EPA Region 5 Records Ctr.
298237

L119 801 0003
CHEMETCO
ILD 048 843 809
Superfund/HRS
Sept 2002

CERCLA

Analytical Results

Illinois Environmental
Protection Agency

DATE: May 13, 2002

IEPA
1021 North Grand Avenue East
P.O. Box 19276
Springfield, IL 62794-9276

Attn: Bob Casper

SITE NAME: Chemetco

CASE NO.	LAB	NO. OF SAMPLES	SDG	MATRIX
30394	AATS	20	ME00Q1	Soil

Upon receipt of data, please check each package for completeness and note any missing deliverables below.

Send this form back to Sylvia Griffin, Data Management Coordinator after filling in the blanks below.

Data Received by:_____ Date:_____

PROBLEMS:

Please indicate if data is complete, and note if there are any deliverables missing from the cases noted above.

_____

_____

Received by Data Management Coordinator, CRL for file.
Date:_____

Signature:_____

FROM: U.S. EPA
Region V
Central Regional Laboratory
536 S. Clark, 10th Floor
Chicago, IL 60605

RECEIVED
MAY 16 2002
CRL-PORS

Sent By: Eva M. Dixon, Sr. Data Specialist
ESAT

MAY 13 2002

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE: May 13, 2002

SUBJECT: Review of Data
Received for Review on May 13, 2002

FROM: Stephen L. Ostrodka, Chief (SMF-4J)
Superfund Field Services Section

TO: Data User: IEPA

The data in this case has not been validated.
We have compiled the CADRE files into a narrative format for the following case:

SITE NAME: Chemetco

CASE NUMBER: 30394 **SDG NUMBER:** ME00Q1

Number and Type of Samples: 20 soils

Sample Numbers: ME00Q1-9; ME00R0-9; ME00S0

Laboratory: AATS Hrs. for Review: 2

Following are our findings:

CC: Cecilia Moore
Region 5 TPO
Mail Code: SM-5J

RECEIVED
MAY 16 2002
SEC-FORS

Case Number : 30394
Site Name: Chemetco

SDG Number: ME00Q1
Laboratory: AATS

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

NUMBER (##) MATRIX samples numbered ##, were collected on DATE. The lab received the samples on DATE in good condition. All samples were analyzed for metals and cyanide. All samples were analyzed using CLP SOW ILM04.1 analysis procedures.

Mercury analysis was performed using a Cold Vapor AA Technique. Cyanide analysis was performed using the MIDI Distillation procedure. The remaining inorganic analyses were performed using an Inductively Coupled Plasma-Atomic Emission Spectrometric procedure.

Assembled By: ESAT
Date: May 13, 2002

Case Number : 30394
Site Name: Chemetco

SDG Number: ME00Q1
Laboratory: AATS

1. HOLDING TIME:

Holding Time Report

SDG NO: ME00Q1

HOLDING TIME CRITERIA

Inorganic

	-- Holding Time --		------- pH -------	
	Primary	Expanded	Primary	Expanded
Metals	180	0	2.0	0.0
Mercury	28	0	2.0	0.0
Cyanide	14	0	12.0	0.0

DC-280: The following inorganic soil samples were reviewed for holding time violations using criteria developed for water samples.

ME00Q1, ME00Q2, ME00Q3, ME00Q3D, ME00Q3S, ME00Q4
ME00Q5, ME00Q6, ME00Q7, ME00Q8, ME00Q9, ME00R0
ME00R1, ME00R2, ME00R3, ME00R4, ME00R5, ME00R6
ME00R7, ME00R8, ME00R9, ME00S0

2. CALIBRATIONS:

Calibration Report

SDG NO: ME00Q1

CALIBRATION CRITERIA

Inorganic

Percent Recovery Limits

	--- Primary ---		-- Expanded ---	
	Low	High	Low	High
Cyanide	85.00	115.00	70.00	130.00
AA	90.00	110.00	75.00	125.00
ICP	90.00	110.00	75.00	125.00
Mercury	80.00	120.00	65.00	135.00

No problems found for this qualification.

Assembled By: ESAT
Date: May 13, 2002

Case Number : 30394
Site Name: Chemetco

SDG Number: ME00Q1
Laboratory: AATS

CRDL Standards Report

SDG NO: ME00Q1

DC-373: The following inorganic samples are associated with a CRDL standard with low percent recovery.

Selenium
ME00Q1, ME00Q2, ME00Q3, ME00Q4, ME00Q5, ME00Q6
ME00Q7, ME00Q8, ME00Q9, ME00R0, ME00R1, ME00R2
ME00R3, ME00R4, ME00R5, ME00R6, ME00R7, ME00R8
ME00R9, ME00S0, PBS03

DC-374: The following inorganic samples are associated with a CRDL standard with high percent recovery.
Hits and non-detects are flagged .

Arsenic
ME00Q1, ME00Q2, ME00Q3, ME00Q4, ME00Q5, ME00Q6
ME00Q7, ME00Q8, ME00Q9, ME00R0, ME00R1, ME00R2
ME00R3, ME00R4, ME00R5, ME00R6, ME00R7, ME00R8
ME00R9, ME00S0, PBS03

Copper
ME00Q1, ME00Q2, ME00Q3, ME00Q4, ME00Q5, ME00Q6
ME00Q7, ME00Q8, ME00Q9, ME00R0, ME00R1, ME00R2
ME00R3, ME00R4, ME00R5, ME00R6, ME00R7, ME00R8
ME00R9, ME00S0, PBS03

Lead
ME00Q1, ME00Q2, ME00Q3, ME00Q4, ME00Q5, ME00Q6
ME00Q7, ME00Q8, ME00Q9, ME00R0, ME00R1, ME00R2
ME00R3, ME00R4, ME00R5, ME00R6, ME00R7, ME00R8
ME00R9, ME00S0, PBS03

Nickel
ME00Q1, ME00Q2, ME00Q3, ME00Q4, ME00Q5, ME00Q6
ME00Q7, ME00Q8, ME00Q9, ME00R0, ME00R1, ME00R2
ME00R3, ME00R4, ME00R5, ME00R6, ME00R7, ME00R8
ME00R9, ME00S0, PBS03

Thallium
ME00Q1, ME00Q2, ME00Q3, ME00Q4, ME00Q5, ME00Q6
ME00Q7, ME00Q8, ME00Q9, ME00R0, ME00R1, ME00R2
ME00R3, ME00R4, ME00R5, ME00R6, ME00R7, ME00R8
ME00R9, ME00S0, PBS03

Zinc
ME00Q1, ME00Q2, ME00Q3, ME00Q4, ME00Q5, ME00Q6
ME00Q7, ME00Q8, ME00Q9, ME00R0, ME00R1, ME00R2
ME00R3, ME00R4, ME00R5, ME00R6, ME00R7, ME00R8
ME00R9, ME00S0, PBS03

3. BLANKS:

Laboratory Blanks Report

Assembled By: ESAT
Date: May 13, 2002

SDG NO: ME00Q1

LABORATORY BLANKS CRITERIA

DC-284: The following inorganic samples are associated with a blank concentration which is greater than the instrument detection limit (IDL). The sample concentration is also greater than the IDL and less than five times the blank concentration. Hits are qualified "J"; non-detects are not flagged.

Antimony
ME00Q3A, ME00Q9, ME00R9, ME00S0

DC-338: During review of the following inorganic samples, the reported IDL/default CRDL value was used for cyanide.

ME00Q1, ME00Q2, ME00Q3, ME00Q3D, ME00Q3S, ME00Q4
ME00Q5, ME00Q6, ME00Q7, ME00Q8, ME00Q9, ME00R0
ME00R1, ME00R2, ME00R3, ME00R4, ME00R5, ME00R6
ME00R7, ME00R8, ME00R9, ME00S0

4. MATRIX SPIKE/MATRIX SPIKE DUPLICATE AND LAB CONTROL SAMPLE:

Matrix Spike Report

SDG NO: ME00Q1

MATRIX SPIKE CRITERIA

Inorganic

Percent Recovery Limits

Upper	125.0
Lower	75.0
Extreme lower	30.0

DC-267: The following inorganic samples are associated with a matrix spike recovery which is high (>125%)
Hits are qualified "J" and non-detects are not flagged.

Manganese
ME00Q1, ME00Q2, ME00Q3, ME00Q3A, ME00Q3D, ME00Q4
ME00Q5, ME00Q6, ME00Q7, ME00Q8, ME00Q9, ME00R0
ME00R1, ME00R2, ME00R3, ME00R4, ME00R5, ME00R6
ME00R7, ME00R8, ME00R9, ME00S0

DC-268: The following inorganic samples are associated with a matrix spike recovery which is low (30-74 %) indicating that sample results may be biased low.
Hits are qualified "J" and non-detects are qualified "UJ".

Antimony

Case Number : 30394
Site Name: Chemetco

SDG Number: ME00Q1
Laboratory: AATS

ME00Q1, ME00Q2, ME00Q3, ME00Q3A, ME00Q3D, ME00Q4
ME00Q5, ME00Q6, ME00Q7, ME00Q8, ME00Q9, ME00R0
ME00R1, ME00R2, ME00R3, ME00R4, ME00R5, ME00R6
ME00R7, ME00R8, ME00R9, ME00S0

LCS Report

SDG NO: ME00Q1

DC-331: The following inorganic soil samples are associated with a solid laboratory control sample (LCS) higher than the EPA control limit it are high, indicating a potential positive bias in the sample results. Hits are qualified "J", non-detects are acceptable.

Sodium
ME00Q1, ME00Q2, ME00Q3, ME00Q3D, ME00Q4, ME00Q5
ME00Q6, ME00Q7, ME00Q8, ME00Q9, ME00R0, ME00R1
ME00R2, ME00R3, ME00R4, ME00R5, ME00R6, ME00R7
ME00R8, ME00R9, ME00S0

5. LABORATORY AND FIELD DUPLICATE

Duplicates Report

SDG NO: ME00Q1

DC-256: The following inorganic samples are associated with duplicate results which did not meet relative percent difference (RPD) criteria.
Hits are qualified "J" and non-detects are qualified "UJ".

Lead
ME00Q1, ME00Q2, ME00Q3, ME00Q3S, ME00Q4, ME00Q5
ME00Q6, ME00Q7, ME00Q8, ME00Q9, ME00R0, ME00R1
ME00R2, ME00R3, ME00R4, ME00R5, ME00R6, ME00R7
ME00R8, ME00R9, ME00S0

6. ICP ANALYSIS

ICS Report

SDG NO: ME00Q1

DC-307: The following inorganic samples have no associated ICS analyses. Manual review of the data is required.

ME00Q1
Arsenic

Assembled By: ESAT
Date: May 13, 2002

ME00Q2
Arsenic

ME00Q3
Arsenic

ME00Q4
Arsenic

ME00Q5
Arsenic

ME00Q6
Arsenic

ME00Q7
Arsenic

ME00Q8
Arsenic

DC-312: The following inorganic samples have elements other than Al, Ca, Fe, and Mg at concentrations higher than 10 ppm that may cause potential interference.
Hits are flagged "J" and non-detects are qualified "UJ".

Sodium
ME00R9

Serial Dilution Report

SDG NO: ME00Q1

No problems found for this qualification.

7. GFAA ANALYSIS

Furnace AA QC Report

SDG NO: ME00Q1

No problems found for this qualification.

8. SAMPLE RESULTS

All data, except those qualified above, are acceptable.

Sample Result Verification Report

SDG NO: ME00Q1

Assembled By: ESAT
Date: May 13, 2002

Case Number : 30394
Site Name: Chemetco

SDG Number: ME00Q1
Laboratory: AATS

No problems found for this qualification.

Assembled By: ESAT
Date: May 13, 2002

CADRE Data Qualifier Sheet

Qualifiers	Data Qualifier Definitions
U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J	The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the action limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
R	The data are unusable. (The compound may or may not be present)

Analytical Results (Qualified Data)

Case #: 30394 SDG : ME00Q1
Site : CHEMECTO
Lab. : AATS
Reviewer :
Date :

Number of Soil Samples : 20
Number of Water Samples : 0

Sample Number :	ME00Q1		ME00Q2		ME00Q3		ME00Q4		ME00Q5	
Sampling Location :	X102		X103		X104		X105		X106	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Date Sampled :	04/15/2002		04/15/2002		04/15/2002		04/15/2002		04/15/2002	
Time Sampled :	09:45		09:45		11:00		11:35		12:40	
%Solids :	80.1		80.8		78.6		78.2		78.6	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	6420		5510		10200		5890		7230	
ANTIMONY	1.2	UJ	1.2	UJ	1.3	UJ	1.3	UJ	1.2	UJ
ARSENIC	6.9		6.1		6.9		6.3		13.1	
BARIUM	163		143		170		169		216	
BERYLLIUM	0.62		0.51		0.74		0.59		0.54	
CADMIUM	1.6		1.5		0.64		1.7		1.4	
CALCIUM	7490		4760		4920		3320		3740	
CHROMIUM	9.9		8.3		12.8		9.9		11.8	
COBALT	6.5		5.7		7.6		7.1		8.1	
COPPER	244		204		77.4		225		72.9	
IRON	11900		10400		15800		10300		11500	
LEAD	158	J	122	J	43.2	J	111	J	83.6	J
MAGNESIUM	3880		2370		3220		1870		2240	
MANGANESE	417	J	354	J	421	J	647	J	915	J
MERCURY	0.060	U	0.060	U	0.060	U	0.060	U	0.060	U
NICKEL	24.0		21.5		19.4		18.2		18.9	
POTASSIUM	1890		1730		1660		1530		2330	
SELENIUM	1.2	U	1.2	U	1.3	U	1.3	U	1.2	U
SILVER	0.25	U	0.24	U	0.25	U	0.26	U	0.24	U
SODIUM	329	J	323	J	362	J	361	J	655	J
THALLIUM	1.6		1.6		2.5		1.8		1.2	U
VANADIUM	17.1		15.1		18.5		16.9		21.4	
ZINC	319		252		191		351		164	
CYANIDE	0.12	U	0.12	U	0.12		0.13	U	0.19	

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Analytical Results (Qualified Data)

Case #: 30394 SDG : ME00Q1
Site : CHEMECTO
Lab. : AATS
Reviewer :
Date :

Sample Number :	ME00Q6		ME00Q7		ME00Q8		ME00Q9		ME00R0	
Sampling Location :	X107		X108		X201		X202		X203	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Date Sampled :	04/15/2002		04/15/2002		04/16/2002		04/16/2002		04/16/2002	
Time Sampled :	12:50		13:10		10:40		09:50		09:40	
%Solids :	74.3		79.8		60.3		59.0		51.0	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	9110		9850		7380		11400		18900	
ANTIMONY	1.3	UJ	1.2	UJ	1.7	UJ	3.3	J	2.0	UJ
ARSENIC	6.6		10.5		6.8		7.0		6.4	
BARIUM	167		178		245		226		235	
BERYLLIUM	0.60		0.80		0.64		1.2		1.2	
CADMIUM	0.84		0.71		0.75		10.4		77.4	
CALCIUM	5110		14100		4120		6830		6380	
CHROMIUM	12.7		13.9		11.0		16.5		24.8	
COBALT	6.5		7.5		3.6		8.9		8.1	
COPPER	42.5		25.7		26.6		849		92.6	
IRON	13100		16200		12900		17700		21200	
LEAD	44.8	J	25.7	J	49.7	J	403	J	72.4	J
MAGNESIUM	2840		7000		2380		3660		4730	
MANGANESE	435	J	568	J	201	J	367	J	269	J
MERCURY	0.060	U	0.060	U	0.080	U	0.12		0.10	U
NICKEL	17.6		21.4		12.1		41.8		199	
POTASSIUM	1820		1990		1770		2210		3850	
SELENIUM	1.3	U	1.2	U	1.7	U	1.7	U	2.0	U
SILVER	0.26	U	0.25	U	0.33	U	0.34	U	0.39	U
SODIUM	374	J	358	J	545	J	950	J	3210	J
THALLIUM	1.3	U	1.2	U	1.7	U	2.1		3.1	
VANADIUM	23.5		23.7		20.2		27.2		38.9	
ZINC	112		84.2		109		1380		1190	
CYANIDE	0.20		0.12	U	0.16	U	0.17	U	0.19	U

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Analytical Results (Qualified Data)

Case #: 30394 SDG : ME00Q1
Site : CHEMECTO
Lab. : AATS
Reviewer :
Date :

Sample Number :	ME00R1		ME00R2		ME00R3		ME00R4		ME00R5	
Sampling Location	X204		X205		X206		X207		X208	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Date Sampled :	04/16/2002		04/16/2002		04/16/2002		04/15/2002		04/15/2002	
Time Sampled :	09:20		09:00		09:00		16:00		15:40	
%Solids	57.9		52.5		49.1		49.8		43.4	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	11500		12700		14500		13300		11500	
ANTIMONY	1.7	UJ	1.9	J	2.0	UJ	2.0	UJ	2.2	UJ
ARSENIC	5.3		4.8		6.0		7.4		7.8	
BARIUM	270		253		246		232		205	
BERYLLIUM	0.92		1.1		1.2		1.1		0.78	
CADMIUM	8.1		57.3		32.9		34.8		23.6	
CALCIUM	5720		6760		6810		8230		5500	
CHROMIUM	15.8		18.1		19.7		18.0		15.9	
COBALT	6.0		5.6		5.4		6.3		5.0	
COPPER	35.7		378		259		163		235	
IRON	15300		15300		16300		14900		15600	
LEAD	41.6	J	180	J	143	J	83.4	J	101	J
MAGNESIUM	3450		3940		4010		3950		3200	
MANGANESE	228	J	202	J	194	J	199	J	186	J
MERCURY	0.070	U	0.13		0.13		0.10	U	0.10	
NICKEL	42.3		108		101		97.2		55.3	
POTASSIUM	2320		2870		3080		2500		2000	
SELENIUM	1.9		3.0		2.7		2.0	U	2.3	
SILVER	0.33	U	0.38	U	0.40	U	0.39	U	0.44	U
SODIUM	1590	J	1680	J	1810	J	987	J	1030	J
THALLIUM	2.0		2.3		3.4		2.0	U	2.8	
VANADIUM	26.9		28.8		31.2		30.9		28.0	
ZINC	235		679		578		442		268	
CYANIDE	0.17	U	0.18	U	0.22		0.19	U	0.38	

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Analytical Results (Qualified Data)

Case #: 30394 SDG : ME00Q1
Site : CHEMECTO
Lab. : AATS
Reviewer :
Date :

Sample Number :	ME00R6		ME00R7		ME00R8		ME00R9		ME00S0	
Sampling Location :	X209		X210		X101		X511		X512	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Date Sampled :	04/15/2002		04/15/2002		04/16/2002		04/16/2002		04/16/2002	
Time Sampled :	15:20		15:00		11:00		12:00		12:10	
%Solids :	37.9		35.0		75.9		74.1		81.6	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	9430		10200		6860		8670		6880	
ANTIMONY	2.6	UJ	2.9	UJ	1.3	UJ	3.8	J	1.5	J
ARSENIC	6.0		6.9		4.8		11.6		11.8	
BARIUM	238		240		107		275		221	
BERYLLIUM	0.75		0.73		0.44		1.3		1.2	
CADMIUM	35.1		25.6		0.37		11.3		4.9	
CALCIUM	6470		8440		6770		3990		3240	
CHROMIUM	13.1		14.3		11.6		13.3		10.2	
COBALT	7.8		7.8		6.9		12.4		18.0	
COPPER	148		105		13.3		1780		1750	
IRON	16800		17500		13200		13200		12600	
LEAD	68.7	J	58.2	J	18.3	J	454	J	486	J
MAGNESIUM	3350		4310		3440		3790		2340	
MANGANESE	449	J	498	J	741	J	861	J	969	J
MERCURY	0.11	U	0.11	U	0.070	U	0.080		0.070	
NICKEL	96.5		58.1		14.9		952		598	
POTASSIUM	1950		2160		920		1260		1140	
SELENIUM	2.6	U	2.9	U	1.3	U	1.3	U	1.2	U
SILVER	0.51	U	0.57	U	0.26	U	1.2		0.23	U
SODIUM	1000	J	1080	J	356	J	5280	J	365	J
THALLIUM	3.8		3.8		1.6		1.5		1.2	U
VANADIUM	23.8		25.2		17.7		22.4		22.9	
ZINC	476		380		65.0		1320		642	
CYANIDE	0.26	U	0.27	U	0.26		0.29		0.33	

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Analytical Results (Qualified Data)

Case #: 30394 SDG : ME00Q1
Site : CHEMECTO
Lab. : AATS
Reviewer
Date :

Sample Number :	ME00Q3D		ME00Q3S							
Sampling Location :	X104		X104							
Matrix :	Soil		Soil							
Units :	mg/Kg		mg/Kg							
Date Sampled :	04/15/2002		04/15/2002							
Time Sampled :	11:00		11:00							
%Solids :	78.6		78.6							
Dilution Factor :	1.0		1.0							
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	9680									
ANTIMONY	1.3	UJ	53.8							
ARSENIC	7.6		16.5							
BARIUM	184		675							
BERYLLIUM	0.71		13.3							
CADMIUM	0.70		13.2							
CALCIUM	4830									
CHROMIUM	12.8		66.2							
COBALT	9.7		132							
COPPER	94.7		134							
IRON	15400									
LEAD	62.1		57.3	J						
MAGNESIUM	3110									
MANGANESE	552	J	865							
MERCURY	0.060	U	0.67							
NICKEL	21.4		147							
POTASSIUM	1650									
SELENIUM	1.3	U	2.0							
SILVER	0.25	U	11.9							
SODIUM	378	J								
THALLIUM	1.8		13.9							
VANADIUM	20.5		151							
ZINC	210		337							
CYANIDE	0.12	U	6.3							

DISCLAIMER: This package has been electronically assessed as an added service to our customer. It has not been either validated or approved by Region 5 and any subsequent use by the data user is strictly at the risk of the data user. Region 5 assumes no responsibility for use of unvalidated data.

