ANALYZED	05/24/00	05/24/00	05/24/00	05/24/00
DATE PREPPED	05/24/00	05/24/00	05/24/00	05/24/00
DILUTION	1	1	1	1
EXTRACT VOLUME	10 ML	10 ML	10 ML	10 ML
INSTRUMENT FILE	0524A161.D26	0524A161.D21	0524A161.D22	0524A161.D18
INSTRUMENT ID	A-DIONEX300	A-DIONEX300	A-DIONEX300	A-DIONEX300
PREP ANALYST	PRN	PRN	PRN	PRN
SAMPLE AMOUNT	10 G	10 G	10 G	10 G
QC BATCH ID	PC05	PC05	PC05	PC05
PRE-PREP BLANK ID				
PREP BLANK ID	PCBLK05	PCBLK05	PCBLK05	PCBLK05
LCS ID	PCLCS05	PCLCS05	PCLCS05	
LCSD ID				
MS ID	6020.004MS		6020.004MS	
MSD ID	6020.004MSD			
DUP ID				

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LABORATORY REPORT

PERCHLORATE BY ION CHROMATOGRAPHY

CLIENT NAME	: USEPA, REGION III		PROJECT NUMBER	:	R3795
PROJECT NAME	: SUPERFUND		PRINTED ON	:	6/2/2000 9:27

PARAMETER: Perchlorate

CLIENT SAMPLE ID	**LAB CONTROL SAMP**
SAMPLE ID	**PCLCS05**
SAMPLE MATRIX	
DATE SAMPLED	
DATE RECEIVED	
METHOD REFERENCE	EPA-300
QUANTITATION LIMIT	10
RESULTS	42.4
UNITS	UG/KG
QUALIFIER	
ANALYST	PRN
DATE ANALYZED	05/24/00
DATE PREPPED	05/24/00
DILUTION	1
EXTRACT VOLUME	10 ML
INSTRUMENT FILE	0524A161.D19
INSTRUMENT ID	A-DIONEX300
PREP ANALYST	PRN
SAMPLE AMOUNT	10 G
QC BATCH ID	PC05
PRE-PREP BLANK ID	
PREP BLANK ID	PCBLK05
LCS ID	
LCSD ID	
MS ID	
MSD ID	
DUP ID	

APPENDIX D

Support Documentation

U.S. EPA REGION 3 CHAIN OF CUSTODY RECORD

RECORD No.: R3795 | PAGE: 1 OF 1

ROGRAM: Superfund	SAMPLER: [redacted]	COLUMN A MATRIX	COLUMN B PRESERVATION	COLUMN C QC	COLUMN D TYPE
CCOUNT No: 000T03N50102DE319QB00	SAMPLING ORGANIZATION: Maryland Department of Environment	1. SURFACE WATER 2. GROUND WATER	1. HCL 2. HNO3	(B) BLANK	(G) GRAB/ (C) COMPOSITE
CTIVITY: Expanded Site Inspection	DATE SHIPPED: 4/24/2000 CARRIER: FEDEX	3. LEACHATE 4. FIELD QC	3. NaHSO4 4. H2SO4	(D) DUPLICATE (R) RINSATE	SAMPLES USED FOR LAB QC: R379502 R379503
IRBILL No.: 819742448272	SITE: New Jersey Fireworks	5. SOIL/SEDIMENT 6. OIL (HIGH ONLY)	5. NaOH 6. K2Cr2O7	(PE) P. EVAL (-) NO QC	
ITY: Elkton STATE: MD	SHIP TO: PDP 1680 Lake Front Circle The Woodlands, TX 77280 (281) 363-2233 Attn: [redacted]	7. WASTE (HIGH ONLY) 8. OTHER	7. ICE 8. NONE 9. OTHER:	(DP) DUP. PAIR SPECIFY	

HIPMENT COMPLETE? (Y/N)	FINAL SHIP DATE TO LAB: 4/24/2000	TOTAL NUMBER OF SAMPLES SHIPPED: 9	TOTAL NUMBER OF CONTAINERS SHIPPED: 10

ELINQUISHED BY SIGNATURE:	RECEIVED BY SIGNATURE:	DATE	TIME	RELINQUISHED BY SIGNATURE:	RECEIVED BY SIGNATURE:	DATE	TIME
[signature] 1000							