USEPA Contract Laboratory Program
Inorganic Traffic Report

Case No:	30394
DAS No:	
SDG No:	ME00Q1

L

Date Shipped: 4/16/02	Date Received/Received by: 4/17/02	Sampler (Signature): Bruce Everetts		
Carrier Name: UPS	Lab Contract No: [illegible] Unit Price: 116.25	Relinquished By: Bruce Everetts	Date / Time: 4-16-02 / 1500	Received By:
Airbill: 1Z6215892210020262	Transfer To:	Relinquished By:	Date / Time: 4/17/02 9:30	Received By:
Shipped to: American Analytical & Technical Services, Inc. 1700 West Albany Suite C Broken Arrow OK 74012 (918) 251-0545	Date Received/Received By:	Relinquished By:	Date / Time:	Received By:
	Lab Contract No: Price:			

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE	STATION LOCATION	SAMPLE COLLECT DATE/TIME	ORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
ME00Q1	Soil/ Bruce Everetts	L/G	TM/CN (21)	5-100773 (Ice Only) (1)	X102	4/15/02 9:45		
ME00Q2	Soil/ Bruce Everetts	L/G	TM/CN (21)	5-100774 (Ice Only) (1)	X103	4/15/02 9:45		
ME00Q3	Soil/ Bruce Everetts	L/G	TM/CN (21)	5-100775 (Ice Only) (1)	X104	4/15/02 11:00		
ME00Q4	Soil/ Bruce Everetts	L/G	TM/CN (21)	5-100776 (Ice Only) (1)	X105	4/15/02 11:35		
ME00Q5	Soil/ Bruce Everetts	L/G	TM/CN (21)	5-100777 (Ice Only) (1)	X106	4/15/02 12:40		
ME00Q6	Soil/ Bruce Everetts	L/G	TM/CN (21)	5-100778 (Ice Only) (1)	X107	4/15/02 12:50		
ME00Q7	Soil/ Bruce Everetts	L/G	TM/CN (21)	5-100779 (Ice Only) (1)	X108	4/15/02 13:10		
ME00Q8	Sediment/ Bruce Everetts	L/G	TM/CN (21)	5-100792 (Ice Only) (1)	X201	4/16/02 10:40		
ME00Q9	Sediment/ Bruce Everetts	L/G	TM/CN (21)	5-100793 (Ice Only) (1)	X202	4/16/02 9:50		
ME00R0	Sediment/ Bruce Everetts	L/G	TM/CN (21)	5-100794 (Ice Only) (1)	X203	4/16/02 9:40		
ME00R1	Sediment/ Bruce Everetts	L/G	TM/CN (21)	5-100795 (Ice Only) (1)	X204	4/16/02 9:20		
ME00R2	Sediment/ Bruce Everetts	L/G	TM/CN (21)	5-100796 (Ice Only) (1)	X205	4/16/02 9:00		
ME00R3	Sediment/ Bruce Everetts	L/G	TM/CN (21)	5-100797 (Ice Only) (1)	X206	4/16/02 9:00		
ME00R4	Sediment/ Bruce Everetts	L/G	TM/CN (21)	5-100798 (Ice Only) (1)	X207	4/15/02 16:00		
ME00R5	Sediment/ Bruce Everetts	L/G	TM/CN (21)	5-100799 (Ice Only) (1)	X208	4/15/02 15:40		

Shipment for Case Complete? Y	Sample(s) to be used for laboratory QC: ME00Q3	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 4.3°C TB	Chain of Custody Seal Number: 81438
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? Y / Shipment Iced? Y

TM/CN = CLP TAL Total Metals and Cyanide

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

Send Copy: Contract Laboratory Analytical Services Support, 2000 Edmund Halley Dr., Reston, VA 20191-3436 Phone 703/264-9348 Fax 703/264-9222

TR Number: 5-055166947-041602-0002

USEPA Contract Laboratory Program
Inorganic Traffic Report

Case No: 30394
DAS No:
SDG No: ME00R1

Date Shipped: 4/16/02 Carrier Name: UPS Airbill: 1Z6215892210020262 Shipped to: American Analytical & Technical Services, Inc. 1700 West Albany Suite C Broken Arrow OK 74012 (918) 251-0545	Date Received/Received by: 4-17-02 Lab Contract No: 68-D-99-086 Unit Price: 106.95 Transfer To: Date Received/Received By: Lab Contract No: Price:	Sampler (Signature): Bruce Everetts Bruce Everetts Relinquished By: Bruce Everetts Relinquished By: Relinquished By:	Date / Time: 4-16-02/1500 Date / Time: 4-17-02 9:00 Date / Time:
		Received By: Received By: Received By:	

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE	STATION LOCATION	SAMPLE COLLECT DATE/TIME	ORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
ME00R6	Sediment/ Bruce Everetts	L/G	TM/CN (21)	5-100800 (Ice Only) (1)	X209	4/15/02 15:20		
ME00R7	Sediment/ Bruce Everetts	L/G	TM/CN (21)	5-100801 (Ice Only) (1)	X210	4/15/02 15:00		
ME00R8	Soil/ Bruce Everetts	L/G	TM/CN (21)	5-100802 (Ice Only) (1)	X101	4/16/02 11:00		
ME00R9	Waste/ Bruce Everetts	L/G	TM/CN (21)	5-100803 (Ice Only) (1)	X511	4/16/02 12:00		
ME00S0	Waste/ Bruce Everetts	L/G	TM/CN (21)	5-100804 (Ice Only) (1)	X512	4/16/02 12:10		
ME00S1	Waste/ Bruce Everetts	L/G	TM/CN (21)	5-100805 (Ice Only) (1)	X513	4/16/02 11:50		
ME00S2	Waste/ Bruce Everetts	L/G	TM/CN (21)	5-100806 (Ice Only) (1)	X514	4/16/02 11:30		
ME00S3	Waste/ Bruce Everetts	L/G	TM/CN (21)	5-100807 (Ice Only) (1)	X515	4/16/02 11:40		
ME00S4	Waste/ Bruce Everetts	L/G	TM/CN (21)	5-100982 (Ice Only) (1)	X501	4/16/02 12:50		
ME00S5	Waste/ Bruce Everetts	L/G	TM/CN (21)	5-100983 (Ice Only) (1)	X502	4/16/02 12:50		
ME00S6	Waste/ Bruce Everetts	L/G	TM/CN (21)	5-100984 (Ice Only) (1)	X503	4/16/02 12:40		
ME00S7	Waste/ Bruce Everetts	L/G	TM/CN (21)	5-100985 (Ice Only) (1)	X504	4/16/02 13:00		
ME00S8	Waste/ Bruce Everetts	L/G	TM/CN (21)	5-100986 (Ice Only) (1)	X505	4/16/02 13:20		
ME00S9	Waste/ Bruce Everetts	L/G	TM/CN (21)	5-100987 (Ice Only) (1)	X506	4/16/02 13:30		
ME00T0	Waste/ Bruce Everetts	L/G	TM/CN (21)	5-100988 (Ice Only) (1)	X507	4/16/02 13:40		

Shipment for Case Complete? Y	Sample(s) to be used for laboratory QC: ME OC Q3	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 4.3c TB	Chain of Custody Seal Number: 8143
Analysis Key: TM/CN = CLP TAL Total Metals and Cyanide	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? Y / Shipment Iced? Y

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Contract Laboratory Analytical Services Support, 2000 Edmund Halley Dr., Reston, VA. 20191-3436 Phone 703/264-9348 Fax 703/264-9222

TR Number: 5-055166947-041602-0002

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

MAY 13 2002

SDG NARRATIVE

CONTRACT: 68W00086 **DATE: May 8, 2002**
CASE: 30394 **SOW NO.: ILM04.1**
SDG: ME00Q1 **EPISODE NO.: 49375**

INORGANIC METAL FRACTION:

Twenty soil samples were submitted for ICP, CN and Hg analysis. No major problems occurred during the digestion or analyses of these samples. The cooler temperatures at time of receipt were at 4.3° Celsius. The cooler temperature indicator bottle was present. Sample tags were present. 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, Sb. No action required.

Linearity near the CRDL (CRA & CRI): The CRI standard was outside of our in house warning limits of 70-130%R for the following elements: none. No action required.

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

Lab Control Spikes: No problems.

Matrix Spikes: The following elements were outside the control limits of 75-125% recovery: Sb, Mn.
All associated samples were flagged with a "N" on Form I's. No action required.

Duplicate(s): The following elements were outside the control limits of 0-20% RPD: Cu, Pb, Mn.
All associated samples were flagged with a "*" on Form I's. No action required.

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

Serial Dilution (ICP): The soil serial dilution was outside the control limits of 10% for the following elements: none.
No action required.

Sincerely,

Steve Markham
Operations Manager

U.S. EPA - CLP

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 30394 SAS No.: _____ SDG No.:ME00Q1

SOW No.: ILM04.0 ~ 5/8/02

EPA Sample No.	Lab Sample ID
ME00Q1	49375.01
ME00Q2	49375.02
ME00Q3	49375.03
ME00Q3D	49375.04D
ME00Q3S	49375.05S
ME00Q4	49375.06
ME00Q5	49375.07
ME00Q6	49375.08
ME00Q7	49375.09
ME00Q8	49375.10
ME00Q9	49375.11
ME00R0	49375.12
ME00R1	49375.13
ME00R2	49375.14
ME00R3	49375.15
ME00R4	49375.16
ME00R5	49375.17
ME00R6	49375.18
ME00R7	49375.19
ME00R8	49375.20

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: Steve L. Markham Name: Steve L. Markham

Date: 05/08/02 Title: Operations Manager

U.S. EPA - CLP

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 30394 SAS No.: _____ SDG No.:ME00Q1

SOW No.: ILM04.0 1 5/8/02

EPA Sample No.	Lab Sample ID
_ME00R9_____	_49375.21_____
_ME00S0_____	_49375.22_____

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: Steve L. Markham Name: Steve L. Markham

Date: 05/08/02 Title: Operations Manager

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

ME00Q1

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 30394_ SAS No.: _____ SDG No.: ME00Q1

Matrix (soil/water): SOIL_ Lab Sample ID: 49375.01

Level (low/med): LOW__ Date Received: 04/17/02

% Solids: _80.1

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	6420			P
7440-36-0	Antimony_	1.2	U	N	P
7440-38-2	Arsenic__	6.9			P
7440-39-3	Barium__	163			P
7440-41-7	Beryllium	0.62	B		P
7440-43-9	Cadmium__	1.6			P
7440-70-2	Calcium__	7490			P
7440-47-3	Chromium_	9.9			P
7440-48-4	Cobalt__	6.5	B		P
7440-50-8	Copper__	244		*	P
7439-89-6	Iron____	11900			P
7439-92-1	Lead____	158		*	P
7439-95-4	Magnesium	3880			P
7439-96-5	Manganese	417		N*	P
7439-97-6	Mercury__	0.06	U		CV
7440-02-0	Nickel__	24.0			P
7440-09-7	Potassium	1890			P
7782-49-2	Selenium_	1.2	U		P
7440-22-4	Silver__	0.25	U		P
7440-23-5	Sodium__	329	B		P
7440-28-0	Thallium_	1.6	B		P
7440-62-2	Vanadium_	17.1			P
7440-66-6	Zinc____	319			P
	Cyanide__	0.12	U		CA

Color Before: BROWN____ Clarity Before: _____ Texture: MEDIUM

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

FORM I - IN ILM04.1

U.S. EPA - CLP

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

ME00Q2

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 30394_ SAS No.: _____ SDG No.: ME00Q1

Matrix (soil/water): SOIL_ Lab Sample ID: 49375.02

Level (low/med): LOW__ Date Received: 04/17/02

% Solids: _80.8

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	5510			P
7440-36-0	Antimony_	1.2	U	N	P
7440-38-2	Arsenic__	6.1			P
7440-39-3	Barium__	143			P
7440-41-7	Beryllium	0.51	B		P
7440-43-9	Cadmium__	1.5			P
7440-70-2	Calcium__	4760			P
7440-47-3	Chromium_	8.3			P
7440-48-4	Cobalt___	5.7	B		P
7440-50-8	Copper___	204		*	P
7439-89-6	Iron____	10400			P
7439-92-1	Lead____	122		*	P
7439-95-4	Magnesium	2370			P
7439-96-5	Manganese	354		N*	P
7439-97-6	Mercury__	0.06	U		CV
7440-02-0	Nickel___	21.5			P
7440-09-7	Potassium	1730			P
7782-49-2	Selenium_	1.2	U		P
7440-22-4	Silver___	0.24	U		P
7440-23-5	Sodium___	323	B		P
7440-28-0	Thallium_	1.6	B		P
7440-62-2	Vanadium_	15.1			P
7440-66-6	Zinc____	252			P
	Cyanide__	0.12	U		CA

Color Before: BROWN____ Clarity Before: _____ Texture: MEDIUM

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

FORM I - IN ILM04.1

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

ME00Q3

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 30394_ SAS No.: _____ SDG No.: ME00Q1

Matrix (soil/water): SOIL_ Lab Sample ID: 49375.03

Level (low/med): LOW__ Date Received: 04/17/02

% Solids: _78.6

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	10200			P
7440-36-0	Antimony_	1.3	U	N	P
7440-38-2	Arsenic__	6.9			P
7440-39-3	Barium___	170			P
7440-41-7	Beryllium	0.74	B		P
7440-43-9	Cadmium__	0.64	B		P
7440-70-2	Calcium__	4920			P
7440-47-3	Chromium_	12.8			P
7440-48-4	Cobalt___	7.6	B		P
7440-50-8	Copper___	77.4		*	P
7439-89-6	Iron_____	15800			P
7439-92-1	Lead_____	43.2		*	P
7439-95-4	Magnesium	3220			P
7439-96-5	Manganese	421		N*	P
7439-97-6	Mercury__	0.06	U		CV
7440-02-0	Nickel___	19.4			P
7440-09-7	Potassium	1660			P
7782-49-2	Selenium_	1.3	U		P
7440-22-4	Silver___	0.25	U		P
7440-23-5	Sodium___	362	B		P
7440-28-0	Thallium_	2.5	B		P
7440-62-2	Vanadium_	18.5			P
7440-66-6	Zinc_____	191			P
	Cyanide__	0.12	B		CA

Color Before: BROWN____ Clarity Before: _____ Texture: MEDIUM

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments

FORM I - IN ILM04.1

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

ME00Q4

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 30394_ SAS No.: _____ SDG No.: ME00Q1

Matrix (soil/water): SOIL_ Lab Sample ID: 49375.06

Level (low/med): LOW__ Date Received: 04/17/02

% Solids: _78.2

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	5890			P
7440-36-0	Antimony	1.3	U	N	P
7440-38-2	Arsenic	6.3			P
7440-39-3	Barium	169			P
7440-41-7	Beryllium	0.59	B		P
7440-43-9	Cadmium	1.7			P
7440-70-2	Calcium	3320			P
7440-47-3	Chromium	9.9			P
7440-48-4	Cobalt	7.1	B		P
7440-50-8	Copper	225		*	P
7439-89-6	Iron	10300			P
7439-92-1	Lead	111		*	P
7439-95-4	Magnesium	1870			P
7439-96-5	Manganese	647		N*	P
7439-97-6	Mercury	0.06	U		CV
7440-02-0	Nickel	18.2			P
7440-09-7	Potassium	1530			P
7782-49-2	Selenium	1.3	U		P
7440-22-4	Silver	0.26	U		P
7440-23-5	Sodium	361	B		P
7440-28-0	Thallium	1.8	B		P
7440-62-2	Vanadium	16.9			P
7440-66-6	Zinc	351			P
	Cyanide	0.13	U		CA

Color Before: BROWN____ Clarity Before: _____ Texture: MEDIUM

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

FORM I - IN ILM04.1

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1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

ME00Q5

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 30394_ SAS No.: _____ SDG No.: ME00Q1

Matrix (soil/water): SOIL_ Lab Sample ID: 49375.07

Level (low/med): LOW__ Date Received: 04/17/02

% Solids: _78.6

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	7230			P
7440-36-0	Antimony_	1.2	U	N	P
7440-38-2	Arsenic__	13.1			P
7440-39-3	Barium___	216			P
7440-41-7	Beryllium	0.54	B		P
7440-43-9	Cadmium__	1.4			P
7440-70-2	Calcium__	3740			P
7440-47-3	Chromium_	11.8			P
7440-48-4	Cobalt___	8.1	B		P
7440-50-8	Copper___	72.9		*	P
7439-89-6	Iron_____	11500			P
7439-92-1	Lead____	83.6		*	P
7439-95-4	Magnesium	2240			P
7439-96-5	Manganese	915		N*	P
7439-97-6	Mercury__	0.06	U		CV
7440-02-0	Nickel___	18.9			P
7440-09-7	Potassium	2330			P
7782-49-2	Selenium_	1.2	U		P
7440-22-4	Silver___	0.24	U		P
7440-23-5	Sodium___	655	B		P
7440-28-0	Thallium_	1.2	U		P
7440-62-2	Vanadium_	21.4			P
7440-66-6	Zinc_____	164			P
	Cyanide__	0.19	B		CA

Color Before: BROWN____ Clarity Before: _____ Texture: MEDIUM

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

ME00Q6

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 30394_ SAS No.: _____ SDG No.: ME00Q1

Matrix (soil/water): SOIL_ Lab Sample ID: 49375.08

Level (low/med): LOW__ Date Received: 04/17/02

% Solids: _74.3

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	9110			P
7440-36-0	Antimony_	1.3	U	N	P
7440-38-2	Arsenic__	6.6			P
7440-39-3	Barium___	167			P
7440-41-7	Beryllium	0.60	B		P
7440-43-9	Cadmium__	0.84	B		P
7440-70-2	Calcium__	5110			P
7440-47-3	Chromium_	12.7			P
7440-48-4	Cobalt___	6.5	B		P
7440-50-8	Copper___	42.5		*	P
7439-89-6	Iron_____	13100			P
7439-92-1	Lead_____	44.8		*	P
7439-95-4	Magnesium	2840			P
7439-96-5	Manganese	435		N*	P
7439-97-6	Mercury__	0.06	U		CV
7440-02-0	Nickel___	17.6			P
7440-09-7	Potassium	1820			P
7782-49-2	Selenium_	1.3	U		P
7440-22-4	Silver___	0.26	U		P
7440-23-5	Sodium___	374	B		P
7440-28-0	Thallium_	1.3	U		P
7440-62-2	Vanadium_	23.5			P
7440-66-6	Zinc_____	112			P
	Cyanide__	0.20	B		CA

Color Before: BROWN____ Clarity Before: _____ Texture: MEDIUM

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

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EPA SAMPLE NO.

ME00Q7

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 30394_ SAS No.: _____ SDG No.: ME00Q1

Matrix (soil/water): SOIL_ Lab Sample ID: 49375.09

Level (low/med): LOW__ Date Received: 04/17/02

% Solids: _79.8

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	9850			P
7440-36-0	Antimony_	1.2	U	N	P
7440-38-2	Arsenic__	10.5			P
7440-39-3	Barium___	178			P
7440-41-7	Beryllium	0.80	B		P
7440-43-9	Cadmium__	0.71	B		P
7440-70-2	Calcium__	14100			P
7440-47-3	Chromium_	13.9			P
7440-48-4	Cobalt___	7.5	B		P
7440-50-8	Copper___	25.7		*	P
7439-89-6	Iron_____	16200			P
7439-92-1	Lead_____	25.7		*	P
7439-95-4	Magnesium	7000			P
7439-96-5	Manganese	568		N*	P
7439-97-6	Mercury__	0.06	U		CV
7440-02-0	Nickel___	21.4			P
7440-09-7	Potassium	1990			P
7782-49-2	Selenium_	1.2	U		P
7440-22-4	Silver___	0.25	U		P
7440-23-5	Sodium___	358	B		P
7440-28-0	Thallium_	1.2	U		P
7440-62-2	Vanadium_	23.7			P
7440-66-6	Zinc_____	84.2			P
	Cyanide__	0.12	U		CA

Color Before: BROWN____ Clarity Before: _____ Texture: MEDIUM

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

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EPA SAMPLE NO.

ME00Q8

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 30394_ SAS No.: _____ SDG No.: ME00Q1

Matrix (soil/water): SOIL_ Lab Sample ID: 49375.10

Level (low/med): LOW__ Date Received: 04/17/02

% Solids: _60.3

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	7380			P
7440-36-0	Antimony	1.7	U	N	P
7440-38-2	Arsenic	6.8			P
7440-39-3	Barium	245			P
7440-41-7	Beryllium	0.64	B		P
7440-43-9	Cadmium	0.75	B		P
7440-70-2	Calcium	4120			P
7440-47-3	Chromium	11.0			P
7440-48-4	Cobalt	3.6	B		P
7440-50-8	Copper	26.6		*	P
7439-89-6	Iron	12900			P
7439-92-1	Lead	49.7		*	P
7439-95-4	Magnesium	2380			P
7439-96-5	Manganese	201		N*	P
7439-97-6	Mercury	0.08	U		CV
7440-02-0	Nickel	12.1	B		P
7440-09-7	Potassium	1770			P
7782-49-2	Selenium	1.7	U		P
7440-22-4	Silver	0.33	U		P
7440-23-5	Sodium	545	B		P
7440-28-0	Thallium	1.7	U		P
7440-62-2	Vanadium	20.2			P
7440-66-6	Zinc	109			P
	Cyanide	0.16	U		CA

Color Before: BROWN____ Clarity Before: _____ Texture: MEDIUM

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

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EPA SAMPLE NO.

ME00Q9

Lab Name AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code AATS__ Case No.: 30394_ SAS No.: _____ SDG No.: ME00Q1

Matrix (soil/water): SOIL_ Lab Sample ID: 49375.11

Level (low/med): LOW__ Date Received: 04/17/02

% Solids _59.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	11400			P
7440-36-0	Antimony_	3.3	B	N	P
7440-38-2	Arsenic__	7.0			P
7440-39-3	Barium__	226			P
7440-41-7	Beryllium	1.2	B		P
7440-43-9	Cadmium__	10.4			P
7440-70-2	Calcium__	6830			P
7440-47-3	Chromium_	16.5			P
7440-48-4	Cobalt___	8.9	B		P
7440-50-8	Copper___	849		*	P
7439-89-6	Iron____	17700			P
7439-92-1	Lead____	403		*	P
7439-95-4	Magnesium	3660			P
7439-96-5	Manganese	367		N*	P
7439-97-6	Mercury__	0.12	B		CV
7440-02-0	Nickel___	41.8			P
7440-09-7	Potassium	2210			P
7782-49-2	Selenium_	1.7	U		P
7440-22-4	Silver___	0.34	U		P
7440-23-5	Sodium___	950	B		P
7440-28-0	Thallium_	2.1	B		P
7440-62-2	Vanadium_	27.2			P
7440-66-6	Zinc____	1380			P
	Cyanide__	0.17	U		CA

Color Before: BROWN____ Clarity Before: _____ Texture: MEDIUM

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

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EPA SAMPLE NO.

ME00R0

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 30394_ SAS No.: _____ SDG No.: ME00Q1

Matrix (soil/water): SOIL_ Lab Sample ID: 49375.12

Level (low/med): LOW__ Date Received: 04/17/02

% Solids: _51.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	18900			P
7440-36-0	Antimony_	2.0	U	N	P
7440-38-2	Arsenic__	6.4			P
7440-39-3	Barium__	235			P
7440-41-7	Beryllium	1.2	B		P
7440-43-9	Cadmium__	77.4			P
7440-70-2	Calcium__	6380			P
7440-47-3	Chromium_	24.8			P
7440-48-4	Cobalt___	8.1	B		P
7440-50-8	Copper___	92.6		*	P
7439-89-6	Iron_____	21200			P
7439-92-1	Lead____	72.4		*	P
7439-95-4	Magnesium	4730			P
7439-96-5	Manganese	269		N*	P
7439-97-6	Mercury__	0.10	U		CV
7440-02-0	Nickel___	199			P
7440-09-7	Potassium	3850			P
7782-49-2	Selenium_	2.0	U		P
7440-22-4	Silver___	0.39	U		P
7440-23-5	Sodium___	3210			P
7440-28-0	Thallium_	3.1	B		P
7440-62-2	Vanadium_	38.9			P
7440-66-6	Zinc_____	1190			P
	Cyanide__	0.19	U		CA

Color Before: BROWN____ Clarity Before: _____ Texture: MEDIUM

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

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EPA SAMPLE NO.

ME00R1

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 30394_ SAS No.: _____ SDG No.: ME00Q1

Matrix (soil/water): SOIL_ Lab Sample ID: 49375.13

Level (low/med): LOW__ Date Received: 04/17/02

% Solids: _57.9

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	11500			P
7440-36-0	Antimony_	1.7	U	N	P
7440-38-2	Arsenic__	5.3			P
7440-39-3	Barium__	270			P
7440-41-7	Beryllium	0.92	B		P
7440-43-9	Cadmium__	8.1			P
7440-70-2	Calcium__	5720			P
7440-47-3	Chromium_	15.8			P
7440-48-4	Cobalt___	6.0	B		P
7440-50-8	Copper___	35.7		*	P
7439-89-6	Iron_____	15300			P
7439-92-1	Lead_____	41.6		*	P
7439-95-4	Magnesium	3450			P
7439-96-5	Manganese	228		N*	P
7439-97-6	Mercury__	0.07	U		CV
7440-02-0	Nickel___	42.3			P
7440-09-7	Potassium	2320			P
7782-49-2	Selenium_	1.9			P
7440-22-4	Silver___	0.33	U		P
7440-23-5	Sodium___	1590	B		P
7440-28-0	Thallium_	2.0	B		P
7440-62-2	Vanadium_	26.9			P
7440-66-6	Zinc_____	235			P
	Cyanide__	0.17	U		CA

Color Before: BROWN____ Clarity Before: _____ Texture: MEDIUM

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

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EPA SAMPLE NO.

ME00R2

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 30394_ SAS No.: _____ SDG No.: ME00Q1

Matrix (soil/water): SOIL_ Lab Sample ID: 49375.14

Level (low/med): LOW__ Date Received: 04/17/02

% Solids: _52.5

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	12700			P
7440-36-0	Antimony_	1.9	B	N	P
7440-38-2	Arsenic__	4.8			P
7440-39-3	Barium___	253			P
7440-41-7	Beryllium	1.1	B		P
7440-43-9	Cadmium__	57.3			P
7440-70-2	Calcium__	6760			P
7440-47-3	Chromium_	18.1			P
7440-48-4	Cobalt___	5.6	B		P
7440-50-8	Copper___	378		*	P
7439-89-6	Iron_____	15300			P
7439-92-1	Lead_____	180		*	P
7439-95-4	Magnesium	3940			P
7439-96-5	Manganese	202		N*	P
7439-97-6	Mercury__	0.13	B		CV
7440-02-0	Nickel___	108			P
7440-09-7	Potassium	2870			P
7782-49-2	Selenium_	3.0			P
7440-22-4	Silver___	0.38	U		P
7440-23-5	Sodium___	1680	B		P
7440-28-0	Thallium_	2.3	B		P
7440-62-2	Vanadium_	28.8			P
7440-66-6	Zinc_____	679			P
	Cyanide__	0.18	U		CA

Color Before: BROWN____ Clarity Before: _____ Texture: MEDIUM

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

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EPA SAMPLE NO.

ME00R3

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 30394_ SAS No.: _____ SDG No.: ME00Q1

Matrix (soil/water): SOIL_ Lab Sample ID: 49375.15

Level (low/med): LOW__ Date Received: 04/17/02

% Solids: _49.1

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	14500			P
7440-36-0	Antimony_	2.0	U	N	P
7440-38-2	Arsenic__	6.0			P
7440-39-3	Barium___	246			P
7440-41-7	Beryllium	1.2	B		P
7440-43-9	Cadmium__	32.9			P
7440-70-2	Calcium__	6810			P
7440-47-3	Chromium_	19.7			P
7440-48-4	Cobalt___	5.4	B		P
7440-50-8	Copper___	259		*	P
7439-89-6	Iron_____	16300			P
7439-92-1	Lead_____	143		*	P
7439-95-4	Magnesium	4010			P
7439-96-5	Manganese	194		N*	P
7439-97-6	Mercury__	0.13	B		CV
7440-02-0	Nickel___	101			P
7440-09-7	Potassium	3080			P
7782-49-2	Selenium_	2.7			P
7440-22-4	Silver___	0.40	U		P
7440-23-5	Sodium___	1810	B		P
7440-28-0	Thallium_	3.4	B		P
7440-62-2	Vanadium_	31.2			P
7440-66-6	Zinc_____	578			P
	Cyanide__	0.22	B		CA

Color Before: BROWN____ Clarity Before: _____ Texture: MEDIUM

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

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EPA SAMPLE NO.

ME00R4

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 30394_ SAS No.: _____ SDG No.: ME00Q1

Matrix (soil/water): SOIL_ Lab Sample ID: 49375.16

Level (low/med): LOW__ Date Received: 04/17/02

% Solids: _49.8

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	13300	_		P_
7440-36-0	Antimony_	2.0	U	N	P_
7440-38-2	Arsenic__	7.4	_		P_
7440-39-3	Barium___	232	_		P_
7440-41-7	Beryllium	1.1	B		P_
7440-43-9	Cadmium__	34.8	_		P_
7440-70-2	Calcium__	8230	_		P_
7440-47-3	Chromium_	18.0	_		P_
7440-48-4	Cobalt___	6.3	B		P_
7440-50-8	Copper___	163	_	*	P_
7439-89-6	Iron_____	14900	_		P_
7439-92-1	Lead_____	83.4	_	*	P_
7439-95-4	Magnesium	3950	_		P_
7439-96-5	Manganese	199	_	N*	P_
7439-97-6	Mercury__	0.10	U		CV
7440-02-0	Nickel___	97.2	_		P_
7440-09-7	Potassium	2500	_		P_
7782-49-2	Selenium_	2.0	U		P_
7440-22-4	Silver___	0.39	U		P_
7440-23-5	Sodium___	987	B		P_
7440-28-0	Thallium_	2.0	U		P_
7440-62-2	Vanadium_	30.9	_		P_
7440-66-6	Zinc_____	442	_		P_
	Cyanide__	0.19	U		CA

Color Before: BROWN____ Clarity Before: _____ Texture: MEDIUM

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

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EPA SAMPLE NO.

ME00R5

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 30394_ SAS No.: _____ SDG No.: ME00Q1

Matrix (soil/water): SOIL_ Lab Sample ID: 49375.17

Level (low/med): LOW__ Date Received: 04/17/02

% Solids: _43.4

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	11500			P
7440-36-0	Antimony_	2.2	U	N	P
7440-38-2	Arsenic__	7.8			P
7440-39-3	Barium___	205			P
7440-41-7	Beryllium	0.79	B		P
7440-43-9	Cadmium__	23.6			P
7440-70-2	Calcium__	5500			P
7440-47-3	Chromium_	15.9			P
7440-48-4	Cobalt___	5.0	B		P
7440-50-8	Copper___	235		*	P
7439-89-6	Iron_____	15600			P
7439-92-1	Lead_____	101		*	P
7439-95-4	Magnesium	3200			P
7439-96-5	Manganese	186		N*	P
7439-97-6	Mercury__	0.10	B		CV
7440-02-0	Nickel___	55.3			P
7440-09-7	Potassium	2000	B		P
7782-49-2	Selenium_	2.3			P
7440-22-4	Silver___	0.44	U		P
7440-23-5	Sodium___	1030	B		P
7440-28-0	Thallium_	2.8	B		P
7440-62-2	Vanadium_	28.0			P
7440-66-6	Zinc_____	268			P
	Cyanide__	0.38	B		CA

Color Before: BROWN____ Clarity Before: _____ Texture: MEDIUM

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

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EPA SAMPLE NO.

ME00R6

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 30394_ SAS No.: _____ SDG No.: ME00Q1

Matrix (soil/water): SOIL_ Lab Sample ID: 49375.18

Level (low/med): LOW__ Date Received: 04/17/02

% Solids: _37.9

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	9430			P
7440-36-0	Antimony_	2.6	U	N	P
7440-38-2	Arsenic__	6.0			P
7440-39-3	Barium___	238			P
7440-41-7	Beryllium	0.75	B		P
7440-43-9	Cadmium__	35.1			P
7440-70-2	Calcium__	6470			P
7440-47-3	Chromium_	13.1			P
7440-48-4	Cobalt___	7.8	B		P
7440-50-8	Copper___	148		*	P
7439-89-6	Iron_____	16800			P
7439-92-1	Lead_____	68.7		*	P
7439-95-4	Magnesium	3350			P
7439-96-5	Manganese	449		N*	P
7439-97-6	Mercury__	0.11	U		CV
7440-02-0	Nickel___	96.5			P
7440-09-7	Potassium	1950	B		P
7782-49-2	Selenium_	2.6	U		P
7440-22-4	Silver___	0.51	U		P
7440-23-5	Sodium___	1000	B		P
7440-28-0	Thallium_	3.8	B		P
7440-62-2	Vanadium_	23.8	B		P
7440-66-6	Zinc_____	476			P
	Cyanide__	0.26	U		CA

Color Before: BROWN____ Clarity Before: _____ Texture: MEDIUM

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

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EPA SAMPLE NO.

ME00R7

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 30394_ SAS No.: _____ SDG No.: ME00Q1

Matrix (soil/water): SOIL_ Lab Sample ID: 49375.19

Level (low/med): LOW__ Date Received: 04/17/02

% Solids: _35.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	10200			P
7440-36-0	Antimony_	2.9	U	N	P
7440-38-2	Arsenic__	6.9			P
7440-39-3	Barium__	240			P
7440-41-7	Beryllium	0.73	B		P
7440-43-9	Cadmium__	25.6			P
7440-70-2	Calcium__	8440			P
7440-47-3	Chromium_	14.3			P
7440-48-4	Cobalt__	7.8	B		P
7440-50-8	Copper__	105		*	P
7439-89-6	Iron____	17500			P
7439-92-1	Lead____	58.2		*	P
7439-95-4	Magnesium	4310			P
7439-96-5	Manganese	498		N*	P
7439-97-6	Mercury__	0.11	U		CV
7440-02-0	Nickel__	58.1			P
7440-09-7	Potassium	2160	B		P
7782-49-2	Selenium_	2.9	U		P
7440-22-4	Silver__	0.57	U		P
7440-23-5	Sodium__	1080	B		P
7440-28-0	Thallium_	3.8	B		P
7440-62-2	Vanadium_	25.2	B		P
7440-66-6	Zinc____	380			P
	Cyanide__	0.27	U		CA

Color Before: BROWN____ Clarity Before: _____ Texture: MEDIUM

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

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1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

ME00R8

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 30394_ SAS No.: _____ SDG No.: ME00Q1

Matrix (soil/water): SOIL_ Lab Sample ID: 49375.20

Level (low/med): LOW__ Date Received: 04/17/02

% 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_	6860			P
7440-36-0	Antimony_	1.3	U	N	P
7440-38-2	Arsenic__	4.8			P
7440-39-3	Barium__	107			P
7440-41-7	Beryllium	0.44	B		P
7440-43-9	Cadmium__	0.37	B		P
7440-70-2	Calcium__	6770			P
7440-47-3	Chromium_	11.6			P
7440-48-4	Cobalt___	6.9	B		P
7440-50-8	Copper___	13.3		*	P
7439-89-6	Iron____	13200			P
7439-92-1	Lead____	18.3		*	P
7439-95-4	Magnesium	3440			P
7439-96-5	Manganese	741		N*	P
7439-97-6	Mercury__	0.07	U		CV
7440-02-0	Nickel___	14.9			P
7440-09-7	Potassium	920	B		P
7782-49-2	Selenium_	1.3	U		P
7440-22-4	Silver___	0.26	U		P
7440-23-5	Sodium___	356	B		P
7440-28-0	Thallium_	1.6	B		P
7440-62-2	Vanadium_	17.7			P
7440-66-6	Zinc____	65.0			P
	Cyanide__	0.26	B		CA

Color Before: BROWN____ Clarity Before: _____ Texture: MEDIUM

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

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1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

ME00R9

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 30394_ SAS No.: _____ SDG No.: ME00Q1

Matrix (soil/water): SOIL_ Lab Sample ID: 49375.21

Level (low/med): LOW__ Date Received: 04/17/02

% Solids: _74.1

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	8670			P
7440-36-0	Antimony_	3.8	B	N	P
7440-38-2	Arsenic__	11.6			P
7440-39-3	Barium___	275			P
7440-41-7	Beryllium	1.3	B		P
7440-43-9	Cadmium__	11.3			P
7440-70-2	Calcium__	3990			P
7440-47-3	Chromium_	13.3			P
7440-48-4	Cobalt___	12.4	B		P
7440-50-8	Copper___	1780		*	P
7439-89-6	Iron_____	13200			P
7439-92-1	Lead_____	454		*	P
7439-95-4	Magnesium	3790			P
7439-96-5	Manganese	861		N*	P
7439-97-6	Mercury__	0.08	B		CV
7440-02-0	Nickel___	952			P
7440-09-7	Potassium	1260	B		P
7782-49-2	Selenium_	1.3	U		P
7440-22-4	Silver___	1.2	B		P
7440-23-5	Sodium___	5280			P
7440-28-0	Thallium_	1.5	B		P
7440-62-2	Vanadium_	22.4			P
7440-66-6	Zinc_____	1320			P
	Cyanide__	0.29	B		CA

Color Before: BROWN____ Clarity Before: _____ Texture: MEDIUM

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments

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1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

ME00S0

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 30394_ SAS No.: _____ SDG No.: ME00Q1

Matrix (soil/water): SOIL_ Lab Sample ID: 49375.22

Level (low/med): LOW__ Date Received: 04/17/02

% Solids: _81.6

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	6880			P
7440-36-0	Antimony_	1.5	B	N	P
7440-38-2	Arsenic__	11.8			P
7440-39-3	Barium___	221			P
7440-41-7	Beryllium	1.2			P
7440-43-9	Cadmium__	4.9			P
7440-70-2	Calcium__	3240			P
7440-47-3	Chromium_	10.2			P
7440-48-4	Cobalt___	18.0			P
7440-50-8	Copper___	1750		*	P
7439-89-6	Iron_____	12600			P
7439-92-1	Lead_____	486		*	P
7439-95-4	Magnesium	2340			P
7439-96-5	Manganese	969		N*	P
7439-97-6	Mercury__	0.07	B		CV
7440-02-0	Nickel___	598			P
7440-09-7	Potassium	1140	B		P
7782-49-2	Selenium_	1.2	U		P
7440-22-4	Silver___	0.23	U		P
7440-23-5	Sodium___	365	B		P
7440-28-0	Thallium_	1.2	U		P
7440-62-2	Vanadium_	22.9			P
7440-66-6	Zinc_____	642			P
	Cyanide__	0.33	B		CA

Color Before: BROWN____ Clarity Before: _____ Texture: MEDIUM

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

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3
BLANKS

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 30394_ SAS No.: _____ SDG No.: ME00Q1

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	-25.2	B	13.0	U	-35.1	B	-44.8	B	3.17	B	P
Antimony	5.3	B	7.2	B	5.0	U	5.8	B	1.00	U	P
Arsenic	4.0	U	4.0	U	4.0	U	4.0	U	0.80	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	13.0	U	13.0	U	13.0	U	13.0	U	6.82	B	P
Chromium	1.0	U	1.0	U	1.0	U	1.0	U	0.20	U	P
Cobalt	2.0	U	2.0	U	2.0	U	2.0	U	0.40	U	P
Copper	3.0	U	3.0	U	3.0	U	3.0	U	0.93	B	P
Iron	28.0	U	28.0	U	28.0	U	28.0	U	5.60	U	P
Lead	2.0	U	2.0	U	2.0	U	2.0	U	0.40	U	P
Magnesium	10.0	U	10.0	U	10.0	U	10.0	U	2.00	U	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	2.0	U	2.0	U	2.0	U	2.0	U	0.40	U	P
Potassium	55.0	U	55.0	U	55.0	U	55.0	U	11.00	U	P
Selenium	5.0	U	5.0	U	5.0	U	5.0	U	1.00	U	P
Silver	1.0	U	1.0	U	1.0	U	1.0	U	0.20	U	P
Sodium	24.0	U	24.0	U	24.0	U	24.0	U	4.80	U	P
Thallium	5.0	U	5.0	U	5.0	U	5.0	U	1.00	U	P
Vanadium	1.0	U	1.0	U	1.0	U	1.0	U	0.20	U	P
Zinc	4.0	U	4.0	U	4.0	U	4.0	U	2.37	B	P
Cyanide	2.0	U	2.0	U	2.0	U	2.0	U	0.10	U	CA

3
BLANKS

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 30394_ SAS No.: _____ SDG No.: ME00Q1

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			-43.6	B	-22.8	B					P
Antimony			6.5	B	5.0	U					P
Arsenic	4.0	U	4.0	U	4.0	U	4.0	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			13.0	U	13.0	U					P
Chromium			1.0	U	1.0	U					P
Cobalt			2.0	U	2.0	U					P
Copper			3.0	U	3.0	U					P
Iron			28.0	U	28.0	U					P
Lead			2.0	U	2.0	U					P
Magnesium			10.0	U	10.0	U					P
Manganese			1.0	U	1.0	U					P
Mercury			0.1	U	0.1	U	0.1	U			CV
Nickel			2.0	U	2.0	U					P
Potassium			55.0	U	55.0	U					P
Selenium			5.0	U	5.0	U					P
Silver			1.0	U	1.0	U					P
Sodium			24.0	U	24.0	U					P
Thallium			5.0	U	5.0	U					P
Vanadium			1.0	U	1.0	U					P
Zinc			4.0	U	4.0	U					P
Cyanide			2.0	U							CA

3
BLANKS

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 30394_ SAS No.: _____ SDG No.: ME0021

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											NR
Selenium											NR
Silver											NR
Sodium											NR
Thallium											NR
Vanadium											NR
Zinc											NR
Cyanide											NR

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5A
SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

ME00Q3S

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086

Lab Code: AATS Case No.: 30394 SAS No.: _____ SDG No.: ME00Q1

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

% Solids for Sample: 78.6

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

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									NR
Antimony	75-125	53.8109		1.2723	U	127.23	42.3	N	P
Arsenic	75-125	16.5435		6.9178		10.18	94.6		P
Barium	75-125	675.1781		169.7705		508.91	99.3		P
Beryllium	75-125	13.3430		0.7443	B	12.72	99.0		P
Cadmium	75-125	13.1880		0.6422	B	12.72	98.6		P
Calcium									NR
Chromium	75-125	66.1715		12.7977		50.89	104.9		P
Cobalt	75-125	132.4130		7.6023	B	127.23	98.1		P
Copper	75-125	134.1832		77.4198		63.61	89.2		P
Iron									NR
Lead		57.2952		43.2033		5.09	276.9		P
Magnesium									NR
Manganese	75-125	864.7995		421.3852		127.23	348.5	N	P
Mercury	75-125	0.6679		0.0636	U	0.64	104.4		CV
Nickel	75-125	147.1667		19.3560		127.23	100.5		P
Potassium									NR
Selenium	75-125	2.0364		1.2723	U	2.54	80.2		P
Silver	75-125	11.9328		0.2545	U	12.72	93.8		P
Sodium									NR
Thallium	75-125	13.9084		2.5000	B	12.72	89.7		P
Vanadium	75-125	151.0779		18.4733		127.23	104.2		P
Zinc	75-125	336.8725		191.3305		127.23	114.4		P
Cyanide	75-125	6.3074		0.1250	B	6.06	102.0		CA

Comments:

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5B
POST DIGEST SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

ME00Q3A

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 30394_ SAS No.: _____ SDG No.: ME00Q1

Matrix (soil/water) : SOIL__ Level (low/med): LOW___

Concentration Units: ug/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Added (SA)	%R	Q	M
Aluminum									NR
Antimony		116.90		5.00	U	120.0	97.4		P
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead									NR
Magnesium									NR
Manganese		4631.22		1656.04		3312.0	89.8		P
Mercury									NR
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide									NR

Comments:

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6
DUPLICATES

EPA SAMPLE NO.

ME00Q3D

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 30394_ SAS No.: _____ SDG No.: ME00Q1

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

% Solids for Sample: _78.6 % Solids for Duplicate: __76.5

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

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum		10194.3262		9683.1216		5.1		P
Antimony		1.2723	U	1.2723	U			P
Arsenic	2.5445	6.9178		7.6328		9.8		P
Barium	50.8906	169.7705		184.3710		8.2		P
Beryllium		0.7443	B	0.7099	B	4.7		P
Cadmium		0.6422	B	0.6959	B	8.0		P
Calcium	1272.265	4920.3308		4832.5934		1.8		P
Chromium		12.7977		12.8226		0.2		P
Cobalt		7.6023	B	9.6997	B	24.2		P
Copper		77.4198		94.6855		20.1	*	P
Iron		15791.9066		15366.4565		2.7		P
Lead		43.2033		62.1369		35.9	*	P
Magnesium	1272.265	3220.1489		3109.4545		3.5		P
Manganese		421.3852		552.2766		26.9	*	P
Mercury		0.0636	U	0.0636	U			CV
Nickel	10.1781	19.3560		21.4399		10.2		P
Potassium	1272.265	1657.8084		1647.0634		0.7		P
Selenium		1.2723	U	1.2723	U			P
Silver		0.2545	U	0.2545	U			P
Sodium		362.4282	B	378.4300	B	4.3		P
Thallium		2.5000	B	1.7774	B	33.8		P
Vanadium	12.7226	18.4733		20.4631		10.2		P
Zinc		191.3305		209.5445		9.1		P
Cyanide		0.1250	B	0.1212	U	200.0		CA

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7
LABORATORY CONTROL SAMPLE

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 30394_ SAS No.: _____ SDG No.: ME00Q1

Solid LCS Source: EPA0996_____

Aqueous LCS Source: _____

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits		%R
Aluminum				309.0	241.7		193.1	424.2	78.2
Antimony				213.0	242.5		129.4	297.2	113.8
Arsenic				930.0	952.8		613.6	1247.0	102.5
Barium				5.3	5.1	B	2.5	8.1	96.2
Beryllium				18.8	18.3		15.3	22.2	97.3
Cadmium				41.6	41.2		32.1	51.1	99.0
Calcium				184000.5	160762.4		142933.0	225376.0	87.4
Chromium				96.5	95.6		77.8	115.2	99.1
Cobalt				140.0	138.0		115.4	165.0	98.6
Copper				6680.0	6943.2		5727.3	7633.1	103.9
Iron				21000.0	20403.0		16831.3	25193.0	97.
Lead				224.0	210.8		167.6	280.5	94.1
Magnesium				113000.0	117332.2		97493.0	128886.0	103.8
Manganese				201.0	200.4		167.9	234.4	99.7
Mercury				12.3	10.5		7.8	16.9	85.4
Nickel				56.8	56.7		43.5	70.1	99.8
Potassium				102.4	26.9	B	0.0	379.3	26.3
Selenium				37.0	40.2		17.6	56.4	108.6
Silver				20.9	21.6		13.2	28.5	103.3
Sodium				92.8	307.1	B	0.0	277.4	330.9
Thallium				38.1	36.4		21.6	51.6	95.5
Vanadium				65.8	63.2		53.0	78.6	96.0
Zinc				175.0	171.3		127.7	222.1	97.9
Cyanide				5.6	5.6		4.1	7.1	100.0

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10
Instrument Detection Limits (Quarterly)

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 30394_ SAS No.: _____ SDG No.: ME00Q1

ICP ID Number: TJA_ET3_____ Date: 03/05/02

Flame AA ID Number : _____

Furnace AA ID Number : _____

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum	308.16		200	13.0	P
Antimony	206.84		60	5.0	P
Arsenic	189.04		10	4.0	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	13.0	P
Chromium	267.75		10	1.0	P
Cobalt	228.61		50	2.0	P
Copper	324.75		25	3.0	P
Iron	271.44		100	28.0	P
Lead	220.35		3	2.0	P
Magnesium	279.81		5000	10.0	P
Manganese	257.61		15	1.0	P
Mercury			0.2		NR
Nickel	231.60		40	2.0	P
Potassium	766.49		5000	55.0	P
Selenium	196.03		5	5.0	P
Silver	328.07		10	1.0	P
Sodium	588.99		5000	24.0	P
Thallium	190.68		10	5.0	P
Vanadium	292.40		50	1.0	P
Zinc	213.86		20	4.0	P
Cyanide			10		NR

Comments:

10
Instrument Detection Limits (Quarterly)

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 30394_ SAS No.: _____ SDG No.: ME00Q1

ICP ID Number: _____ Date: 02/21/02

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	253.70		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.: 30394_ SAS No.: _____ SDG No.: ME00Q1

ICP ID Number: _____ Date: 04/18/02

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	2.0	CA

Comments:

U.S. EPA - CLP

13
PREPARATION LOG

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.:_30394_ SAS No.: _____ SDG No.:ME00Q1

Method: P_

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
LCSS	04/19/02	1.00	200
ME00Q1	04/19/02	1.01	200
ME00Q2	04/19/02	1.05	200
ME00Q3	04/19/02	1.00	200
ME00Q3D	04/19/02	1.00	200
ME00Q3S	04/19/02	1.00	200
ME00Q4	04/19/02	1.00	200
ME00Q5	04/19/02	1.05	200
ME00Q6	04/19/02	1.05	200
ME00Q7	04/19/02	1.01	200
ME00Q8	04/19/02	1.00	200
ME00Q9	04/19/02	1.01	200
ME00R0	04/19/02	1.00	200
ME00R1	04/19/02	1.04	200
ME00R2	04/19/02	1.01	200
ME00R3	04/19/02	1.02	200
ME00R4	04/19/02	1.02	200
ME00R5	04/19/02	1.05	200
ME00R6	04/19/02	1.03	200
ME00R7	04/19/02	1.00	200
ME00R8	04/19/02	1.01	200
ME00R9	04/19/02	1.00	200
ME00S0	04/19/02	1.05	200
PBS	04/19/02	1.00	200

U.S. EPA - CLP

13
PREPARATION LOG

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.:_30394_ SAS No.: _____ SDG No.:ME00Q1

Method: CV

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
LCSS	04/23/02	0.20	100
ME00Q1	04/23/02	0.20	100
ME00Q2	04/23/02	0.20	100
ME00Q3	04/23/02	0.20	100
ME00Q3D	04/23/02	0.20	100
ME00Q3S	04/23/02	0.20	100
ME00Q4	04/23/02	0.21	100
ME00Q5	04/23/02	0.20	100
ME00Q6	04/23/02	0.23	100
ME00Q7	04/23/02	0.22	100
ME00Q8	04/23/02	0.20	100
ME00Q9	04/23/02	0.21	100
ME00R0	04/23/02	0.20	100
ME00R1	04/23/02	0.25	100
ME00R2	04/23/02	0.23	100
ME00R3	04/23/02	0.24	100
ME00R4	04/23/02	0.20	100
ME00R5	04/23/02	0.25	100
ME00R6	04/23/02	0.25	100
ME00R7	04/23/02	0.25	100
ME00R8	04/23/02	0.20	100
ME00R9	04/23/02	0.25	100
ME00S0	04/23/02	0.20	100
PBS	04/23/02	0.20	100

FORM XIII - IN ILM04.1

U.S. EPA - CLP

13

PREPARATION LOG

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.:_30394_ SAS No.: _____ SDG No.:ME00Q1

Method: CA

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
LCSS	04/18/02	1.00	50
ME00Q1	04/18/02	1.00	50
ME00Q2	04/18/02	1.05	50
ME00Q3	04/18/02	1.05	50
ME00Q3D	04/18/02	1.05	50
ME00Q3S	04/18/02	1.05	50
ME00Q4	04/18/02	1.00	50
ME00Q5	04/18/02	1.00	50
ME00Q6	04/18/02	1.00	50
ME00Q7	04/18/02	1.05	50
ME00Q8	04/18/02	1.05	50
ME00Q9	04/18/02	1.00	50
ME00R0	04/18/02	1.03	50
ME00R1	04/18/02	1.00	50
ME00R2	04/18/02	1.04	50
ME00R3	04/18/02	1.00	50
ME00R4	04/18/02	1.05	50
ME00R5	04/18/02	1.00	50
ME00R6	04/18/02	1.00	50
ME00R7	04/18/02	1.05	50
ME00R8	04/18/02	1.05	50
ME00R9	04/18/02	1.00	50
ME00S0	04/18/02	1.03	50
PBS	04/18/02	1.00	50

FORM XIII - IN ILM04.1

DATE: May 13, 2002

IEPA
1021 North Grand Avenue East
P.O. Box 19276
Springfield, IL 62794-9276

Attn: Bob Casper

SITE NAME: Chemetco

CASE NO.	LAB	NO. OF SAMPLES	SDG	MATRIX
30394	AATS	12	ME00S1	Soil

==========

Upon receipt of data, please check each package for completeness and note any missing deliverables below.