SAMPLE NUMBER	STATION NUMBER	STATION LOCATION	TAG NUMBER	COLLECTION DATE	COLLECTION TIME	PARAMETERS 1	2	3	4	5	COLUMNS A	B	C	D
R379500	GW-4	GW-4	3-3031051	4/20/2000	1045	X					2	7	-	G
R379501	GW-5	GW-5	3-3031052	4/21/2000	1015	X					2	7		G
R379502	SW-3	SW-3	3-3031053 to 3-3031054	4/20/2000	0945	X					1	7	-	G
R379503	SED-3	SED-3	3-3031055	4/20/2000	0945	X					5	7	-	G
R379504	S-4	S-4	3-3031056	4/21/2000	0900	X					5	7	-	G
R379505	S-6	S-6	3-3031057	4/21/2000	0925	X					5	7	-	G
R379506	S-8	S-8	3-3031058	4/21/2000	0940	X					5	7	-	G
R379507	S-10	S-10	3-3031059	4/21/2000	0900	X					5	7	D	G
R379508	SW-3D	SW-3D	3-3031060	4/20/2000	0945	X	rec'd 6/8/00				1	7	D	G
						X								

PARAMETERS 1	Perchlorates R379502 is duplicate of R379508 M 4/24/00
PARAMETERS 2	R379504 is duplicate of R379507
PARAMETERS 3	per Alan Fong, MDE, Judy Snyder ESAT 7-6-00
PARAMETER 4	
PARAMETERS 5	

U.S. EPA Region III Sample Scheduling Request Form

'S CASE No:	DAS No: R3795	NSF No:
.e: 03/20/00	Data Validation Level: IM2M3	EPA Lab Reply:
Site Name: New Jersey Fireworks		Cost:
Address: 1726 Old Philadelphia Rd.	City: Elkton	State: MD
Latitude: NORTH 39 DEG.,36MIN., 16 SEC	Longitude: WEST 75 DEG., 52 MIN., 30 SEC	Anal +Val Data TAT:21 Days, 30 days
Program: SUPERFUND	CERCLIS No: NONE	Activity: SI
Account No: 2000T03N50102DE319QB00	Operable Unit:	Spill ID:
Preparer: ALAN W. FONG	RPM/PO:WILLIAM WENTWORTH	Site Leader: [redacted]
Phone: (410) 631-3465	Phone: (215) 814-3184	Phone: (410) 631-3493
FAX: (410) 631-3092	FAX: (215) 814-3254	FAX: (410) 631-3472
E-mail: AFONG@MDE.STATE.MD.US	E-mail: WENTWORTH.WILLIAM@EPAMAIL.EPA.GOV	E-mail: CPAJAK@MDE.STATE.MD.US
EPA CO: MDE	Contract Type: STATE / Prime: MD	Sub: NONE
Lab Assignment Date:	Analytical TAT: 21 Days	Ship Date From: 04/17/00
Organic Lab:		Ship Date To: 04/21/00
Inorganic Lab:		Carrier:

AMPLES	METHOD	PARAMETER	MATRIX
15	EPA Method 314	Perchlorates 17187	GW
20	EPA Method 314	Perchlorates 17188	Soil
10	EPA Method 314	Perchlorates 17187	SW
15	EPA Method 314	Perchlorates 17188	Sediment
		3-23-00	

NOTE: Data validation levels M3 & IM2 require justification. QC field samples must be included as part of total number of samples.

1. Special Instructions: For NJ Fireworks preliminary assessment /site inspection report.
2. Objectives / Project Plan ID / Permit ID:
3. Program / Project / Permit Reporting Limits >4ppb
4. DQO (QC Requirements) PER METHOD

PDP Analytical Services
1680 Lake Front Circle Drive, Suite B The Woodlands, TX 77380
Phone: (281) 363-2233 Fax: (281) 298-5784

Episode No: 6020	Client: EPA Region III	Project: R3795

JUN 2000
RECEIVED

CASE NARRATIVE

Sample Receipt and Login

PDP Analytical Services received one (1) shipment, delivered by client on 04/25/00. The four (4) aqueous and five (5) soil samples was scheduled for a fourteen (14) day turn-around-time

No login discrepancies were found during login.

Sample Analysis Narrative

Perchlorates

The samples were prepared and analyzed on 05/24/00. No target compounds were detected in the samples.

The water matrix spike and matrix spike duplicate had high recoveries. Since the samples had no target detections, and all other quality control samples met the required limits, no action was taken.

All soil quality control samples met all requirement. No problems were encountered in the analysis of these samples.

PDP Analytical Services
1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

MS/MSD SUMMARY REPORT

PERCHLORATE BY ION CHROMATOGRAPHY

CLIENT NAME : USEPA, REGION III
PROJECT NAME : SUPERFUND
PROJECT NUMBER : R3795

DATE RECEIVED : 4/25/00
PRINTED ON : 6/6/2000 19:19

SAMPLE MATRIX : WATER

METHOD REFERENCE : EPA-300(MOD)

SAMPLE	MATRIX SPIKE	MATRIX SPIKE DUPLICATE
SAMPLE ID : 6020.001	MS SAMPLE ID : 6020.001MS	MSD SAMPLE ID : 6020.001MSD
CLIENT SAMPLE ID : R379500	CLIENT SAMPLE ID : R379500MS	CLIENT SAMPLE ID : R379500MSD
DATE ANALYZED : 05/24/00	DATE ANALYZED : 05/24/00	DATE ANALYZED : 05/24/00
INSTRUMENT FILE : 0524A161.D11	INSTRUMENT FILE : 0524A161.D15	INSTRUMENT FILE : 0524A161.D16