Send this form back to Sylvia Griffin, Data Management Coordinator after filling in the blanks below.

Data Received by:_____ Date:_____

PROBLEMS:

Please indicate if data is complete, and note if there are any deliverables missing from the cases noted above.

_____

_____

Received by Data Management Coordinator, CRL for file.
Date:_____

Signature:_____

RECEIVED
MAY 16 2002
IEPA-BOL-FSRS

FROM: U.S. EPA
Region V
Central Regional Laboratory
536 S. Clark, 10th Floor
Chicago, IL 60605

Sent By: Eva M. Dixon, Sr. Data Specialist
ESAT

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE: May 13, 2002

SUBJECT: Review of Data
Received for Review on May 9, 2002

FROM: Stephen L. Ostrodka, Chief (SMF-4J)
Superfund Field Services Section

TO: Data User: IEPA

The data in this case has not been validated.
We have compiled the CADRE files into a narrative format for the following case:

SITE NAME: Chemetco

CASE NUMBER: 30394 SDG NUMBER: ME00S1

Number and Type of Samples: 12 soils

Sample Numbers: ME00S1-9; ME00T0-2

Laboratory: AATS Hrs. for Review: 2

Following are our findings:

C: Cecilia Moore
Region 5 TPO
Mail Code: SM-5J

RECEIVED
MAY 16 2002
IEPA-ECL-FORS

Case Number : 30394
Site Name: Chemetco

SDG Number: ME00S1
Laboratory: AATS

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

NUMBER (##) MATRIX samples numbered ##, were collected on DATE. The lab received the samples on DATE in good condition. All samples were analyzed for metals and cyanide. All samples were analyzed using CLP SOW ILM04.1 analysis procedures.

Mercury analysis was performed using a Cold Vapor AA Technique. Cyanide analysis was performed using the MIDI Distillation procedure. The remaining inorganic analyses were performed using an Inductively Coupled Plasma-Atomic Emission Spectrometric procedure.

Assembled By: ESAT
Date: May 13, 2002

Case Number : 30394
Site Name: Chemetco

SDG Number: ME00S1
Laboratory: AATS

1. HOLDING TIME:

Holding Time Report

SDG NO: ME00S1

HOLDING TIME CRITERIA

Inorganic

	-- Holding Time --		------- pH -------	
	Primary	Expanded	Primary	Expanded
Metals	180	0	2.0	0.0
Mercury	28	0	2.0	0.0
Cyanide	14	0	12.0	0.0

DC-280: The following inorganic soil samples were reviewed for holding time violations using criteria developed for water samples.

ME00S1, ME00S2, ME00S3, ME00S4, ME00S5, ME00S6
ME00S7, ME00S8, ME00S9, ME00T0, ME00T1, ME00T2
ME00T2D, ME00T2S

2. CALIBRATIONS:

Calibration Report

SDG NO: ME00S1

CALIBRATION CRITERIA

Inorganic

Percent Recovery Limits

	--- Primary ---		-- Expanded ---	
	Low	High	Low	High
Cyanide	85.00	115.00	70.00	130.00
AA	90.00	110.00	75.00	125.00
ICP	90.00	110.00	75.00	125.00
Mercury	80.00	120.00	65.00	135.00

No problems found for this qualification.

CRDL Standards Report

Assembled By: ESAT
Date: May 13, 2002

Case Number : 30394
Site Name: Chemetco

SDG Number: ME00S1
Laboratory: AATS

SDG NO: ME00S1

DC-373: The following inorganic samples are associated with a CRDL standard with low percent recovery.

Selenium
ME00S1, ME00S2, ME00S3, ME00S4, ME00S5, ME00S6
ME00S7, ME00S8, ME00S9, ME00T0, ME00T1, ME00T2

Thallium
ME00T2

DC-374: The following inorganic samples are associated with a CRDL standard with high percent recovery.
Hits and non-detects are flagged .

Arsenic
ME00S1, ME00S2, ME00S3, ME00S4, ME00S5, ME00S6
ME00S7, ME00S8, ME00S9, ME00T0, ME00T1, ME00T2

Beryllium
ME00S1, ME00S2, ME00S3, ME00S4, ME00S5, ME00S6
ME00S7, ME00S9, ME00T0, ME00T1, ME00T2, PBS03

Cobalt
ME00S1, ME00S2, ME00S3, ME00S4, ME00S5, ME00S6
ME00S7, ME00S9, ME00T0, ME00T1, ME00T2, PBS03

Copper
ME00S1, ME00S2, ME00S3, ME00S4, ME00S5, ME00S6
ME00S7, ME00S8, ME00S9, ME00T0, ME00T1, ME00T2
PBS04

Lead
ME00S1, ME00S2, ME00S3, ME00S4, ME00S5, ME00S6
ME00S7, ME00S8, ME00S9, ME00T0, ME00T1, ME00T2
PBS03

Manganese
ME00S1, ME00S2, ME00S3, ME00S4, ME00S5, ME00S6
ME00S7, ME00S9, ME00T0, ME00T1, ME00T2, PBS03

Nickel
ME00S1, ME00S2, ME00S3, ME00S4, ME00S5, ME00S6
ME00S7, ME00S9, ME00T0, ME00T1, ME00T2, PBS03

Selenium
ME00T2

Thallium
ME00S1, ME00S2, ME00S3, ME00S4, ME00S5, ME00S6
ME00S7, ME00S9, ME00T0, ME00T1, ME00T2, PBS03

Zinc
ME00S1, ME00S2, ME00S3, ME00S4, ME00S5, ME00S6
ME00S7, ME00S8, ME00S9, ME00T0, ME00T1, ME00T2
PBS03

3. **BLANKS:**

Assembled By: ESAT
Date: May 13, 2002

Case Number : 30394
Site Name: Chemetco

SDG Number: ME00S1
Laboratory: AATS

Laboratory Blanks Report

SDG NO: ME00S1

LABORATORY BLANKS CRITERIA

DC-284: The following inorganic samples are associated with a blank concentration which is greater than the instrument detection limit (IDL). The sample concentration is also greater than the IDL and less than five times the blank concentration. Hits are qualified "J"; non-detects are not flagged.

Antimony
ME00S8, ME00T2A

Copper
ME00S9

Zinc
ME00S9

Cyanide
ME00S1, ME00S3, ME00S8

DC-338: During review of the following inorganic samples, the reported IDL/default CRDL value was used for cyanide.

ME00S1, ME00S2, ME00S3, ME00S4, ME00S5, ME00S6
ME00S7, ME00S8, ME00S9, ME00T0, ME00T1, ME00T2
ME00T2D, ME00T2S

4. MATRIX SPIKE/MATRIX SPIKE DUPLICATE AND LAB CONTROL SAMPLE:

Matrix Spike Report

SDG NO: ME00S1

MATRIX SPIKE CRITERIA

Inorganic

Percent Recovery Limits

Upper	125.0
Lower	75.0
Extreme Lower	30.0

DC-266: The following inorganic samples are associated with a matrix spike recovery which was not within criteria and the required post digestion spike analysis was not performed. Hits and non-detects are not flagged. However, the information must be included in the IRDA report.

Assembled By: ESAT
Date: May 13, 2002

se Number : 30394
te Name: Chemetco

SDG Number: ME00S1
Laboratory: AATS

Cyanide
ME00S1, ME00S2, ME00S3, ME00S4, ME00S5, ME00S6
ME00S7, ME00S8, ME00S9, ME00T0, ME00T1, ME00T2
ME00T2D

DC-267: The following inorganic samples are associated with a matrix spike recovery which is high (>125%)
Hits are qualified "J" and non-detects are not flagged.

Beryllium
ME00S1, ME00S2, ME00S3, ME00S4, ME00S5, ME00S6
ME00S7, ME00S8, ME00S9, ME00T0, ME00T1, ME00T2
ME00T2A, ME00T2D

Selenium
ME00S1, ME00S3, ME00S8, ME00S9, ME00T0, ME00T2
ME00T2A, ME00T2D

DC-268: The following inorganic samples are associated with a matrix spike recovery which is low (30-74 %) indicating that sample results may be biased low.
Hits are qualified "J" and non-detects are qualified "UJ".

Arsenic
ME00S1, ME00S2, ME00S3, ME00S4, ME00S5, ME00S6
ME00S7, ME00S8, ME00S9, ME00T0, ME00T1, ME00T2
ME00T2A, ME00T2D

Cadmium
ME00S1, ME00S2, ME00S3, ME00S4, ME00S5, ME00S6
ME00S7, ME00S8, ME00S9, ME00T0, ME00T1, ME00T2
ME00T2A, ME00T2D

Silver
ME00S1, ME00S2, ME00S3, ME00S4, ME00S5, ME00S6
ME00S7, ME00S8, ME00S9, ME00T0, ME00T1, ME00T2
ME00T2D

Cyanide
ME00S1, ME00S2, ME00S3, ME00S4, ME00S5, ME00S6
ME00S7, ME00S8, ME00S9, ME00T0, ME00T1, ME00T2
ME00T2D

DC-269: The following inorganic samples are associated with a matrix spike recovery which is extremely low (<30 %) indicating that sa mple results may be biased low.
Hits are qualified "J" and non-detects are qualified "R".

Antimony
ME00S1, ME00S2, ME00S3, ME00S4, ME00S5, ME00S6
ME00S7, ME00S8, ME00S9, ME00T0, ME00T1, ME00T2
ME00T2A, ME00T2D

LCS Report

SDG NO: ME00S1

No problems found for this qualification.

Assembled By: ESAT
Date: May 13, 2002

Case Number : 30394
Site Name: Chemetco

SDG Number: ME00S1
Laboratory: AATS

5. LABORATORY AND FIELD DUPLICATE

Duplicates Report

SDG NO: ME00S1

DC-257: The following inorganic samples are not qualified for duplicates due to missing information.
Manual review of the data is required.

Lead
ME00S2

6. ICP ANALYSIS

ICS Report

SDG NO: ME00S1

DC-310: The following inorganic samples are associated with an ICS analyte with low percent recovery (50-79%) .
Interferant concentration in the sample is comparable to that in the ICS. Hits are qualified "J" and non-detects are qualified "UJ".

Arsenic
ME00S1

DC-312: The following inorganic samples have elements other than Al, Ca, Fe, and Mg at concentrations higher than 10 ppm that may cause potential interference.
Hits are flagged "J" and non-detects are qualified "UJ".

Copper
ME00S3, ME00S4, ME00S5, ME00S6, ME00S7, ME00T0
ME00T1, ME00T2

Lead
ME00S1, ME00S3, ME00S6, ME00S7, ME00T0, ME00T1
ME00T2

Manganese
ME00S4, ME00S5, ME00S6, ME00S7, ME00T1

Nickel
ME00S9, ME00T0

Sodium
ME00S3, ME00S4, ME00S5, ME00S6, ME00S7, ME00S9
ME00T0, ME00T1, ME00T2

Assembled By: ESAT
Date: May 13, 2002

Case Number : 30394
Site Name: Chemetco

SDG Number: ME00S1
Laboratory: AATS

Serial Dilution Report

SDG NO: ME00S1

No problems found for this qualification.

7. GFAA ANALYSIS

Furnace AA QC Report

SDG NO: ME00S1

No problems found for this qualification.

8. SAMPLE RESULTS

All data, except those qualified above, are acceptable.

Sample Result Verification Report

SDG NO: ME00S1

DC-836: The following inorganic samples have ICP determined results (for analytes usually determined by furnace AA) whose concentrations are below criteria. Professional judgement should be used to qualify the data.

Lead
ME00S2

Assembled By: ESAT
Date: May 13, 2002

CADRE Data Qualifier Sheet

Qualifiers	Data Qualifier Definitions
U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J	The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the action limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
R	The data are unusable. (The compound may or may not be present)

Analytical Results (Qualified Data)

Case #: 30394 SDG : ME00S1

Site : CHEMECTO

Lab. : AATS

Reviewer

Date :

Number of Soil Samples : 12

Number of Water Samples : 0

Sample Number :	ME00S1		ME00S2		ME00S3		ME00S4		ME00S5	
Sampling Location :	X513		X514		X515		X501		X502	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Date Sampled :	04/16/2002		04/16/2002		04/16/2002		04/16/2002		04/16/2002	
Time Sampled :	11:50		11:30		11:40		12:50		12:50	
%Solids :	96.0		86.3		93.6		98.6		98.4	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	8410		5760		16900		16100		14900	
ANTIMONY	0.99	R	38.6	J	1.1	R	1.0	R	1.0	R
ARSENIC	14.0	J	14.4	J	7.1	J	2.7	J	2.2	J
BARIUM	539		439		395		983		906	
BERYLLIUM	18.9	J	11.8	J	38.9	J	57.3	J	54.1	J
CADMIUM	63.6	J	134	J	63.9	J	62.7	J	66.1	J
CALCIUM	59500		50700		51700		11300		10600	
CHROMIUM	57.4		36.3		85.6		122		99.6	
COBALT	42.1		37.6		84.1		200		186	
COPPER	28500		31800		6740	J	8610	J	6160	J
IRON	74900		51000		140000		273000		256000	
LEAD	6220	J		M	11400	J	16300		15400	
MAGNESIUM	4850		5850		10500		4630		3570	
MANGANESE	1010		790		2140		2880	J	2740	J
MERCURY	0.43		0.29		0.13		0.050	U	0.050	U
NICKEL	693		298		793		846		690	
POTASSIUM	1080		797		1610		1280		1270	
SELENIUM	1.5	J	1.1	U	1.4	J	1.0	U	1.0	U
SILVER	3.2	J	20.8	J	0.21	UJ	0.20	UJ	0.20	UJ
SODIUM	1660		1430		2180	J	7060	J	6970	J
THALLIUM	2.4		1.7		5.4		8.7		7.1	
VANADIUM	14.2		13.5		33.1		12.5		10.7	
ZINC	26400		26800		34500		78500		72900	
CYANIDE	0.49	J	0.87	J	0.52	J	0.10	UJ	0.10	UJ

DISCLAIMER: This package has been electronically assessed as an added service to our customer. It has not been either validated or approved by Region 5 and any subsequent use by the data user is strictly at the risk of the data user. Region 5 assumes no responsibility for use of unvalidated data.

Analytical Results (Qualified Data)

Case #: 30394 SDG : ME00S1
Site : CHEMECTO
Lab. : AATS
Reviewer :
Date :

Sample Number :	ME00S6		ME00S7		ME00S8		ME00S9		ME00T0	
Sampling Location :	X503		X504		X505		X506		X507	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Date Sampled :	04/16/2002		04/16/2002		04/16/2002		04/16/2002		04/16/2002	
Time Sampled :	12:40		13:00		13:20		13:30		13:40	
%Solids :	96.5		99.5		92.6		48.3		99.5	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	15600		16500		8920		9040		3300	
ANTIMONY	0.99	R	0.96	R	4.6	J	578	J	1450	J
ARSENIC	1.6	J	0.77	UJ	188	J	242	J	110	J
BARIUM	905		1040		777		993		403	
BERYLLIUM	90.9	J	110	J	39.0	J	25.2	J	5.0	J
CADMIUM	7.9	J	3.8	J	793	J	2970	J	180	J
CALCIUM	9440		9430		15700		16500		4440	
CHROMIUM	170		188		54.5		64.8		27.6	
COBALT	203		142		70.1		45.0		31.4	
COPPER	5900	J	3870	J	27900		97700	J	192000	J
IRON	264000		247000		68900		22000		31900	
LEAD	9810	J	7800	J	29400		152000		116000	J
MAGNESIUM	3660		3540		4780		2600		1010	
MANGANESE	2330	J	2490	J	1480		821		466	
MERCURY	0.050	U	0.050	U	2.7		26.6		0.35	
NICKEL	609		410		966		5000	J	5820	J
POTASSIUM	1120		1130		863		548		310	
SELENIUM	0.99	U	0.96	U	12.8	J	32.6	J	3.4	J
SILVER	0.20	UJ	0.19	UJ	17.7	J	62.1	J	49.5	J
SODIUM	6660	J	5830	J	1200		8880	J	2950	J
THALLIUM	10.5		11.9		1.1	U	3.8		0.96	U
VANADIUM	13.2		15.1		18.7		15.0		2.4	
ZINC	73100		71000		79100		217000	J	17200	
CYANIDE	0.10	UJ	0.10	UJ	0.24	J	0.21	UJ	1.3	J

DISCLAIMER This package has been electronically assessed as an added service to our customer. It has not been either validated or approved by Region 5 and any subsequent use by the data user is strictly at the risk of the data user. Region 5 assumes no responsibility for use of unvalidated data.

Analytical Results (Qualified Data)

Case #: 30394 SDG : ME00S1
Site : CHEMECTO
Lab. : AATS
Reviewer :
Date

Sample Number :	ME00T1		ME00T2		ME00T2D		ME00T2S			
Sampling Location :	X508		X509		X509		X509			
Matrix :	Soil		Soil		Soil		Soil			
Units :	mg/Kg		mg/Kg		mg/Kg		mg/Kg			
Date Sampled :	04/16/2002		04/16/2002		04/16/2002		04/16/2002			
Time Sampled :	13:50		13:55		13:55		13:55			
%Solids :	98.7		93.7		93.7		93.7			
Dilution Factor :	1.0		1.0		1.0		1.0			
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	9090		5110		5830					
ANTIMONY	0.99	R	1.1	R	1.1	R	27.2			
ARSENIC	4.6	J	6.9	J	6.7	J	12.9			
BARIUM	403		390		386		759			
BERYLLIUM	60.4	J	33.1	J	35.2	J	50.2			
CADMIUM	18.6	J	23.4	J	25.8	J	30.4			
CALCIUM	13400		11700		13500					
CHROMIUM	136		62.1		62.2		108			
COBALT	132		116		130		220			
COPPER	5450	J	6630	J	6430		7250			
IRON	196000		152000		186000					
LEAD	6790	J	7940	J	9650		8360			
MAGNESIUM	6550		4220		5280					
MANGANESE	2140	J	1960		2120		2170			
MERCURY	0.060		0.11		0.11		0.55			
NICKEL	451		587		580		685			
POTASSIUM	787		955		1070					
SELENIUM	0.99	U	2.3	J	3.0	J	5.8			
SILVER	0.20	UJ	0.21	UJ	0.30	J	5.3			
SODIUM	3030	J	2390	J	2730					
THALLIUM	11.2		13.5		14.0		22.9			
VANADIUM	9.0		4.0		4.6		103			
ZINC	62000		63200		76800		65800			
CYANIDE	0.10	UJ	0.11	UJ	0.11	UJ	3.9			

DISCLAIMER: This package has been electronically assessed as an added service to our customer. It has not been either validated or approved by Region 5 and any subsequent use by the data user is strictly at the risk of the data user. Region 5 assumes no responsibility for use of unvalidated data.

USEPA Contract Laboratory Program
Inorganic Traffic Report

Case No: 30394
DAS No:
SDG No: ME0051

L

Date Shipped: 4/16/02 Carrier Name: UPS Airbill: 1Z62158922100202 62 Shipped to: American Analytical & Technical Services, Inc. 1700 West Albany Suite C Broken Arrow OK 74012 (918) 251-0545	Date Received/Received by: 4/17/02 Lab Contract No: 6 Sa 1056 Unit Price: 116.75 Transfer To: Date Received/Received By: Lab Contract No: Price:	Sampler (Signature): Bruce Everetts Relinquished By: Bruce Everetts Relinquished By: Relinquished By:	Date / Time: 4-16-02/1500 Date / Time: 4-17-02 9:30 Date / Time:
			Received By: Received By: Received By:

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE	STATION LOCATION	SAMPLE COLLECT DATE/TIME	ORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
ME00R6	Sediment/ Bruce Everetts	L/G	TM/CN (21)	5-100800 (Ice Only) (1)	X209	4/15/02 15:20		
ME00R7	Sediment/ Bruce Everetts	L/G	TM/CN (21)	5-100801 (Ice Only) (1)	X210	4/15/02 15:00		
ME00R8	Soil/ Bruce Everetts	L/G	TM/CN (21)	5-100802 (Ice Only) (1)	X101	4/16/02 11:00		
ME00R9	Waste/ Bruce Everetts	L/G	TM/CN (21)	5-100803 (Ice Only) (1)	X511	4/16/02 12:00		
ME00S0	Waste/ Bruce Everetts	L/G	TM/CN (21)	5-100804 (Ice Only) (1)	X512	4/16/02 12:10		
ME00S1	Waste/ Bruce Everetts	L/G	TM/CN (21)	5-100805 (Ice Only) (1)	X513	4/16/02 11:50		
ME00S2	Waste/ Bruce Everetts	L/G	TM/CN (21)	5-100806 (Ice Only) (1)	X514	4/16/02 11:30		
ME00S3	Waste/ Bruce Everetts	L/G	TM/CN (21)	5-100807 (Ice Only) (1)	X515	4/16/02 11:40		
ME00S4	Waste/ Bruce Everetts	L/G	TM/CN (21)	5-100982 (Ice Only) (1)	X501	4/16/02 12:50		
ME00S5	Waste/ Bruce Everetts	L/G	TM/CN (21)	5-100983 (Ice Only) (1)	X502	4/16/02 12:50		
ME00S6	Waste/ Bruce Everetts	L/G	TM/CN (21)	5-100984 (Ice Only) (1)	X503	4/16/02 12:40		
ME00S7	Waste/ Bruce Everetts	L/G	TM/CN (21)	5-100985 (Ice Only) (1)	X504	4/16/02 13:00		
ME00S8	Waste/ Bruce Everetts	L/G	TM/CN (21)	5-100986 (Ice Only) (1)	X505	4/16/02 13:20		
ME00S9	Waste/ Bruce Everetts	L/G	TM/CN (21)	5-100987 (Ice Only) (1)	X506	4/16/02 13:30		
ME00T0	Waste/ Bruce Everetts	L/G	TM/CN (21)	5-100988 (Ice Only) (1)	X507	4/16/02 13:40		

COPY

ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF
SDG ME0051
Signature
Date 4/19/02

Shipment for Case Complete? Y	Sample(s) to be used for laboratory QC: ME 00 Q3	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 4.3 c	Chain of Custody Seal Number: 8143
Analysis Key: TM/CN = CLP TAL Total Metals and Cyanide	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? Y / Shipment Iced? Y

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy Contract Laboratory Analytical Services Support, 2000 Edmund Halley Dr., Reston 20191-3436 Phone 703/264-9348 Fax 703/264-9222

TR Number: 5-055166947-041602-0002

411

USEPA Contract Laboratory Program
Inorganic Traffic Report

Case No:	30394
DAS No:	
SDG No:	ME0051

L

Date Shipped: 4/16/02	Date Received/Received by: 4/18/02	Sampler (Signature): Bruce Everetts	
Carrier Name: UPS	Lab Contract No: 68W0056 Unit Price: 116.15	Relinquished By: Bruce Everetts	Date / Time: 4-16-02 1500 / Received By:
Airbill: 1Z6215892210020262	Transfer To:	Relinquished By:	Date / Time: 4/17/02 9:30 / Received By:
Shipped to: American Analytical & Technical Services, Inc. 1700 West Albany Suite C Broken Arrow OK 74012 (918) 251-0545	Date Received/Received By:	Relinquished By:	Date / Time: / Received By:
	Lab Contract No: Price:		

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE	STATION LOCATION	SAMPLE COLLECT DATE/TIME	ORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
ME00T1	Waste/ Bruce Everetts	L/G	TM/CN (21)	5-100989 (Ice Only) (1)	X508	4/16/02 13:50		
ME00T2	Waste/ Bruce Everetts	L/G	TM/CN (21)	5-100990 (Ice Only) (1)	X509	4/16/02 13:55		

Shipment for Case Complete? Y	Sample(s) to be used for laboratory QC: ME00Q3	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 4.3°C	Chain of Custody Seal Number: 8143P
Analysis Key: TM/CN = CLP TAL Total Metals and Cyanide	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? Y / Shipment Iced? Y

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

Send Copy to: Contract Laboratory Analytical Services Support, 2000 Edmund Halley Dr., Reston, VA. 20191-3436 Phone 703/264-9348 Fax 703/264-9222

TR Number: 5-055166947-041602-0002

412

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: 30394
SDG: ME00S1

DATE: 05/06/02
SOW NO.: ILM04.1
EPISODE NO.: 49374

MAY 0 9 2002

INORGANIC METAL FRACTION:

Twelve soil samples were submitted for ICP, CN and Hg analysis. No major problems occurred during the digestion or analyses of these samples. The cooler temperatures at time of receipt were at 4.3 ° Celsius. The cooler temperature indicator bottle was present. Sample tags were present The samples for this SDG were designated as waste matrix on the traffic report. Per the region the samples were logged in as soils. No QC was designated by the sampler. See attached email for correspondence with Dyncorp. 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, Sb, Be, Cu, Pb, Mg, Zn, Cn.
No action required.

Linearity near the CRDL (CRA & CRI): The CRI standard was outside of our in house warning limits of 70-130%R for the following elements: Pb, Se, Zn. No action required.

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

Lab Control Spikes: No problems.

Matrix Spikes: The following elements were outside the control limits of 75-125% recovery: Sb, As, Be, Cd, Se, Ag. All associated samples were flagged with a "N" on Form I's. No action required.

Duplicate(s): The following elements were outside the control limits of 0-20% RPD: Mg. All associated samples were flagged with a "*" on Form I's. No action required.

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

Serial Dilution (ICP): The soil serial dilution was outside the control limits of 10% for the following elements: None. No action required.

Sincerely,

Steve Markham
Operations Manager

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COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 30394 SAS No.: _____ SDG No.:ME00S1

SOW No.: ILM04.01 5/2/02

EPA Sample No.	Lab Sample ID
ME00S1	49374.01
ME00S2	49374.02
ME00S3	49374.03
ME00S4	49374.04
ME00S5	49374.05
ME00S6	49374.06
ME00S7	49374.07
ME00S8	49374.08
ME00S9	49374.09
ME00T0	49374.10
ME00T1	49374.11
ME00T2	49374.12
ME00T2D	49374.13D
ME00T2S	49374.14S

MAY 09 2002

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: Steve L. Markham Name: Steve L. Markham

Date: 05/06/02 Title: Operations Manager

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

ME00S1

ab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

ab Code: AATS__ Case No.: 30394_ SAS No.: _____ SDG No.: ME00S1

atrix (soil/water): SOIL_ Lab Sample ID: 49374.01

evel (low/med): LOW__ Date Received: 04/17/02

Solids: _96.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	8410			P
7440-36-0	Antimony_	0.99	U	N	P
7440-38-2	Arsenic__	14.0		N	P
7440-39-3	Barium___	539			P
7440-41-7	Beryllium	18.9		N	P
7440-43-9	Cadmium__	63.6		N	P
7440-70-2	Calcium__	59500			P
7440-47-3	Chromium_	57.4			P
7440-48-4	Cobalt___	42.1			P
7440-50-8	Copper___	28500			P
7439-89-6	Iron____	74900			P
7439-92-1	Lead____	6220			P
7439-95-4	Magnesium	4850		*	P
7439-96-5	Manganese	1010			P
7439-97-6	Mercury__	0.43			CV
7440-02-0	Nickel___	693			P
7440-09-7	Potassium	1080			P
7782-49-2	Selenium_	1.5		N	P
7440-22-4	Silver___	3.2		N	P
7440-23-5	Sodium___	1660			P
7440-28-0	Thallium_	2.4			P
7440-62-2	Vanadium_	14.2			P
7440-66-6	Zinc____	26400			P
	Cyanide__	0.49	B		CA

olor Before: BROWN____ Clarity Before: _____ Texture: MEDIUM

olor After: YELLOW___ Clarity After: CLEAR_ Artifacts: _____

omments:

FORM I - IN ILM04.1

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

ME00S2

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 30394_ SAS No.: _____ SDG No.: ME00S1

Matrix (soil/water): SOIL_ Lab Sample ID: 49374.02

Level (low/med): LOW__ Date Received: 04/17/02

% Solids: _86.3

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	5760			P
7440-36-0	Antimony	38.6		N	P
7440-38-2	Arsenic	14.4		N	P
7440-39-3	Barium	439			P
7440-41-7	Beryllium	11.8		N	P
7440-43-9	Cadmium	134		N	P
7440-70-2	Calcium	50700			P
7440-47-3	Chromium	36.3			P
7440-48-4	Cobalt	37.6			P
7440-50-8	Copper	31800			P
7439-89-6	Iron	51000			P
7439-92-1	Lead	20700			P
7439-95-4	Magnesium	5850		*	P
7439-96-5	Manganese	790			P
7439-97-6	Mercury	0.29			CV
7440-02-0	Nickel	298			P
7440-09-7	Potassium	797	B		P
7782-49-2	Selenium	1.1	U	N	P
7440-22-4	Silver	20.8		N	P
7440-23-5	Sodium	1430			P
7440-28-0	Thallium	1.7	B		P
7440-62-2	Vanadium	13.5			P
7440-66-6	Zinc	26800			P
	Cyanide	0.87			CA

Color Before: BROWN____ Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW___ Clarity After: CLEAR_ Artifacts: _____

Comments:

FORM I - IN ILM04.1

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

ME00S3

b Na... : AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

b Code: AATS__ Case No.: 30394_ SAS No.: _____ SDG No.: ME00S1

atrix (soil/water): SOIL_ Lab Sample ID: 49374.03

evel (low/med): LOW__ Date Received: 04/17/02

Solids: _93.6

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	16900			P
7440-36-0	Antimony	1.1	U	N	P
7440-38-2	Arsenic	7.1		N	P
7440-39-3	Barium	395			P
7440-41-7	Beryllium	38.9		N	P
7440-43-9	Cadmium	63.9		N	P
7440-70-2	Calcium	51700			P
7440-47-3	Chromium	85.6			P
7440-48-4	Cobalt	84.1			P
7440-50-8	Copper	6740			P
7439-89-6	Iron	140000			P
7439-92-1	Lead	11400			P
7439-95-4	Magnesium	10500		*	P
7439-96-5	Manganese	2140			P
7439-97-6	Mercury	0.13			CV
7440-02-0	Nickel	793			P
7440-09-7	Potassium	1610			P
7782-49-2	Selenium	1.4		N	P
7440-22-4	Silver	0.21	U	N	P
7440-23-5	Sodium	2180			P
7440-28-0	Thallium	5.4			P
7440-62-2	Vanadium	33.1			P
7440-66-6	Zinc	34500			P
	Cyanide	0.52	B		CA

Color Before: BROWN____ Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW___ Clarity After: CLEAR_ Artifacts: _____

Comments:

FORM I - IN ILM04.1

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1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

ME00S4

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 30394_ SAS No.: _____ SDG No.: ME00S1

Matrix (soil/water): SOIL_ Lab Sample ID: 49374.04

Level (low/med): LOW__ Date Received: 04/17/02

% Solids: _98.6

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	16100			P
7440-36-0	Antimony_	1.0	U	N	P
7440-38-2	Arsenic__	2.7		N	P
7440-39-3	Barium___	983			P
7440-41-7	Beryllium	57.3		N	P
7440-43-9	Cadmium__	62.7		N	P
7440-70-2	Calcium__	11300			P
7440-47-3	Chromium_	122			P
7440-48-4	Cobalt___	200			P
7440-50-8	Copper___	8610			P
7439-89-6	Iron_____	273000			P
7439-92-1	Lead_____	16300			P
7439-95-4	Magnesium	4630		*	P
7439-96-5	Manganese	2880			P
7439-97-6	Mercury__	0.05	U		CV
7440-02-0	Nickel___	846			P
7440-09-7	Potassium	1280			P
7782-49-2	Selenium_	1.0	U	N	P
7440-22-4	Silver___	0.20	U	N	P
7440-23-5	Sodium___	7060			P
7440-28-0	Thallium_	8.7			P
7440-62-2	Vanadium_	12.5			P
7440-66-6	Zinc_____	78500			P
_____	Cyanide__	0.10	U		CA

Color Before: BROWN____ Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW___ Clarity After: CLEAR_ Artifacts: _____

Comments:

FORM I - IN ILM04.1

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

ME00S5

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 30394_ SAS No.: _____ SDG No.: ME00S1

Matrix (soil/water): SOIL_ Lab Sample ID: 49374.05

Level (low/med): LOW__ Date Received: 04/17/02

% Solids: _98.4

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	14900			P
7440-36-0	Antimony	1.0	U	N	P
7440-38-2	Arsenic	2.2		N	P
7440-39-3	Barium	906			P
7440-41-7	Beryllium	54.1		N	P
7440-43-9	Cadmium	66.1		N	P
7440-70-2	Calcium	10600			P
7440-47-3	Chromium	99.6			P
7440-48-4	Cobalt	186			P
7440-50-8	Copper	6160			P
7439-89-6	Iron	256000			P
7439-92-1	Lead	15400			P
7439-95-4	Magnesium	3570		*	P
7439-96-5	Manganese	2740			P
7439-97-6	Mercury	0.05	U		CV
7440-02-0	Nickel	690			P
7440-09-7	Potassium	1270			P
7782-49-2	Selenium	1.0	U	N	P
7440-22-4	Silver	0.20	U	N	P
7440-23-5	Sodium	6970			P
7440-28-0	Thallium	7.1			P
7440-62-2	Vanadium	10.7			P
7440-66-6	Zinc	72900			P
	Cyanide	0.10	U		CA

Color Before: BROWN____ Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW___ Clarity After: CLEAR_ Artifacts: _____

Comments:

FORM I - IN ILM04.1

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1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

ME00S6

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 30394_ SAS No.: _____ SDG No.: ME00S1

Matrix (soil/water): SOIL_ Lab Sample ID: 49374.06

Level (low/med): LOW__ Date Received: 04/17/02

% Solids: _96.5

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	15600	_		P_
7440-36-0	Antimony_	0.99	U	N	P_
7440-38-2	Arsenic__	1.6	B	N	P_
7440-39-3	Barium__	905	_		P_
7440-41-7	Beryllium	90.9	_	N	P_
7440-43-9	Cadmium__	7.9	_	N	P_
7440-70-2	Calcium__	9440	_		P_
7440-47-3	Chromium_	170	_		P_
7440-48-4	Cobalt___	203	_		P_
7440-50-8	Copper___	5900	_		P_
7439-89-6	Iron____	264000	_		P_
7439-92-1	Lead____	9810	_		P_
7439-95-4	Magnesium	3660	_	*	P_
7439-96-5	Manganese	2330	_		P_
7439-97-6	Mercury__	0.05	U		CV
7440-02-0	Nickel___	609	_		P_
7440-09-7	Potassium	1120	_		P_
7782-49-2	Selenium_	0.99	U	N	P_
7440-22-4	Silver___	0.20	U	N	P_
7440-23-5	Sodium___	6660	_		P_
7440-28-0	Thallium_	10.5	_		P_
7440-62-2	Vanadium_	13.2	_		P_
7440-66-6	Zinc____	73100	_		P_
	Cyanide__	0.10	U		CA

Color Before: BROWN____ Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW___ Clarity After: CLEAR_ Artifacts: _____

Comments:

FORM I - IN ILM04.1

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

ME00S7

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 30394_ SAS No.: _____ SDG No.: ME00S1

Matrix (soil/water): SOIL_ Lab Sample ID: 49374.07

Level (low/med): LOW__ Date Received: 04/17/02

% Solids: _99.5

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	16500			P
7440-36-0	Antimony_	0.96	U	N	P
7440-38-2	Arsenic__	0.77	U	N	P
7440-39-3	Barium___	1040			P
7440-41-7	Beryllium	110		N	P
7440-43-9	Cadmium__	3.8		N	P
7440-70-2	Calcium__	9430			P
7440-47-3	Chromium_	188			P
7440-48-4	Cobalt___	142			P
7440-50-8	Copper___	3870			P
7439-89-6	Iron_____	247000			P
7439-92-1	Lead_____	7800			P
7439-95-4	Magnesium	3540		*	P
7439-96-5	Manganese	2490			P
7439-97-6	Mercury__	0.05	U		CV
7440-02-0	Nickel___	410			P
7440-09-7	Potassium	1130			P
7782-49-2	Selenium_	0.96	U	N	P
7440-22-4	Silver___	0.19	U	N	P
7440-23-5	Sodium___	5830			P
7440-28-0	Thallium_	11.9			P
7440-62-2	Vanadium_	15.1			P
7440-66-6	Zinc_____	71000			P
	Cyanide__	0.10	U		CA

Color Before: BROWN____ Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW___ Clarity After: CLEAR_ Artifacts: _____

Comments:

FORM I - IN ILM04.1

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

ME00S8

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 30394_ SAS No.: _____ SDG No.: ME00S1

Matrix (soil/water): SOIL_ Lab Sample ID: 49374.08

Level (low/med): LOW__ Date Received: 04/17/02

% 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_	8920			P
7440-36-0	Antimony_	4.6	B	N	P
7440-38-2	Arsenic__	188		N	P
7440-39-3	Barium___	777			P
7440-41-7	Beryllium	39.0		N	P
7440-43-9	Cadmium__	793		N	P
7440-70-2	Calcium__	15700			P
7440-47-3	Chromium_	54.5			P
7440-48-4	Cobalt___	70.1			P
7440-50-8	Copper___	27900			P
7439-89-6	Iron_____	68900			P
7439-92-1	Lead_____	29400			P
7439-95-4	Magnesium	4780		*	P
7439-96-5	Manganese	1480			P
7439-97-6	Mercury__	2.7			CV
7440-02-0	Nickel___	966			P
7440-09-7	Potassium	863	B		P
7782-49-2	Selenium_	12.8		N	P
7440-22-4	Silver___	17.7		N	P
7440-23-5	Sodium___	1200			P
7440-28-0	Thallium_	1.1	U		P
7440-62-2	Vanadium_	18.7			P
7440-66-6	Zinc_____	79100			P
	Cyanide__	0.24	B		CA

Color Before: BROWN____ Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW___ Clarity After: CLEAR_ Artifacts: _____

Comments:

FORM I - IN ILM04.1

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

ME00S9

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 30394_ SAS No.: _____ SDG No.: ME00S1

Matrix (soil/water): SOIL_ Lab Sample ID: 49374.09

Level (low/med): LOW__ Date Received: 04/17/02

% Solids: _48.3

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	9040			P
7440-36-0	Antimony	578		N	P
7440-38-2	Arsenic	242		N	P
7440-39-3	Barium	993			P
7440-41-7	Beryllium	25.2		N	P
7440-43-9	Cadmium	2970		N	P
7440-70-2	Calcium	16500			P
7440-47-3	Chromium	64.8			P
7440-48-4	Cobalt	45.0			P
7440-50-8	Copper	97700			P
7439-89-6	Iron	22000			P
7439-92-1	Lead	152000			P
7439-95-4	Magnesium	2600		*	P
7439-96-5	Manganese	821			P
7439-97-6	Mercury	26.6			CV
7440-02-0	Nickel	5000			P
7440-09-7	Potassium	548	B		P
7782-49-2	Selenium	32.6		N	P
7440-22-4	Silver	62.1		N	P
7440-23-5	Sodium	8880			P
7440-28-0	Thallium	3.8	B		P
7440-62-2	Vanadium	15.0	B		P
7440-66-6	Zinc	217000			P
	Cyanide	0.21	U		CA

Color Before: BROWN____ Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW___ Clarity After: CLEAR_ Artifacts: _____

Comments:

FORM I - IN ILM04.1

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

ME00T0

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 30394_ SAS No.: _____ SDG No.: ME00S1

Matrix (soil/water): SOIL_ Lab Sample ID: 49374.10

Level (low/med): LOW__ Date Received: 04/17/02

% Solids: _99.5

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	3300			P
7440-36-0	Antimony_	1450		N	P
7440-38-2	Arsenic__	110		N	P
7440-39-3	Barium___	403			P
7440-41-7	Beryllium	5.0		N	P
7440-43-9	Cadmium__	180		N	P
7440-70-2	Calcium__	4440			P
7440-47-3	Chromium_	27.6			P
7440-48-4	Cobalt___	31.4			P
7440-50-8	Copper___	192000			P
7439-89-6	Iron_____	31900			P
7439-92-1	Lead_____	116000			P
7439-95-4	Magnesium	1010		*	P
7439-96-5	Manganese	466			P
7439-97-6	Mercury__	0.35			CV
7440-02-0	Nickel___	5820			P
7440-09-7	Potassium	310	B		P
7782-49-2	Selenium_	3.4		N	P
7440-22-4	Silver___	49.5		N	P
7440-23-5	Sodium___	2950			P
7440-28-0	Thallium_	0.96	U		P
7440-62-2	Vanadium_	2.4	B		P
7440-66-6	Zinc_____	17200			P
_____	Cyanide__	1.3			CA
_____	_____	_____			

Color Before: BROWN____ Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW___ Clarity After: CLEAR_ Artifacts: _____

Comments:

FORM I - IN ILM04.1

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

ME00T1

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 30394_ SAS No.: _____ SDG No.: ME00S1

Matrix (soil/water): SOIL_ Lab Sample ID: 49374.11

Level (low/med): LOW__ Date Received: 04/17/02

% Solids: _98.7

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	9090			P
7440-36-0	Antimony	0.99	U	N	P
7440-38-2	Arsenic	4.6		N	P
7440-39-3	Barium	403			P
7440-41-7	Beryllium	60.4		N	P
7440-43-9	Cadmium	18.6		N	P
7440-70-2	Calcium	13400			P
7440-47-3	Chromium	136			P
7440-48-4	Cobalt	132			P
7440-50-8	Copper	5450			P
7439-89-6	Iron	196000			P
7439-92-1	Lead	6790			P
7439-95-4	Magnesium	6550		*	P
7439-96-5	Manganese	2140			P
7439-97-6	Mercury	0.06	B		CV
7440-02-0	Nickel	451			P
7440-09-7	Potassium	787	B		P
7782-49-2	Selenium	0.99	U	N	P
7440-22-4	Silver	0.20	U	N	P
7440-23-5	Sodium	3030			P
7440-28-0	Thallium	11.2			P
7440-62-2	Vanadium	9.0	B		P
7440-66-6	Zinc	62000			P
	Cyanide	0.10	U		CA

Color Before: BROWN____ Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW___ Clarity After: CLEAR_ Artifacts: _____

Comments:

FORM I - IN ILM04.1

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

ME00T2

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 30394_ SAS No.: _____ SDG No.: ME00S1

Matrix (soil/water): SOIL_ Lab Sample ID: 49374.12

Level (low/med): LOW__ Date Received: 04/17/02

% Solids: _93.7

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	5110			P
7440-36-0	Antimony_	1.1	U	N	P
7440-38-2	Arsenic__	6.9		N	P
7440-39-3	Barium___	390			P
7440-41-7	Beryllium	33.1		N	P
7440-43-9	Cadmium__	23.4		N	P
7440-70-2	Calcium__	11700			P
7440-47-3	Chromium_	62.1			P
7440-48-4	Cobalt___	116			P
7440-50-8	Copper___	6630			P
7439-89-6	Iron____	152000			P
7439-92-1	Lead____	7940			P
7439-95-4	Magnesium	4220		*	P
7439-96-5	Manganese	1960			P
7439-97-6	Mercury__	0.11			CV
7440-02-0	Nickel___	587			P
7440-09-7	Potassium	955	B		P
7782-49-2	Selenium_	2.3		N	P
7440-22-4	Silver___	0.21	U	N	P
7440-23-5	Sodium___	2390			P
7440-28-0	Thallium_	13.5			P
7440-62-2	Vanadium_	4.0	B		P
7440-66-6	Zinc____	63200			P
	Cyanide__	0.11	U		CA

Color Before: BRCWN____ Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW___ Clarity After: CLEAR_ Artifacts: _____

Comments:

FORM I - IN ILM04.1

3
BLANKS

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 30394_ SAS No.: _____ SDG No.: ME00S1

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	13.0	U	13.0	U	20.8	B	18.1	B	-5.79	B	P
Antimony	11.0	B	13.0	B	11.7	B	12.6	B	1.00	U	P
Arsenic	4.0	U	4.0	U	4.0	U	4.0	U	0.80	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	1.1	B	0.20	U	P
Cadmium	1.0	U	1.0	U	1.0	U	1.0	U	0.20	U	P
Calcium	13.0	U	13.0	U	13.0	U	13.0	U	-4.95	B	P
Chromium	1.0	U	1.0	U	1.0	U	1.0	U	0.20	U	P
Cobalt	2.0	U	2.0	U	2.0	U	2.0	U	0.40	U	P
Copper	3.0	U	3.0	U	3.0	U	23.6	B	-0.90	B	P
Iron	28.0	U	28.0	U	28.0	U	28.0	U	5.60	U	P
Lead	2.0	U	2.0	U	2.0	U	2.1	B	0.40	U	P
Magnesium	10.0	U	10.0	U	10.0	U	10.0	U	2.00	U	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	2.0	U	2.0	U	2.0	U	2.0	U	0.40	U	P
Potassium	55.0	U	55.0	U	55.0	U	55.0	U	11.00	U	P
Selenium	5.0	U	5.0	U	5.0	U	5.0	U	1.00	U	P
Silver	1.0	U	1.0	U	1.0	U	1.0	U	0.20	U	P
Sodium	24.0	U	24.0	U	24.0	U	24.0	U	4.80	U	P
Thallium	5.0	U	5.0	U	5.0	U	5.0	U	1.00	U	P
Vanadium	1.0	U	1.0	U	1.0	U	1.0	U	0.20	U	P
Zinc	4.0	U	4.0	U	12.6	B	12.7	B	-1.15	B	P
Cyanide	-2.5	B	-2.3	B	-2.3	B	-2.7	B	0.10	U	CA

3
BLANKS

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 30394_ SAS No.: _____ SDG No.: ME00S1

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			19.2	B							P
Antimony	7.2	B	9.1	B	8.4	B	8.0	B			P
Arsenic	4.0	U	4.0	U	4.0	U	4.0	U			P
Barium			1.0	U							P
Beryllium			1.1	B							P
Cadmium			1.0	U							P
Calcium			13.0	U							P
Chromium			1.0	U							P
Cobalt			2.0	U							P
Copper	3.0	U	3.0	U	3.7	B	5.3	B			P
Iron			28.0	U							P
Lead			2.0	U							P
Magnesium			10.0	U							P
Manganese			1.0	U							P
Mercury			0.1	U	0.1	U	0.1	U			CV
Nickel			2.0	U							P
Potassium			55.0	U							P
Selenium	5.0	U	5.0	U	5.0	U	5.0	U			P
Silver			1.0	U							P
Sodium	24.0	U	24.0	U	24.0	U	24.0	U			P
Thallium			5.0	U							P
Vanadium			1.0	U							P
Zinc			15.4	B							P
Cyanide											NR

3
BLANKS

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 30394_ SAS No.: _____ SDG No.: ME00S1