PARAMETER	UNITS	MS SPIKE ADDED	MSD SPIKE ADDED	SAMPL CONC.	MS CONC.	MSD CONC.	MS RECOVERY (%)	MSD RECOVERY (%)	RPD	RPD LIMIT	QC LIMIT REC.
Perchlorate	UG/L	32.0	32.0	0	41.4	41.0	129 *	128 *	0.8	20	80 - 120

* Indicate values outside of QC limits

RPD : 0 out of 1 outside limits
Spike Recovery : 2 out of 2 outside limits

PDP Analytical Services
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LCS/LCSD SUMMARY REPORT

PERCHLORATE BY ION CHROMATOGRAPHY

CLIENT NAME :
PROJECT NAME :
PROJECT NUMBER :

DATE RECEIVED :
PRINTED ON : 6/6/2000 19:18

SAMPLE MATRIX : LIQUID
METHOD REFERENCE : EPA-300(MOD)

LAB CONTROL SAMPLE
LCS SAMPLE ID : PCLCS04
CLIENT SAMPLE ID :
DATE ANALYZED : 05/24/00
INSTRUMENT FILE : 0524A161.D10

LAB CONTROL SAMPLE DUPLICATE
LCSD SAMPLE ID :
CLIENT SAMPLE ID :
DATE ANALYZED :
INSTRUMENT FILE :

PARAMETER	UNIT	LCS TRUE VALUE	LCSD TRUE VALUE	LCS FOUND VALUE	LCSD FOUN VALUE	LCS RECOVER (%)	LCSD RECOVERY (%)	RPD	RPD LIMIT	QC LIMIT REC.
Perchlorate	UG/L	32.0		34.8		109			20	80 - 120

* Indicate values outside of QC limits

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

PDP Analytical Services
1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

LCS/LCSD SUMMARY REPORT

PERCHLORATE BY ION CHROMATOGRAPHY

CLIENT NAME :
PROJECT NAME :
PROJECT NUMBER :

DATE RECEIVED :
PRINTED ON : 6/6/2000 19:22

SAMPLE MATRIX : SOLID
METHOD REFERENCE : EPA-300

LAB CONTROL SAMPLE
LCS SAMPLE ID : PCLCS05
CLIENT SAMPLE ID :
DATE ANALYZED : 05/24/00
INSTRUMENT FILE : 0524A161.D19

LAB CONTROL SAMPLE DUPLICATE
LCSD SAMPLE ID :
CLIENT SAMPLE ID :
DATE ANALYZED :
INSTRUMENT FILE :

PARAMETER	UNIT	LCS TRUE VALUE	LCSD TRUE VALUE	LCS FOUND VALUE	LCSD FOUN VALUE	LCS RECOVER (%)	LCSD RECOVERY (%)	RPD	RPD LIMIT	QC LIMIT REC.
Perchlorate	UG/KG	50.0		42.4		85			20	2 - 100

* Indicate values outside of QC limits

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

PDP Analytical Services
1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

MS/MSD SUMMARY REPORT

PERCHLORATE BY ION CHROMATOGRAPHY

CLIENT NAME : USEPA, REGION III
PROJECT NAME : SUPERFUND
PROJECT NUMBER : R3795

DATE RECEIVED : 4/25/00
PRINTED ON : 6/6/2000 19:22

SAMPLE MATRIX : SOIL

METHOD REFERENCE : EPA-300

SAMPLE		MATRIX SPIKE		MATRIX SPIKE DUPLICATE	
SAMPLE ID	: 6020.004	MS SAMPLE ID	: 6020.004MS	MSD SAMPLE ID	6020.004MSD
CLIENT SAMPLE ID	: R379503	CLIENT SAMPLE ID	: R379503MS1	CLIENT SAMPLE ID	: R379503MSD1
DATE ANALYZED	: 05/24/00	DATE ANALYZED	: 05/24/00	DATE ANALYZED	: 05/24/00
INSTRUMENT FILE	: 0524A161.D20	INSTRUMENT FILE	: 0524A161.D21	INSTRUMENT FILE	: 0524A161.D22

PARAMETER	UNITS	MS SPIKE ADDED	MSD SPIKE ADDED	SAMPL CONC.	MS CONC.	MSD CONC.	MS RECOVERY (%)	MSD RECOVERY (%)	RPD	RPD LIMIT	QC LIMIT REC.
Perchlorate	UG/KG	73.2	73.2	0	56.6	63.8	77	87	12.2	20	2 - 100

* Indicate values outside of QC limits

RPD : 0 out of 1 outside limits
Spike Recovery : 0 out of 2 outside limits