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	-31.3	B	-19.2	B	-35.5	B	-25.8	B			P
Antimony			9.3	B							P
Arsenic			4.0	U							P
Barium	1.0	U	1.0	U	1.0	U	1.0	U			P
Beryllium	1.0	U	1.0	U	1.0	U	1.0	U			P
Cadmium	1.0	U	1.0	U	1.0	U	1.0	U			P
Calcium	13.0	U	13.0	U	13.0	U	13.0	U			P
Chromium	1.0	U	1.0	U	1.0	U	1.0	U			P
Cobalt	2.0	U	2.0	U	2.0	U	2.0	U			P
Copper			3.1	B							P
Iron	28.0	U	28.0	U	28.0	U	28.0	U			P
Lead	2.0	U	2.0	U	2.0	U	2.0	U			P
Magnesium	-10.2	B	10.0	U	-10.2	B	10.0	U			P
Manganese	1.0	U	1.0	U	1.0	U	1.0	U			P
Mercury			0.1	U	0.1	U					CV
Nickel	2.0	U	2.0	U	2.0	U	2.0	U			P
Potassium	55.0	U	55.0	U	55.0	U	55.0	U			P
Selenium			5.0	U							P
Silver	1.0	U	1.0	U	1.0	U	1.0	U			P
Sodium			24.0	U							P
Thallium	5.0	U	5.0	U	5.0	U	5.0	U			P
Vanadium	1.0	U	1.0	U	1.0	U	1.0	U			P
Zinc	4.0	U	4.0	U	4.0	U	4.0	U			P
Cyanide											NR

U.S. EPA - CLP

3
BLANKS

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 30394_ SAS No.: _____ SDG No.: ME00S1

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	1.0	U	1.0	U	1.0	U	1.0	U			P
Cadmium	1.0	U	1.0	U	1.0	U	1.0	U			P
Calcium											NR
Chromium											NR
Cobalt											NR
Copper											NR
Iron			28.0	U							P
Lead			2.0	U							P
Magnesium											NR
Manganese											NR
Mercury											NR
Nickel											NR
Potassium											NR
Selenium	5.0	U	5.0	U	5.0	U	5.0	U			P
Silver											NR
Sodium											NR
Thallium											NR
Vanadium											NR
Zinc			4.0	U							P
Cyanide											NR

FORM III - IN ILM04.1

3
BLANKS

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 30394_ SAS No.: _____ SDG No.: ME00S1

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			1.0	U							P
Cadmium			1.0	U							P
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											NR
Thallium											NR
Vanadium											NR
Zinc											NR
Cyanide											NR

U.S. EPA - CLP

5A
SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

ME00T2S

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086

Lab Code: AATS Case No.: 30394 SAS No.: _____ SDG No.: ME00S1

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

% Solids for Sample: 93.7

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

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									NR
Antimony	75-125	27.1735		1.0567	U	105.67	25.7	N	P
Arsenic	75-125	12.8601		6.9178		8.45	70.3	N	P
Barium	75-125	758.8081		390.4169		422.67	87.2		P
Beryllium	75-125	50.1956		33.1101		10.57	161.6	N	P
Cadmium	75-125	30.3896		23.3739		10.57	66.4	N	P
Calcium									NR
Chromium	75-125	108.3257		62.1455		42.27	109.3		P
Cobalt	75-125	219.5902		115.7008		105.67	98.3		P
Copper		7250.5608		6629.2881		52.83	1176.0		P
Iron									NR
Lead		8356.8300		7939.5224		4.23	9865.4		P
Magnesium									NR
Manganese		2171.1848		1964.5236		105.67	195.6		P
Mercury	75-125	0.5489		0.1072		0.51	86.6		CV
Nickel		685.4995		586.8504		105.67	93.4		P
Potassium									NR
Selenium	75-125	5.7927		2.2782		2.11	166.6	N	P
Silver	75-125	5.2609		0.2113	U	10.57	49.8	N	P
Sodium									NR
Thallium	75-125	22.8834		13.5082		10.57	88.7		P
Vanadium	75-125	103.1990		4.0327	B	105.67	93.8		P
Zinc		65821.8244		63184.1035		105.67	2496.2		P
Cyanide	75-125	3.9445		0.1057	U	5.28	74.7		CA

Comments:

FORM V (Part 1) - IN ILM04.1

U.S. EPA - CLP

5B
POST DIGEST SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

ME00T2A

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 30394_ SAS No.: _____ SDG No.: ME00S1

Matrix (soil/water) : SOIL__ Level (low/med): LOW___

Concentration Units: ug/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Added (SA)	%R	Q	M
Aluminum									NR
Antimony		84.78		5.00	U	120.0	70.6		P
Arsenic		117.79		32.73		66.0	128.9		P
Barium									NR
Beryllium		476.34		156.67		313.0	102.1		P
Cadmium		349.71		110.60		330.0	72.5		P
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead									NR
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium		19.75		10.78		22.0	40.8		P
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide									NR

Comments:

U.S. EPA - CLP

6
DUPLICATES

EPA SAMPLE NO.

ME00T2D

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 30394_ SAS No.: _____ SDG No.: ME00S1

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

% Solids for Sample: _93.7 % Solids for Duplicate: __94.8

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

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum		5105.5830		5825.4349		13.2		P
Antimony		1.0567	U	1.0567	U			P
Arsenic	2.1133	6.9178		6.6627		3.8		P
Barium		390.4169		386.0053		1.1		P
Beryllium		33.1101		35.2382		6.2		P
Cadmium		23.3739		25.7599		9.7		P
Calcium		11698.0418		13479.9260		14.2		P
Chromium		62.1455		62.1774		0.1		P
Cobalt		115.7008		129.9435		11.6		P
Copper		6629.2881		6432.3055		3.0		P
Iron		152475.4588		186013.1344		19.8		P
Lead		7939.5224		9648.2976		19.4		P
Magnesium	1056.669	4216.1727		5278.5243		22.4	*	P
Manganese		1964.5236		2120.6291		7.6		P
Mercury	0.1016	0.1072		0.1082		0.9		CV
Nickel		586.8504		579.7310		1.2		P
Potassium	1056.669	955.4698	B	1069.7501		11.3		P
Selenium	1.0567	2.2782		2.9570		25.9		P
Silver		0.2113	U	0.3012	B	200.0		P
Sodium	1056.669	2393.3383		2731.0525		13.2		P
Thallium		13.5082		13.9632		3.3		P
Vanadium		4.0327	B	4.5978	B	13.1		P
Zinc		63184.1035		76750.3513		19.4		P
Cyanide		0.1057	U	0.1057	U			CA

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10
Instrument Detection Limits (Quarterly)

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 30394_ SAS No.: _____ SDG No.: ME00S1

ICP ID Number: TJA_ET3_____ Date: 03/05/02

Flame AA ID Number : _____

Furnace AA ID Number : _____

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum	308.16		200	13.0	P
Antimony	206.84		60	5.0	P
Arsenic	189.04		10	4.0	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	13.0	P
Chromium	267.75		10	1.0	P
Cobalt	228.61		50	2.0	P
Copper	324.75		25	3.0	P
Iron	271.44		100	28.0	P
Lead	220.35		3	2.0	P
Magnesium	279.81		5000	10.0	P
Manganese	257.61		15	1.0	P
Mercury			0.2		NR
Nickel	231.60		40	2.0	P
Potassium	766.49		5000	55.0	P
Selenium	196.03		5	5.0	P
Silver	328.07		10	1.0	P
Sodium	588.99		5000	24.0	P
Thallium	190.68		10	5.0	P
Vanadium	292.40		50	1.0	P
Zinc	213.86		20	4.0	P
Cyanide			10		NR

Comments:

FORM X - IN ILM04.1

10
Instrument Detection Limits (Quarterly)

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 30394_ SAS No.: _____ SDG No.: ME00S1

ICP ID Number: _____ Date: 02/21/02

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	253.70		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.: 30394_ SAS No.: _____ SDG No.: ME00S1

ICP ID Number: _____ Date: 04/02/02

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	2.0	CA

Comments:

U.S. EPA - CLP

13
PREPARATION LOG

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.:_30394_ SAS No.: _____ SDG No.:ME00S1

Method: F_

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
LCSS	04/19/02	1.00	200
ME00S1	04/19/02	1.05	200
ME00S2	04/19/02	1.01	200
ME00S3	04/19/02	1.00	200
ME00S4	04/19/02	1.01	200
ME00S5	04/19/02	1.00	200
ME00S6	04/19/02	1.05	200
ME00S7	04/19/02	1.05	200
ME00S8	04/19/02	1.00	200
ME00S9	04/19/02	1.04	200
ME00T0	04/19/02	1.05	200
ME00T1	04/19/02	1.02	200
ME00T2	04/19/02	1.01	200
ME00T2D	04/19/02	1.01	200
ME00T2S	04/19/02	1.01	200
PBS	04/19/02	1.00	200

FORM XIII - IN ILM04.1

13
PREPARATION LOG

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.:_30394_ SAS No.: _____ SDG No.:ME00S1

Method: CV

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
LCSS	04/23/02	0.20	100
ME00S1	04/23/02	0.23	100
ME00S2	04/23/02	0.22	100
ME00S3	04/23/02	0.22	100
ME00S4	04/23/02	0.20	100
ME00S5	04/23/02	0.20	100
ME00S6	04/23/02	0.20	100
ME00S7	04/23/02	0.20	100
ME00S8	04/23/02	0.22	100
ME00S9	04/23/02	0.20	100
ME00T0	04/23/02	0.25	100
ME00T1	04/23/02	0.22	100
ME00T2	04/23/02	0.21	100
ME00T2D	04/23/02	0.21	100
ME00T2S	04/23/02	0.21	100
PBS	04/23/02	0.20	100

U.S. EPA - CLP

13
PREPARATION LOG

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.:_30394_ SAS No.: _____ SDG No.:ME00S1

Method: CA

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
LCSS	04/19/02	1.00	50
ME00S1	04/19/02	1.00	50
ME00S2	04/19/02	1.04	50
ME00S3	04/19/02	1.00	50
ME00S4	04/19/02	1.00	50
ME00S5	04/19/02	1.04	50
ME00S6	04/19/02	1.01	50
ME00S7	04/19/02	1.00	50
ME00S8	04/19/02	1.00	50
ME00S9	04/19/02	1.00	50
ME00T0	04/19/02	1.00	50
ME00T1	04/19/02	1.05	50
ME00T2	04/19/02	1.01	50
ME00T2D	04/19/02	1.01	50
ME00T2S	04/19/02	1.01	50
PBS	04/19/02	1.00	50

FORM XIII - IN ILM04.1

DATE: May 2, 2002

IEPA
1021 North Grand Avenue East
P.O. Box 19276
Springfield, IL 62794-9276

Attn: Bob Casper

SITE NAME: Chemetco

CASE NO.	LAB	NO. OF SAMPLES	SDG	MATRIX
30394	Compuchem	7	E00P3	Water

Upon receipt of data, please check each package for completeness and note any missing deliverables below.

Send this form back to Sylvia Griffin, Data Management Coordinator after filling in the blanks below.

Data Received by:_____ Date:_____

PROBLEMS:

Please indicate if data is complete, and note if there are any deliverables missing from the cases noted above.

_____

_____

Received by Data Management Coordinator, CRL for file.
Date:_____

Signature:_____

FROM: U.S. EPA
Region V
Central Regional Laboratory
536 S. Clark, 10th Floor
Chicago, IL 60605

Sent By: Eva M. Dixon, Sr. Data Specialist
ESAT

RECEIVED
MAY 07 2002
IEPA-ECL-FSFS

MAY 02 2002

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V
SUPERFUND DIVISION

DATE: May 1, 2002

SUBJECT: Electronic (**Level 2**) Review of Data

Received for Review on April 29, 2002

FROM: Stephen L. Ostrodka, Chief (SMF-4J)
Superfund Field Services Section

TO: Data User: IEPA

The following data has been electronically reviewed by CADRE. No review of the raw data, laboratory narrative, laboratory forms or chain-of-custody forms was performed.

SITE NAME: Chemetco (IL)

CASE NUMBER: 30394 SDG NUMBER: E00P3

Number and Type of Samples: 7 (water)

Sample Numbers: E00P3-4, E00P6-9, E00Q0

Laboratory: **Compuchem** Hrs. for Review: _____

Following are our findings:

C: Cecilia Moore
Region 5 TPO
Mail Code: SMF-4J

Case Number : 30394
Site Name: Chemetco (IL)

SDG Number: E00P3
Laboratory: Compuchem

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

Seven (7) water samples, numbered E00P3-4, E00P6-9, and E00Q0, were collected on April 15, 2002. The lab received the samples on April 17, 2002 in good condition. E00Q0 was analyzed only for volatile organic analytes. All other samples were analyzed for the full list of organic analytes, All were analyzed according to CLP SOW OLC03.2 6/01.

Case Number : 30394
Site Name: Chemetco (IL)

SDG Number: E00P3
Laboratory: Compuche

1. HOLDING TIME

No defects found.

2. GC/MS TUNING AND GC INSTRUMENT PERFORMANCE

No defects found.

3. CALIBRATION

DC-7 The following volatile samples are associated with a continuing calibration whose corr esponding initial calibration has percent relative standard deviation (%RSD) outside primary criteria. Hits are qualified "J" and non-detects are flagged "UJ".

Methyl Acetate
E00P3, E00P4, E00P6, E00P6MS, E00P6MSD, E00P7, E00P8, E00P9, E00Q0, VBLKTH, VHBLKTH

DC-12 The following volatile samples are associated with a continuing calibration percent difference (%D) outside expanded criteria. Hits are flaged "J" and non-detects are flagged "UJ".

1,1,1-Trichloroethane, Carbon Tetrachloride
E00P3 E00P4, E00P6, E00P6MS, E00P6MSD, E00P7, E00P8, E00P9, E00Q0, VBLKTH, VHBLKTH

DC-12 The following semivolatile samples are associated with a continuing calibration percent difference (%D) outside expanded criteria. Hits are flagged "J" and non-detects are flagged "UJ".

N-Nitroso-di-n-propylamine
E00P3, E00P4, E00P6, E00P6MS, E00P6MSD, E00P7, E00P8, E00P9, SBLKQF

DC-22 The following semivolatile samples are associated with a continuing calibration in which a surrogate/DMC exceeded percent difference (%D) criteria. Use professional judgement to qualify sample data.

E00P3, E00P4, E00P6, E00P6MS, E00P6MSD, E00P7, E00P8, E00P9, SBLKQF

4. BLANKS

DC-15 The following volatile samples were analyzed after a highly contaminated sample and have no preceding instrument blank. Professional judgement should be used to qualify the data.

Case Number : 30394
Site Name: Chemetco (IL)

SDG Number: E00P3
Laboratory: Compuchem

Benzene
E00P6MSD

Trichloroethene
E00P6MS, E00Q0

DC-19 The following volatile samples are associated with a contaminated storage blank. Hits are qualified "J" and non-detects are not flagged.

Methylene Chloride
E00P3, E00P4, E00P6, E00P6MS, E00P6MSD, E00P8, E00Q0

cis-1,3-Dichloropropene, Bromoform
E00P3, E00P4, E00P6, E00P6MS, E00P6MSD, E00P7, E00P8, E00P9, E00Q0

DC-21 The following volatile samples have analyte concentrations reported below the CRQL. The associated method blank concentration is less than the concentration criteria. Reported sample concentrations have been elevated to the CRQL. Hits are qualified "U" and non-detects are not flagged.

Acetone
E00P6, E00P6MSD, E00P8, E00P9, E00Q0

Methylene Chloride
E00P3, E00P4, E00P6, E00P6MS, E00P6MSD, E00P8, E00Q0

cis-1,3-Dichloropropene
E00P3, E00P4, E00P6, E00P6MS, E00P6MSD, E00P7, E00P8, E00P9, E00Q0

Toluene
E00P4, E00P7

DC-23 The following volatile samples have analyte concentrations reported at or above the CRQL. The associated method blank concentration is less than the concentration criteria. Hits are qualified "VS" and non-detects are not flagged.

Toluene
E00P6MS, E00P6MSD

DC-24 The following volatile samples have analyte concentrations reported below the CRQL. The associated method blank concentration is more than or equal to the concentration criteria. Reported sample concentrations have been elevated to the CRQL. Hits are qualified "U" and non-detects are not flagged.

Case Number : 30394
Site Name: Chemetco (IL)

SDG Number: E00P3
Laboratory: Compuchem

Bromoform
E00P4, E00P6, E00P6MS, E00P7, E00P9

DC-26 The following volatile samples have analyte concentrations reported at or above the CRQL and less than the method blank concentration. The associated method blank concentration is more than or equal to the concentration criteria. Blank concentration value is reported as the sample result. Hits are qualified "VS" and non-detects are not flagged.

Bromoform
E00P3, E00P6MSD, E00Q0

DC-27 The following volatile samples have analyte concentrations reported at or above the CRQL and more than or equal to the method blank concentration. The associated method blank concentration is more than or equal to the concentration criteria. Hits are qualified "VS" and non-detects are not flagged.

Bromoform
E00P8

DC-11 The following semivolatile samples have analyte concentrations reported below the CRQL. The associated method blank concentration is less than the concentration criteria. Reported sample concentrations have been elevated to the CRQL. Hits are qualified "U" and non-detects are not flagged.

bis(2-Ethylhexyl)phthalate
E00P4, E00P6, E00P6MS, E00P6MSD, E00P7, E00P9

5. SYSTEM MONITORING COMPOUND AND SURROGATE RECOVERY

DC-4 The following volatile samples have one or more DMC recovery values below the lower limit of the criteria window. Hits are biased low and qualified "J" and non-detects are qualified "UJ".

E00P3

DC-19 The following semivolatile samples have deuterated monitoring compound recovery above the upper limit of the criteria window. Hits are qualified "J" and non-detects are not flagged.

E00P3
bis(2-Chloroethyl)ether, 2,2-oxybis(1-Chloropropane), bis(2-Chloroethoxy)methane, 4-Chloroaniline, Hexachlorocyclopentadiene, 3,3-Dichlorobenzidine

Case Number : 30394 SDG Number: E00P3
Site Name: Chemetco (IL) Laboratory: Compuchem

E00P4, E00P6, E00P6MS, E00P6MSD, E00P8
4-Chloroaniline, Hexachlorocyclopentadiene, 3,3-Dichlorobenzidine

6. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

DC-2 The following semivolatile matrix spike/matrix spike duplicate samples have percent recovery outside criteria. Results for the outlier compound(s) in the unspiked sample E00P6 are estimated "J" and non-detects are estimated "UJ".

E00P6MSD
Pentachlorophenol

7. FIELD BLANK AND FIELD DUPLICATE

There are no field blank, trip blanks or field duplicate with this package. Results are not qualified based upon the results of the field blank or field duplicates.

8. INTERNAL STANDARDS

No defects found.

9. COMPOUND IDENTIFICATION

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

10. COMPOUND QUANTITATION AND REPORTED DETECTION LIMITS

DC-1 The following pesticide samples have no associated laboratory control sample (LCS). Hits and non-detects are flagged "M".

PBLKS

DC-1 The following volatile samples have analyte concentrations below the quantitation limit (CRQL). All results below the CRQL are qualified "J".

VHBLKTH
Methylene Chloride, cis-1,3-Dichloropropene

E00P7
1,1-Dichloroethane, 1,4-Dichlorobenzene

Case Number : 30394
Site Name: Chemetco (IL)

SDG Number: E00P3
Laboratory: Compucher

E00P9
Benzene

VBLKTH
Acetone, Methylene Chloride, cis-1,3-Dichloropropene, Toluene

DC-1 The following semivolatile samples have analyte concentrations below the quantitation limit (CRQL). All results below the CRQL are qualified "J".

SBLKQF
bis(2-Ethylhexyl)phthalate

DC-1 The following pesticide samples have analyte concentrations below the quantitation limit (CRQL). All results below the CRQL are qualified "J".

E00P6MS, E00P6MSD
4,4-DDD

11. SYSTEM PERFORMANCE

GC/MS baseline indicated acceptable performance. The GC baseline for the pesticide analysis was acceptable.

12. ADDITIONAL INFORMATION

None.

CADRE Data Qualifier Sheet

Qualifiers	Data Qualifier Definitions
U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J	The anlayte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the action limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
N	The analysis indicates the present of an analyte for which there is presumptive evidence to make a tentative identification.
NJ	The analysis indicates the present of an analyte for which there is presumptive evidence to make a tentative identification and the associated numerical value represents its approximate concentration.
R	The data are unusable. (The compound may or may not be present)

Analytical Results (Qualified Data)

Case #. 30394 SDG . E00P3
Site : CHEMECTO
Lab. : LIBRTY
Reviewer :
Date .

Number of Soil Samples : 0
Number of Water Samples : 7

Sample Number .	E00P3		E00P4		E00P6		E00P6MS		E00P6MSD	
Sampling Location :	G101		G102		G103		G103		G103	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	04/15/2002		04/15/2002		04/15/2002		04/15/2002		04/15/2002	
Time Sampled :	09:30		09.30		10:45		10:45		10:45	
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH .										
Dilution Factor .	1 0		1.0		1.0		1.0		1.0	
Volatile Compoun	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Chloromethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Vinyl Chloride	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Bromomethane	0.5	U	0.5	U	0.5	U	0.5	U	0 5	U
Chloroethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Trichlorofluoromethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,1-Dichloroethene	0.5	U	0.5	U	0.5	U	5		5	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Acetone	5	U	5	U	5	UJ	5	U	5	UJ
Carbon Disulfide	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Methyl Acetate	0.5	UJ	0.5	UJ	0.5	UJ	0.5	UJ	0.5	UJ
Methylene Chloride	0.5	UJ	0.5	UJ	0.5	UJ	0.5	UJ	0.5	UJ
trans-1,2-Dichloroethene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
tert-Butyl Methyl Ether	0 5	U	0 5	U	0.5	U	0.5	U	0.5	U
1,1-Dichloroethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
cis-1,2-Dichloroethene	0.5	U	0.5	U	0.5	U	0.5	U	0 5	U
2-Butanone	5	U	5	U	5	U	5	U	5	U
Bromochloromethane	0.5	U	0.5	U	0.5	U	0 5	U	0.5	U
Chloroform	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,1,1-Trichloroethane	0.5	UJ	0.5	UJ	0 5	UJ	0.5	UJ	0.5	UJ
Cyclohexane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Carbon Tetrachloride	0 5	UJ	0.5	UJ	0.5	UJ	0.5	UJ	0.5	UJ
Benzene	0.5	U	0 5	U	0.5	U	5		5	
1 2-Dichloroethane	0 5	U	0.5	U	0 5	U	0.5	U	0.5	U
Trichloroethene	0.5	U	0.5	U	0.5	U	5		5	
Methylcyclohexane	0 5	U	0.5	U	0.5	U	0.5	U	0 5	U
1,2-Dichloropropane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Bromodichloromethane	0 5	U	0 5	U	0 5	U	0.5	U	0 5	U
cis-1,3-Dichloropropene	0 5	UJ	0.5	UJ	0.5	UJ	0.5	UJ	0.5	UJ
4-Methyl-2-pentanone	5	U	5	U	5	U	5	U	5	U
Toluene	0 5	U	0.5	UJ	0.5	U	5	VS	5	VS
trans-1,3-Dichloropropene	0.5	UJ	0 5	U	0 5	U	0 5	U	0 5	U
1,1,2-Trichloroethane	0.5	UJ	0.5	U	0 5	U	0.5	U	0.5	U

DISCLAIMER This package has been electronically assessed as an added service to our customer It has not been either validated or approved by Region 5 and any subsequent use by the data user is strictly at the risk of the data user Region 5 assumes no responsibility for use of unvalidated data

Analytical Results (Qualified Data)

Case # 30394 SDG : E00P3
Site : CHEMECTO
Lab : LIBRTY
Reviewer :

Sample Number :	E00P3		E00P4		E00P6		E00P6MS		E00P6MSD	
Sampling Location :	G101		G102		G103		G103		G103	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	04/15/2002		04/15/2002		04/15/2002		04/15/2002		04/15/2002	
Time Sampled :	09:30		09:30		10:45		10:45		10:45	
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH										
Dilution Factor	1.0		1.0		1.0		1.0		1.0	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Tetrachloroethene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
2-Hexanone	5	U	5	U	5	U	5	U	5	U
Dibromochloromethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,2-Dibromoethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Chlorobenzene	0.5	U	0.5	U	0.5	U	5		5	
Ethylbenzene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Xylenes (total)	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Styrene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Bromoform	0.9	VS	0.5	UJ	0.5	UJ	0.5	UJ	0.9	VS
Isopropylbenzene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,1,2,2-Tetrachloroethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,3-Dichlorobenzene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,4-Dichlorobenzene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,2-Dichlorobenzene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,2-Dibromo-3-chloropropane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,2,4-Trichlorobenzene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,2,3-Trichlorobenzene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U

Analytical Results (Qualified Data)

Case #: 30394 SDG . E00P3
Site CHEMECTO
Lab. . LIBRTY
Reviewer .
Date

Sample Number :	E00P7		E00P8		E00P9		E00Q0		VBLKTH	
Sampling Location .	G104		G105		G106		G107			
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	04/15/2002		04/15/2002		04/15/2002		04/15/2002			
Time Sampled :	11:30		11:50		12:30		14:00			
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Chloromethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Vinyl Chloride	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Bromomethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Chloroethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Trichlorofluoromethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,1-Dichloroethene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,1,2-Trichloro-1,2,2-trifluoroethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Acetone	5	U	5	UJ	5	UJ	5	UJ	4	J
Carbon Disulfide	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Methyl Acetate	0.5	UJ	0.5	UJ	0.5	UJ	0.5	UJ	0.5	UJ
Methylene Chloride	0.5	U	0.5	UJ	0.5	U	0.5	UJ	0.2	J
trans-1,2-Dichloroethene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
tert-Butyl Methyl Ether	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,1-Dichloroethane	0.5	J	0.5	U	0.5	U	0.5	U	0.5	U
cis-1,2-Dichloroethene	0.5	U	0.5	U	3		0.5	U	0.5	U
2-Butanone	5	U	5	U	5	U	5	U	5	U
Bromochloromethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Chloroform	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,1,1-Trichloroethane	0.5	UJ	0.5	UJ	0.5	UJ	0.5	UJ	0.5	UJ
Cyclohexane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Carbon Tetrachloride	0.5	UJ	0.5	UJ	0.5	UJ	0.5	UJ	0.5	UJ
Benzene	0.5	U	0.5	U	0.2	J	0.5	U	0.5	U
1,2-Dichloroethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Trichloroethene	0.5	U	0.5	U	5		0.5	U	0.5	U
Methylcyclohexane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,2-Dichloropropane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Bromodichloromethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
cis-1,3-Dichloropropene	0.5	UJ	0.5	UJ	0.5	UJ	0.5	UJ	0.1	J
4-Methyl-2-pentanone	5	U	5	U	5	U	5	U	5	U
Toluene	0.5	UJ	0.5	U	0.5	U	0.5	U	0.1	J
trans-1,3-Dichloropropene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,1,2-Trichloroethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U

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Analytical Results (Qualified Data)

Case #: 30394 SDG : E00P3
Site CHEMECTO
Lab. LIBRTY
Reviewer .
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Sample Number	E00P7		E00P8		E00P9		E00Q0		VBLKTH	
Sampling Location	G104		G105		G106		G107			
Matrix :	Water		Water		Water		Water		Water	
Units	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	04/15/2002		04/15/2002		04/15/2002		04/15/2002			
Time Sampled	11:30		11:50		12:30		14:00			
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH										
Dilution Factor :	1.0		1 0		1 0		1.0		1.0	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Tetrachloroethene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
2-Hexanone	5	U	5	U	5	U	5	U	5	U
Dibromochloromet ne	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,2-Dibromoethan	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Chlorobenzene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Ethylbenzene	0 5	U	0.5	U	0.5	U	0.5	U	0 5	U
Xylenes (total)	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Styrene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Bromoform	0.5	UJ	1	VS	0.5	UJ	0.9	VS	0.9	
Isopropylbenzene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,1,2,2-Tetrachloroethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,3-Dichlorobenzene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,4-Dichlorobenzene	0.3	J	0.5	U	0.5	U	0.5	U	0.5	U
1,2-Dichlorobenzene	0.5	U	0 5	U	0.5	U	0.5	U	0.5	U
1,2-Dibromo-3-chloropropane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1, chlorobenzene	0 5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,2,3-Trichlorobenzene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U

Analytical Results (Qualified Data)

Case #: 30394 SDG : E00P3
Site : CHEMECTO
Lab. : LIBRTY
Reviewer :
Date :

Sample Number :	VHBLKTH									
Sampling Location :										
Matrix :	Water									
Units :	ug/L									
Date Sampled										
Time Sampled :										
%Moisture :	N/A									
pH :										
Dilution Factor :	1.0									
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	0.5	U								
Chloromethane	0.5	U								
Vinyl Chloride	0.5	U								
Bromomethane	0.5	U								
Chloroethane	0.5	U								
Trichlorofluoromethane	0.5	U								
1,1-Dichloroethene	0.5	U								
1,1,2-Trichloro-1,2,2-trifluoroethane	0.5	U								
Acetone	5	U								
Carbon Disulfide	0.5	U								
Methyl Acetate	0.5	UJ								
Methylene Chloride	0.4	J								
trans-1,2-Dichloroethene	0.5	U								
tert-Butyl Methyl Ether	0.5	U								
1,1-Dichloroethane	0.5	U								
cis-1,2-Dichloroethene	0.5	U								
2-Butanone	5	U								
Bromochloromethane	0.5	U								
Chloroform	0.5	U								
1,1,1-Trichloroethane	0.5	UJ								
Cyclohexane	0.5	U								
Carbon Tetrachloride	0.5	UJ								
Benzene	0.5	U								
1,2-Dichloroethane	0.5	U								
Trichloroethene	0.5	U								
Methylcyclohexane	0.5	U								
1,2-Dichloropropane	0.5	U								
Bromodichloromethane	0.5	U								
cis-1,3-Dichloropropene	0.2	J								
4-Methyl-2-pentanone	5	U								
Toluene	0.5	U								
trans-1,3-Dichloropropene	0.5	U								
1,1,2-Trichloroethane	0.5	U								

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Analytical Results (Qualified Data)

Case #: 30394 SDG : E00P3
Site CHEMECTO
Lab. : LIBRTY
Reviewer
[

Sample Number :	VHBLKTH									
Sampling Location :										
Matrix :	Water									
Units :	ug/L									
Date Sampled :										
Time Sampled :										
%Moisture :	N/A									
pH :										
Dilution Factor :	1.0									
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Tetrachloroethene	0.5	U								
2-Hexanone	5	U								
Dibromochloromethane	0.5	U								
1,2-Dibromoethane	0.5	U								
Chlorobenzene	0.5	U								
Ethylbenzene	0.5	U								
Xylenes (total)	0.5	U								
Styrene	0.5	U								
Bromoform	0.8									
Isopropylbenzene	0.5	U								
1,1,2,2-Tetrachloroethane	0.5	U								
1,3-Dichlorobenzene	0.5	U								
1,4-Dichlorobenzene	0.5	U								
1,2-Dichlorobenzene	0.5	U								
1,2-Dibromo-3-chloropropane	0.5	U								
Trichlorobenzene	0.5	U								
1,2,3-Trichlorobenzene	0.5	U								

Analytical Results (Qualified Data)

Case #: 30394 SDG : E00P3
Site : CHEMECTO
Lab. : LIBRTY
Reviewer :
Date :

Number of Soil Samples : 0
Number of Water Samples : 6

Sample Number :	E00P3		E00P4		E00P6		E00P6MS		E00P6MSD	
Sampling Location :	G101		G102		G103		G103		G103	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	04/15/2002		04/15/2002		04/15/2002		04/15/2002		04/15/2002	
Time Sampled	09.30		09:30		10:45		10:45		10:45	
%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	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Benzaldehyde	5	U	5	U	5	U	5	U	5	U
Phenol	5	U	5	U	5	U	58		57	
bis-(2-Chloroethyl) - ether	5	U	5	U	5	U	5	U	5	U
2-Chlorophenol	5	U	5	U	5	U	59		59	
2-Methylphenol	5	U	5	U	5	U	5	U	5	U
2,2'-oxybis(1-Chloropropane)	5	U	5	U	5	U	5	U	5	U
Acetophenone	5	U	5	U	5	U	5	U	5	U
4-Methylphenol	5	U	5	U	5	U	5	U	5	U
N-Nitroso-di-n-propylamine	5	UJ	5	UJ	5	UJ	15	J	14	J
Hexachloroethane	5	U	5	U	5	U	5	U	5	U
Nitrobenzene	5	U	5	U	5	U	5	U	5	U
Isophorone	5	U	5	U	5	U	5	U	5	U
2-Nitrophenol	5	U	5	U	5	U	5	U	5	U
2,4-Dimethylphenol	5	U	5	U	5	U	5	U	5	U
bis(2-Chloroethoxy)methane	5	U	5	U	5	U	5	U	5	U
2,4-Dichlorophenol	5	U	5	U	5	U	5	U	5	U
Naphthalene	5	U	5	U	5	U	5	U	5	U
4-Chloroaniline	5	U	5	U	5	U	5	U	5	U
Hexachlorobutadiene	5	U	5	U	5	U	5	U	5	U
Caprolactam	5	U	5	U	5	U	5	U	5	U
4-Chloro-3-methylphenol	5	U	5	U	5	U	59		57	
2-Methylnaphthalene	5	U	5	U	5	U	5	U	5	U
Hexachlorocyclopentadiene	5	U	5	U	5	U	5	U	5	U
2,4,6-Trichlorophenol	5	U	5	U	5	U	5	U	5	U
2,4,5-Trichlorophenol	20	U	20	U	20	U	20	U	20	U
1,1'-Biphenyl	5	U	5	U	5	U	5	U	5	U
2-Chloronaphthalene	5	U	5	U	5	U	5	U	5	U
2-Nitroaniline	20	U	20	U	20	U	20	U	20	U
Dimethylphthalate	5	U	5	U	5	U	5	U	5	U
2,6-Dinitrotoluene	5	U	5	U	5	U	5	U	5	U
Acenaphthylene	5	U	5	U	5	U	5	U	5	U
3-Nitroaniline	20	U	20	U	20	U	20	U	20	U
Acenaphthene	5	U	5	U	5	U	15		14	

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Analytical Results (Qualified Data)

Case #: 30394 SDG : E00P3
Site : CHEMECTO
Lab. LIBRTY
Reviewer

Sample Number :	E00P3		E00P4		E00P6		E00P6MS		E00P6MSD	
Sampling Location	G101		G102		G103		G103		G103	
Matrix :	Water		Water		Water		Water		Water	
Units	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled	04/15/2002		04/15/2002		04/15/2002		04/15/2002		04/15/2002	
Time Sampled	09:30		09:30		10:45		10:45		10:45	
%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	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2,4-Dinitrophenol	20	U	20	U	20	U	20	U	20	U
4-Nitrophenol	20	U	20	U	20	U	52		61	
Dibenzofuran	5	U	5	U	5	U	5	U	5	U
2,4-Dinitrotoluene	5	U	5	U	5	U	14		15	
Diethylphthalate	5	U	5	U	5	U	5	U	5	U
Fluorene	5	U	5	U	5	U	5	U	5	U
4-Chlorophenyl-phenyl ether	5	U	5	U	5	U	5	U	5	U
4-Nitroaniline	20	U	20	U	20	U	20	U	20	U
4,6-Dinitro-2-methylphenol	20	U	20	U	20	U	20	U	20	U
N-Nitrosodiphenylamine	5	U	5	U	5	U	5	U	5	U
1,2,4,5-Tetrachlorobenzene	5	U	5	U	5	U	5	U	5	U
4-Bromophenyl-phenylether	5	U	5	U	5	U	5	U	5	U
Hexachlorobenzene	5	U	5	U	5	U	5	U	5	U
Atrazine	5	U	5	U	5	U	5	U	5	U
Pentachlorophenol	5	U	5	U	5	UJ	78		86	
anthrene	5	U	5	U	5	U	5	U	5	U
Anthracene	5	U	5	U	5	U	5	U	5	U
Di-n-butylphthalate	5	U	5	U	5	U	5	U	5	U
Fluoranthene	5	U	5	U	5	U	5	U	5	U
Pyrene	5	U	5	U	5	U	18		19	
Butylbenzylphthalate	5	U	5	U	5	U	5	U	5	U
3,3'-Dichlorobenzidine	5	U	5	U	5	U	5	U	5	U
Benzo(a)anthracene	5	U	5	U	5	U	5	U	5	U
Chrysene	5	U	5	U	5	U	5	U	5	U
bis(2-Ethylhexyl)phthalate	5	U	5	UJ	5	UJ	5	UJ	5	UJ
Di-n-octylphthalate	5	U	5	U	5	U	5	U	5	U
Benzo(b)fluoranthene	5	U	5	U	5	U	5	U	5	U
Benzo(k)fluoranthene	5	U	5	U	5	U	5	U	5	U
Benzo(a)pyrene	5	U	5	U	5	U	5	U	5	U
Indeno(1,2,3-cd)pyrene	5	U	5	U	5	U	5	U	5	U
Dibenzo(a,h)anthracene	5	U	5	U	5	U	5	U	5	U
Benzo(g,h,i)perylene	5	U	5	U	5	U	5	U	5	U

Analytical Results (Qualified Data)

Case #: 30394 SDG E00P3
Site : CHEMECTO
Lab. : LIBRTY
Reviewer .
Date .

Sample Number .	E00P7		E00P8		E00P9		SBLKQF			
Sampling Location .	G104		G105		G106					
Matrix :	Water		Water		Water		Water			
Units :	ug/L		ug/L		ug/L		ug/L			
Date Sampled :	04/15/2002		04/15/2002		04/15/2002					
Time Sampled :	11:30		11:50		12:30					
%Moisture :	N/A		N/A		N/A		N/A			
pH :										
Dilution Factor	1.0		1.0		1.0		1.0			
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Benzaldehyde	5	U	5	U	5	U	5	U		
Phenol	5	U	5	U	5	U	5	U		
bis-(2-Chloroethyl) ether	5	U	5	U	5	U	5	U		
2-Chlorophenol	5	U	5	U	5	U	5	U		
2-Methylphenol	5	U	5	U	5	U	5	U		
2,2'-oxybis(1-Chloropropane)	5	U	5	U	5	U	5	U		
Acetophenone	5	U	5	U	5	U	5	U		
4-Methylphenol	5	U	5	U	5	U	5	U		
N-Nitroso-di-n-propylamine	5	UJ	5	UJ	5	UJ	5	UJ		
Hexachloroethane	5	U	5	U	5	U	5	U		
Nitrobenzene	5	U	5	U	5	U	5	U		
Isophorone	5	U	5	U	5	U	5	U		
2-Nitrophenol	5	U	5	U	5	U	5	U		
2,4-Dimethylphenol	5	U	5	U	5	U	5	U		
bis(2-Chloroethoxy)methane	5	U	5	U	5	U	5	U		
2,4-Dichlorophenol	5	U	5	U	5	U	5	U		
Naphthalene	5	U	5	U	5	U	5	U		
4-Chloroaniline	5	U	5	U	5	U	5	U		
Hexachlorobutadiene	5	U	5	U	5	U	5	U		
Caprolactam	5	U	5	U	5	U	5	U		
4-Chloro-3-methylphenol	5	U	5	U	5	U	5	U		
2-Methylnaphthalene	5	U	5	U	5	U	5	U		
Hexachlorocyclopentadiene	5	U	5	U	5	U	5	U		
2,4,6-Trichlorophenol	5	U	5	U	5	U	5	U		
2,4,5-Trichlorophenol	20	U	20	U	20	U	20	U		
1,1'-Biphenyl	5	U	5	U	5	U	5	U		
2-Chloronaphthalene	5	U	5	U	5	U	5	U		
2-Nitroaniline	20	U	20	U	20	U	20	U		
Dimethylphthalate	5	U	5	U	5	U	5	U		
2,6-Dinitrotoluene	5	U	5	U	5	U	5	U		
Acenaphthylene	5	U	5	U	5	U	5	U		
3-Nitroaniline	20	U	20	U	20	U	20	U		
Acenaphthene	5	U	5	U	5	U	5	U		

DISCLAIMER This package has been electronically assessed as an added service to our customer. It has not been either validated or approved by Region 5 and any subsequent use by the data user is strictly at the risk of the data user. Region 5 assumes no responsibility for use of unvalidated data

Analytical Results (Qualified Data)

Case #: 30394 SDG . E00P3
Site CHEMECTO
Lab. : LIBRTY
Reviewer :
Date

Sample Number .	E00P7		E00P8		E00P9		SBLKQF			
Sampling Location	G104		G105		G106					
Matrix :	Water		Water		Water		Water			
Units :	ug/L		ug/L		ug/L		ug/L			
Date Sampled :	04/15/2002		04/15/2002		04/15/2002					
Time Sampled :	11.30		11:50		12:30					
%Moisture	N/A		N/A		N/A		N/A			
pH :										
Dilution Factor	1.0		1.0		1.0		1.0			
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2,4-Dinitrophenol	20	U	20	U	20	U	20	U		
4-Nitrophenol	20	U	20	U	20	U	20	U		
Dibenzofuran	5	U	5	U	5	U	5	U		
2,4-Dinitrotoluene	5	U	5	U	5	U	5	U		
Diethylphthalate	5	U	5	U	5	U	5	U		
Fluorene	5	U	5	U	5	U	5	U		
4-Chlorophenyl-phenyl ether	5	U	5	U	5	U	5	U		
4-Nitroaniline	20	U	20	U	20	U	20	U		
4,6-Dinitro-2-methylphenol	20	U	20	U	20	U	20	U		
N-Nitrosodiphenylamine	5	U	5	U	5	U	5	U		
1,2,4,5-Tetrachlorobenzene	5	U	5	U	5	U	5	U		
4-Bromophenyl-phenylether	5	U	5	U	5	U	5	U		
Hexachlorobenzene	5	U	5	U	5	U	5	U		
Atrazine	5	U	5	U	5	U	5	U		
Pentachlorophenol	5	U	5	U	5	U	5	U		
Pher ene	5	U	5	U	5	U	5	U		
Anthracene	5	U	5	U	5	U	5	U		
Di-n-butylphthalate	5	U	5	U	5	U	5	U		
Fluoranthene	5	U	5	U	5	U	5	U		
Pyrene	5	U	5	U	5	U	5	U		
Butylbenzylphthalate	5	U	5	U	5	U	5	U		
3,3'-Dichlorobenzidine	5	U	5	U	5	U	5	U		
Benzo(a)anthracene	5	U	5	U	5	U	5	U		
Chrysene	5	U	5	U	5	U	5	U		
bis(2-Ethylhexyl)phthalate	5	UJ	5	U	5	UJ	3	J		
Di-n-octylphthalate	5	U	5	U	5	U	5	U		
Benzo(b)fluoranthene	5	U	5	U	5	U	5	U		
Benzo(k)fluoranthene	5	U	5	U	5	U	5	U		
Benzo(a)pyrene	5	U	5	U	5	U	5	U		
Indeno(1,2,3-cd)pyrene	5	U	5	U	5	U	5	U		
Dibenzo(a,h)anthracene	5	U	5	U	5	U	5	U		
Benzo(g,h,i)perylene	5	U	5	U	5	U	5	U		

Analytical Results (Qualified Data)

Case #. 30394 SDG : E00P3
Site CHEMECTO
Lab. : LIBRTY
Reviewer :
Date

Number of Soil Samples 0
Number of Water Samples . 6

Sample Number .	E00P3		E00P4		E00P6		E00P6MS		E00P6MSD	
Sampling Location :	G101		G102		G103		G103		G103	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled	04/15/2002		04/15/2002		04/15/2002		04/15/2002		04/15/2002	
Time Sampled	09:30		09:30		10:45		10.45		10.45	
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :										
Dilution Factor	1.0		1.0		1.0		1.0		1.0	
Pesticide/PCB Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
alpha-BHC	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U
beta-BHC	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U
delta-BHC	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U
gamma-BHC (Lindane)	0.010	U	0.010	U	0.010	U	0.074		0.068	
Heptachlor	0.010	U	0.010	U	0.010	U	0.075		0.068	
Aldrin	0.010	U	0.010	U	0.010	U	0.071		0.067	
Heptachlor epoxide	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U
Endosulfan I	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U
Dieldrin	0.020	U	0.020	U	0.020	U	0 15		0.14	
4,4'-DDE	0.020	U	0.020	U	0.020	U	0.020	U	0.020	U
Endrin	0.020	U	0.020	U	0.020	U	0.17		0.16	
Endosulfan II	0.020	U	0.020	U	0.020	U	0.020	U	0.020	U
4,4'-DDD	0 020	U	0.020	U	0.020	U	0.0070	J	0.0070	J
Endosulfan sulfate	0.020	U	0 020	U	0.020	U	0.020	U	0.020	U
4,4'-DDT	0 020	U	0.020	U	0.020	U	0.15		0.15	
Methoxychlor	0.10	U	0 10	U	0.10	U	0.10	U	0.10	U
Endrin ketone	0.020	U	0.020	U	0 020	U	0.020	U	0.020	U
Endrin aldehyde	0 020	U	0 020	U	0.020	U	0.020	U	0.020	U
alpha-Chlordane	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U
gamma-Chlordane	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U
Toxaphene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Aroclor-1016	0.20	U	0.20	U	0 20	U	0.20	U	0.20	U
Aroclor-1221	0.40	U	0.40	U	0.40	U	0.40	U	0.40	U
Aroclor-1232	0.20	U	0.20	U	0 20	U	0.20	U	0.20	U
Aroclor-1242	0.20	U	0.20	U	0.20	U	0.20	U	0 20	U
Aroclor-1248	0 20	U	0.20	U	0.20	U	0.20	U	0.20	U
Aroclor-1254	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U
Aroclor-1260	0 20	U	0 20	U	0.20	U	0 20	U	0 20	U

DISCLAIMER This package has been electronically assessed as an added service to our customer It has not been either validated or approved by Region 5 and any subsequent use by the data user is strictly at the risk of the data user. Region 5 assumes no responsibility for use of unvalidated data

Analytical Results (Qualified Data)

Case #: 30394 SDG : E00P3
Site CHEMECTO
Lab. LIBRTY
Reviewer
r

Sample Number :	E00P7		E00P8		E00P9		PBLKQI		PBLKSC	
Sampling Location	G104		G105		G106					
Matrix :	Water		Water		Water		Water		Water	
Units	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	04/15/2002		04/15/2002		04/15/2002					
Time Sampled :	11.30		11.50		12:30					
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :										
Dilution Factor :	1.0		1.0		1 0		1.0		1.0	
Pesticide/PCB Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
alpha-BHC	0.010	U	0.010	U	0.010	U	0.010	U	0.010	M
beta-BHC	0.010	U	0.010	U	0 010	U	0.010	U	0.010	M
delta-BHC	0.010	U	0.010	U	0.010	U	0.010	U	0.010	M
gamma-BHC (Lindane)	0.010	U	0.010	U	0.010	U	0.010	U	0.010	M
Heptachlor	0.010	U	0.010	U	0.010	U	0.010	U	0.010	M
Aldrin	0.010	U	0.010	U	0.010	U	0.010	U	0.010	M
Heptachlor epoxide	0.010	U	0 010	U	0.010	U	0.010	U	0.010	M
Endosulfan I	0.010	U	0 010	U	0.010	U	0.010	U	0.010	M
Dieldrin	0.020	U	0.020	U	0.020	U	0.020	U	0.020	M
4,4'-DDE	0.020	U	0.020	U	0 020	U	0.020	U	0.020	M
Endrin	0.020	U	0.020	U	0.020	U	0.020	U	0.020	M
Endosulfan II	0.020	U	0.020	U	0.020	U	0.020	U	0.020	M
4,4'-DDD	0 020	U	0.020	U	0.020	U	0.020	U	0.020	M
Endosulfan sulfate	0 020	U	0.020	U	0.020	U	0.020	U	0.020	M
4 4'-DDT	0.020	U	0.020	U	0.020	U	0.020	U	0.020	M
xychlor	0.10	U	0 10	U	0.10	U	0.10	U	0.10	M
Endrin ketone	0 020	U	0.020	U	0.020	U	0.020	U	0.020	M
Endrin aldehyde	0 020	U	0.020	U	0.020	U	0.020	U	0.020	M
alpha-Chlordane	0 010	U	0.010	U	0.010	U	0.010	U	0.010	M
gamma-Chlordane	0 010	U	0.010	U	0 010	U	0 010	U	0 010	M
Toxaphene	1 0	U	1.0	U	1.0	U	1 0	U	1 0	M
Aroclor-1016	0 20	U	0.20	U	0.20	U	0.20	U	0 20	M
Aroclor-1221	0.40	U	0 40	U	0.40	U	0.40	U	0 40	M
Aroclor-1232	0.20	U	0.20	U	0 20	U	0 20	U	0.20	M
Aroclor-1242	0.20	U	0 20	U	0.20	U	0.20	U	0.20	M
Aroclor-1248	0 20	U	0 20	U	0.20	U	0.20	U	0.20	M
Aroclor-1254	0.20	U	0 20	U	0.20	U	0.20	U	0.20	M
Aroclor-1260	0 20	U	0 20	U	0 20	U	0 20	U	0.20	M

DISCLAIMER This package has been electronically assessed as an added service to our customer It has not been either validated or approved by Region 5 and any subsequent use by the data user is strictly at the risk of the data user Region 5 assumes no responsibility for use of unvalidated data

Regional Transmittal Form

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE:

SUBJECT: Review of Data
Received for Review on 4-29-02

FROM: Stephen L. Ostrodka, Chief (SMF-4J)
Superfund Field Services Section

TO: Data User: IEPA

We have reviewed the data for the following case:

SITE NAME: CHEMETCO (IL)

CASE NUMBER: 30394 SDG NUMBER: EOOP3

Number and Type of Samples: 7 (WATER)

Sample Numbers: EOOP3-4, EOOP6-9, EOOQC

Laboratory: CompuChem Hrs for Review:

Following are our findings:

CC: Cecilia Moore
Region 5 TPO
Mail Code: SMF-4J

CompuChem
a division of Liberty Analytical Corp.

ORIGINAL

Sample Delivery Group (SDG) Cover Sheet

SDG Number E00P3

Laboratory Name	CompuChem	Laboratory Code	LIBRTY
Contract No.	68W01043	Case No.	30394
Analysis Price	$450.00	SDG Turnaround	21

EPA Sample Numbers in SDG (Listed in Numerical Order)

1)	E00P3	7)	E00Q0	13)		19)	
2)	E00P4	8)		14)		20)	
3)	E00P6	9)		15)	MS 4/17/02	21)	
4)	E00P7	10)		16)		22)	
5)	E00P8	11)		17)		23)	
6)	E00P9	12)		18)		24)	

E00P3	E00Q0
First Sample in SDG	Last Sample in SDG

04/17/02	04/17/02
First Sample Receipt Date	Last Sample Receipt Date

Note: There are a maximum of 20 **field** samples (excluding PE samples in an SDG. Attach TRs to this form in alphanumeric order (the order listed above on this form).

Signature [illegible] Date 4/17/02 21

USEPA Contract Laboratory Program
Organic Traffic Report

Case No: 30394
DAS No:
SDG No: E00P3

L

Date Shipped: 4/16/02 Carrier Name: UPS Airbill: 1Z 621 589 22 1012 0980 Shipped to: Liberty Analytical 501 Madison Avenue Cary NC 27513 (919) 379-4080	Date Received/Received by: 4/17/02 M. Stan Lab Contract No: 68W01043 Unit Price: $450.00 Transfer To: Date Received/Received By: Lab Contract No: Price:	Sampler (Signature): Bruce Everetts Bruce Everetts		
		Relinquished By: Bruce Everetts	Date / Time: 4/16-02 / 0900	Received By:
		Relinquished By:	Date / Time: 4.17.02 9:45	Received By: Joan Purdie
		Relinquished By:	Date / Time:	Received By:

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
E00P8	Potable Well/ Bruce Everetts	L/G	BNA/PEST (21), VOA (21)	5-100757 (Ice Only), 5-100758 (Ice Only), 5-100759 (Ice Only), 5-100760 (Ice Only), 5-100761 (Ice Only), 5-100762 (Ice Only), 5-100763 (Ice Only) (7)	G105	4/15/02 11:50		1-40ml broken during unpacking GJP 4.17.02
E00P9	Potable Well/ Bruce Everetts	L/G	BNA/PEST (21), VOA (21)	5-100764 (Ice Only), 5-100765 (Ice Only), 5-100766 (Ice Only), 5-100767 (Ice Only), 5-100768 (Ice Only), 5-100769 (Ice Only), 5-100770 (Ice Only) (7)	G106	4/15/02 12:30		
E00Q0	Potable Well/ Bruce Everetts	L/G	VOA (21)	5-100771 (Ice Only), 5-100772 (Ice Only) (2)	G107	4/15/02 14:00	SDG Final Sample.	

ORIGINAL

Shipment for Case Complete? Y	Sample(s) to be used for laboratory QC: E00P6	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 5°C	Chain of Custody Seal Number: 81432 - 81435
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? ✓ Shipment Iced? ✓
BNA/PEST = CLP TCL Semivolatiles and Pesticides/PC, VOA = CLP TCL Volatiles				

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Cop Contract Laboratory Analytical Services Support, 2000 Edmund Halley Dr., Reston 20191-3436 Phone 703/264-9348 Fax 703/264-9222

TR Number: 5-055166947-041602-0001

USEPA Contract Laboratory Program
Organic Traffic Report

Case No:	30394
DAS No:	
SDG No:	E00P3

L

Date Shipped: 4/16/02 Carrier Name: UPS Airbill: 1Z 621 537 22 1012 0282 Shipped to: Liberty Analytical, 501 Madison Avenue, Cary NC 27513, (919) 379-4080	Date Received/Received by: 4/17/02 M. Stan Lab Contract No: LCW01043 Unit Price: $450.00 Transfer To: Date Received/Received By: Lab Contract No: Price:	Sampler (Signature): Bruce Everetts Bruce Everetts	
		Relinquished By: Bruce Everetts	Date / Time: 4-16-02 / 0900 — Received By:
		Relinquished By:	Date / Time: 4/17/02 0945 — Received By:
		Relinquished By:	Date / Time: — Received By:

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
E00P6	Potable Well/ Bruce Everetts	L/G	BNA/PEST (21), VOA (21)	5-100729 (Ice Only), 5-100730 (Ice Only), 5-100731 (Ice Only), 5-100732 (Ice Only), 5-100733 (Ice Only), 5-100734 (Ice Only), 5-100735 (Ice Only), 5-100736 (Ice Only), 5-100737 (Ice Only), 5-100738 (Ice Only), 5-100739 (Ice Only), 5-100740 (Ice Only), 5-100741 (Ice Only), 5-100742 (Ice Only), 5-100743 (Ice Only), 5-100744 (Ice Only), 5-100745 (Ice Only), 5-100746 (Ice Only), 5-100747 (Ice Only), 5-100748 (Ice Only), 5-100749 (Ice Only) (21)	G103	4/15/02 10:45		Good
E00P7	Potable Well/ Bruce Everetts	L/G	BNA/PEST (21), VOA (21)	5-100750 (Ice Only), 5-100751 (Ice Only), 5-100752 (Ice Only), 5-100753 (Ice Only), 5-100754 (Ice Only), 5-100755 (Ice Only), 5-100756 (Ice Only) (7)	G104	4/15/02 11:30		

ORIGINAL

Shipment for Case Complete? Y	Sample(s) to be used for laboratory QC: E00P6	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 5°C	Chain of Custody Seal Number: 81432 - 81435
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? Shipment Iced?
BNA/PEST = CLP TCL Semivolatiles and Pesticides/PC, VOA = CLP TCL Volatiles				

PR provides preliminary results. Requests for preliminary resuls will increase analytical costs.

Send Copy to: Contract Laboratory Analytical Services Support, 2000 Edmund Halley Dr., Reston, VA. 20191-3436 Phone 703/264-9348 Fax 703/264-9222

TR Number: 5-055166947-041602-0001

USEPA Contract Laboratory Program
Organic Traffic Report

Case No: 30394
DAS No:
SDG No: E00P3

L

Date Shipped: 4/16/02 Carrier Name: UPS Airbill: 12 021 551 22 1002 0250 Shipped to: Liberty Analytical 501 Madison Avenue Cary NC 27513 (919) 379-4080	Date Received/Received by: 4/17/02 M. Slee Lab Contract No: 68W01043 Unit Price: $450 Transfer To: Date Received/Received By: Lab Contract No: Price:	Sampler (Signature): Bruce Everetts Bruce Everetts		
		Relinquished By: Bruce Everetts	Date / Time: 4-16-02 / 0900	Received By:
		Relinquished By:	Date / Time: 4/17/02 945	Received By:
		Relinquished By:	Date / Time:	Received By:

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
E00P3	Potable Well/ Bruce Everetts	L/G	BNA/PEST (21), VOA (21)	5-100714 (Ice Only), 5-100715 (Ice Only), 5-100716 (Ice Only), 5-100717 (Ice Only), 5-100718 (Ice Only), 5-100719 (Ice Only), 5-100720 (Ice Only) (7)	G101	4/15/02 9:30		Good
E00P4	Potable Well/ Bruce Everetts	L/G	BNA/PEST (21), VOA (21)	5-100721 (Ice Only), 5-100722 (Ice Only), 5-100723 (Ice Only), 5-100724 (Ice Only), 5-100725 (Ice Only), 5-100726 (Ice Only), 5-100727 (Ice Only) (7)	G102	4/15/02 9:30		

ORIGINAL

Shipment for Case Complete? Y	Sample(s) to be used for laboratory QC: E00P6	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 5°C	Chain of Custody Seal Number: 81432 - 81435
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? Shipment Iced?
BNA/PEST = CLP TCL Semivolatiles and Pesticides/PC, VOA = CLP TCL Volatiles				

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Contract Laboratory Analytical Services Support, 2000 Edmund Halley Dr., Reston, VA. 20191-3436 Phone 703/264-9348 Fax 703/264-9222

TR Number: 5-055166947-041602-0001

CompuChem

a division of Liberty Analytical Corporation
501 Madison Avenue
Cary, N.C. 27513
Tel: 919/379-4100 Fax: 919/379-4050

APR 29 2002

SDG NARRATIVE
CASE #30394
SDG #E00P3
CONTRACT # 68W01043

SAMPLE IDENTIFICATIONS: E00P3 E00P4 E00P6 E00P7 E00P8 E00P9 E00Q0

The seven water samples listed above were received, at 5 degrees C, with proper documentation, in sealed shipping containers on April 17, 2002. All samples were submitted for volatile, semivolatile, and pesticide-PCB analysis except E00Q0 which was submitted for volatile only analysis. The volatile samples were prepared and analyzed following Contract Laboratory Programl(CLP) Statement of Work(SOW), document OLC03.2, and this portion of the SDG narrative will only cover the volatile data. All pertinent Quality Assurance Notices are included in the narrative section, and all pertinent Laboratory Notices for Case # 30394 SDG # E00P3 are included in the sample data sections. All pH values were measured at less than 2.0, and a copy of the pH results are included in the narrative section. Analysis Holding Time(AHT) requirements were met for all samples. One vial was received broken for sample E00P8. SMO was contacted and due to the fact that sufficient volume remained for analysis, we were instructed to proceed. A copy of the e-mail accompanies this narrative.

The example calculation with all relavent formulae are found in a sheet immediately following this narrative.

The Target Compound List(TCL) analytes cis-1,2-dichloroethene, and trichloroethene were identified above the Contract Required Quantitation Limit(CRQL) in E00P9, however other than bromoform no other TCL analytes were present in the submitted samples above the CRQL.

No reportable Tentatively Identified Compounds(TICs) were present in the submitted samples.

All Bromofluorobenzene (BFB) abundance criteria were met for tunes associated to this SDG. Overall QC criteria were met for the initial, and continuing calibration standard(s) associated to this SDG
In a response to a Statement of Work(SOW) interpretation, Terry Smith, Program Manager for the Organic Contract Laboratory Program, stated that if the mass spectral interpretation specialist determines the TICs to be laboratory artifacts present in blanks, and their associated samples, there is no need to report them, and all other TICs not reported due to mass spectral interpretation specialist's assessment should be noted in the SDG narrative.
There are five general laboratory artifacts not reported on the Form 1 LCFs. There approximate retention times and origin are as follows:

4.003	minutes	methanol-d4, the solvent in which the DMCs are received from the supplier
9.395	minutes	cis-1,3-dichloropropene-d4: extra compound in the DMC solution
11.255	minutes	siloxane artifact
12.406	minutes	siloxane artifact
13.734	minutes	siloxane artifact

These are present in the majority of standards, blanks, and samples.

The deuterated monitoring compounds (DMCs) met recovery criteria in the analyses of these samples with allowable minimal failures, and all of the internal standards met retention time and response criteria in the analyses of these samples.

The associated method blank, and storage blank met all quality control criteria, and did not contain any target analytes above the CRQL with the exception of bromoform. These levels of bromoform are not believed to be sample constituents, and as noted below may be due to methanol back exchange, and as a contaminant in the DMC solution. Purging increasing amounts of the DMC solution yielded increasing amounts of bromoform.

Duplicate matrix spikes were generated from E00P6 as designated by the region, and all QC precision and accuracy criteria were met.

Manual quantitations were performed on some of the process files in the associated initial and continuing calibrations, and in samples E00P9, and E00P6MS. The reasons have been coded with explanations provided in the notice included in the narrative section of this SDG.

Low level hits of bromoform, and cis -1,3-dichloropropene are reported in the majority of samples and blanks. It is the laboratory's opinion that these his are the result of reaction of the associated DMC solution with methanol(back exchange), and may not be actual sample constituents.

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 his/her designee, as verified by the following signature.

Roy Sutton
Case Reviewer
April 25, 2002

SDG #E00P3

Example Calculation for the Volatile Fraction

Calculation of RRF

RRF=(Ax*Cis)/Ais *Cx)

Where: **Ax=Area of the characteristic ion(EICP) for the compound to be measured**
Ais= Area of the chracteristic ion(EICP) for the specific internal standard
Cis= Concentration of the internal standard
Cx=Concentration of the compound to be measured

Example: Acetone RRF from CS020418A71(08:03)

Ax=24281
Ais=99165
Cis=125
Cx=625

RRF=(24281*125)/(99165*625)
= 0.04897

Calculation of Concentration:
Concentration(ug/L)= (Ax*Is*Df)/(Ais*RRF*Vo)
Where: Ax= Area of the characteristic ion(EICP) for the compound to be measured
Ais=Area of the characteristic ion(EICP) for the internal standard
Is=Amount of the internal standard added in nanograms
RRF= The relative response factor from the continuing calibration standard
Vo=Total volume of water purged, in milliliters
Df=Dilution factor

Example: Concentration of acetone in E00P6

Ax= 1559
Ais= 83885
Is= 125
RRF= 0.04897
Vo= 25
Df= 1.0

Concentration = (1559*125*1.0)/(83885*0.04897 *25)
= 1.89
= 1.9

CompuChem

a division of Liberty Analytical Corporation
501 Madison Avenue
Cary, N.C. 27513
Tel: 919/379-4100 Fax: 919/379-4050

SDG NARRATIVE

CASE # 30394
SDG # E00P3
CONTRACT # 68W01043

SAMPLE IDENTIFICATIONS: E00P3, E00P4, E00P6, E00P7, E00P8, E00P9

The six (6) aqueous samples listed above were scheduled for the requested analyses of the semivolatile fractions. The samples were prepared and analyzed following the current Statement of Work (SOW) for Organics Analysis, Low Concentration Water, Document OLC03.2. This portion of the SDG narrative deals with the semivolatile fractions only. For the receiving information associated with these samples, please refer to the volatile SDG narrative.

Semivolatiles

Extraction and analysis holding time requirements were met for all of these samples. There were no semivolatile Target Compound List (TCL) analytes identified above the Contract Required Quantitation Limit (CRQL) in any of these samples. No Tentatively Identified Compounds (TICs) were found in any of these samples. Manual quantitations were performed on one or more of the process files associated with this SDG, including samples E00P3, E00P4, E00P6, E00P7, E00P8, and E00P9. The reasons have been coded with explanations provided in the notice included in the narrative section of the SDG. All decafluorotriphenylphosphine (DFTPP) abundance criteria were met for tunes associated to this SDG. Overall QC criteria were met for all initial and continuing calibration standards associated to this SDG. With the exceptions of E00P3, E00P4, E00P6, and E00P8, all of the deuterated monitoring compounds (DMCs) met recovery criteria in the analyses of these samples. Two DMCs failed quality control criteria in E00P3; one DMC failed quality control criteria in E00P4, E00P6, and E00P8. All of the internal standards met response and retention time criteria in the analyses of these samples. The associated method blank met all quality control criteria. The method blank contained levels of bis(2-ethylhexyl)phthalate, which were within allowable limits. No TICs were found in this method blank. E00P6 was used as the original to prepare the duplicate matrix spikes as requested. The associated duplicate matrix spikes met all advisory precision criteria. With one (1) exception, the associated duplicate matrix spikes met all advisory accuracy criteria. The recovery of the spike compound pentachlorophenol was flagged as an outlier in the matrix spike duplicate.

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 his/her designee, as verified by the following signature.

Paul T. Frankson
Manager, GC/MS SVOA
April 24, 2002

ALKANE NARRATIVE REPORT
Report date : 04/24/2030
SDG: E00P3

CompuChem

a division of Liberty Analytical Corporation
501 Madison Avenue
Cary, N.C. 27513
Tel: 919/379-4100 Fax: 919/379-4050

SDG NARRATIVE

CASE # 30394
SDG #E00P3
CONTRACT # 68W01043

SAMPLE IDENTIFICATIONS: E00P3, E00P4, E00P6, E00P7, E00P8, E00P9

The six water samples listed above were scheduled for the requested analysis of the pesticide fraction.

The samples were prepared and analyzed following the current EPA Contract Laboratory Program (CLP) Statement of Work (SOW), Document OLC03.2. This portion of the SDG narrative deals with the pesticide fraction only. For the receiving information associated with these samples, please refer to the volatile SDG narrative.

Extraction and analysis holding time requirements were met for all of these samples. No target compounds confirmed above the reporting limits in the samples.

Manual integrations were performed on one or more of the process files associated with this SDG. The reasons have been coded with explanations provided in the notice included in the narrative section of the SDG.

Overall QC criteria were met for all initial and continuing calibration standards associated to this SDG. All of the surrogates met recovery and retention time criteria in the analyses of these samples. The associated method blank met all quality control criteria. The laboratory control sample met method criteria. Duplicate matrix spikes were performed on sample E00P6 as requested and met the method 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 and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Katrina L. Travis
GC/HPLC Manager
April 24, 2002

Concentration = (Ax*Vt*Df)/(CFmp*Vi*Vx)

Ax = Response (peak area or height) of the compound to be measured.
CFmp = Calibration factor for the midpoint from initial calibration standard (area per ng).
Vt = Volume of concentrated extract (ul).
Vi = Volume of extract injected (1 ul).
Vx = Volume of water extracted (ml).
Df = Dilution Factor

CFmp = (Peak Area of the Midpoint Standard)/(mass injected (ng))
Pams = Peak Area of the Midpoint Standard
MI = Mass injected (ng)

Example: EPA Sample NO. E00P3. Analyte is Tetrachloro-m-xylene. CLPEST Column.

Pams	9224	
MI	0.02	CFmp = 461150
Ax	6019	
CFmp	461150	
Vt	2000	
Vi	1	
Vx	1000	**Concentration = 0.026104 ug/L**
Df	1	**Concentration = 0.026 ug/L**

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GC/MS VOA Batch Sheet - Water

IP 250/460/462/475/480B/483

Method: olc3

Batch #: _____

SAMPLENUM	CLIENTID	LOGINNUM	pH	Time	Date	INST #	Operator	H/T	Volume	Bottle #	Report	Comments
E00P3-1	E00P3	E00P3	1	951	4-13-2	71	2423		25ml	1	—	
E00P3-2	E00P4	E00P3	1	1025						1	—	
E00P3-3	E00P6	E00P3		1051						1	—	
E00P3-4	E00P7	E00P3	1	1117						1	—	
E00P3-5	E00P8	E00P3	1	1143						1	—	
E00P3-6	E00P9	E00P3	1	1209						1	—	
E00P3-7	E00Q0	E00P3	1	1235						1	—	
WG16915-1R	VBLKTH			945							—	
WG16915-2	VBLKTI											
WG16915-3	VBLKTJ											
WG16915-4	E00P6MS		1	1446	4-18	71	2423		25ml	2	—	
WG16915-5	E00P6MSD		1	1512						3	—	
WG16915-6	VHBLKTH			1537						1	cs	
WG16915-6R				1655	4-18	71	2423		25ml	2	✓	

HT 4/27/02

Due 5/7/02

closed

6/27/01 rmh

COMPUCHEM

Work Group Report (wk02)

18-APR-02 07:09 AM

V. K Group: WG16915

Department: 435 MS/VOA ANALYSIS **Created:** 18-APR-02

Sample	Client ID	Product	Matrix	RecvDate	Bottle#	Lab Information
E00P3-1	E00P3	VOA-OLC03.2	Water	17-APR-02		
E00P3-2	E00P4	VOA-OLC03.2	Water	17-APR-02		
E00P3-3	E00P6	VOA-OLC03.2	Water	17-APR-02		
E00P3-4	00P7	VOA-OLC03.2	Water	17-APR-02		
E00P3-5	00P8	VOA-OLC03.2	Water	17-APR-02		
E00P3-6	00P9	VOA-OLC03.2	Water	17-APR-02		
E00P3-7	00Q0	VOA-OLC03.2	Water	17-APR-02		
WG16915-1	BLKTH	VOA-OLC03.2	Water	18-APR-02		
WG16915-2	BLKTI	VOA-OLC03.2	Water	18-APR-02		
WG16915-3	BLKTJ	VOA-OLC03.2	Water	18-APR-02		
WG16915-4	00P6MS	VOA-OLC03.2	Water	18-APR-02		
WG16915-5	00P6MSD	VOA-OLC03.2	Water	18-APR-02		
WG16915-6	HBLKTH	VOA-OLC03.2	Water	18-APR-02		

Comments

E00P3-1	OLC03.2
E00P3-2	OLC03.2
E00P3-3	USE FOR QC/*OLC03.2
E00P3-4	OLC03.2
E 3-5	OLC03.2
E00P3-6	OLC03.2
E00P3-7	OLC03.2

Internal Chain of Custody

Relinquished By	Lucie Jb	Date 4-18-02	Received By	MZ	Date 4-18	Reason	Analysis
Relinquished By	MZ	Date 4-18	Received By	Ref #4	Date 4-18	Reason	Storage
Relinquished By		Date	Received By		Date	Reason	
Relinquished By		Date	Received By		Date	Reason	
Relinquished By		Date	Received By		Date	Reason	
Relinquished By		Date	Received By		Date	Reason	
Relinquished By		Date	Received By		Date	Reason	
Relinquished By		Date	Received By		Date	Reason	

11

GC and GC/MS Column and Trap Specifications Table

COLUMNS

Brand Name	Coating Material	ID (mm)	Film Thickness (um)	Length (m)
GC Laboratory				
Restek	RTX-1701	0.53	0.5	30
J & W	DB-608	0.53	0.83	30
Restek	CLPesticides	0.53	0.5	30
Restek	CLPesticides II	0.53	0.42	30
GC Volatiles Laboratory				
Restek	RTX-1	0.53	0.5	105
Restek	RTX-502.2	0.53	0.5	105
GC/MS Volatiles Laboratory				
J & W	DB-624	0.53	3.0	30/75
J & W	DB-624	0.25	1.4	60
J & W	DB-624	0.32	1.8	60
Restek	RTX-624	0.32	1.8	60
Supelco	SPB-624	0.32	1.4	60
Supelco	Equity™-624	0.53	3.0	75
Zebron	ZB-624	0.32	1.8	60
GC/MS Semivolatiles Laboratory				
Supelco	ZB-5MS	0.25	0.3	30
J & W	DB-5.625	0.32	1.0	30
J & W	DB5-MS	0.25	0.25	30
Hewlett Packard	HP5-MS	0.25	0.25	30
Optima	5-MS	0.25	0.25	30
Restek	RTX-5	0.32	1.0	30
Restek	RTX-5MS	0.25	0.25	30
HPLC Laboratory				
Supelco	Supelcosil LC-PAH	4.6	5.0	15 cm
Supelco	Discovery RP Amide C16	4.6	5.0	25 cm
Restek	Pinnacle Cyano	4.6	5.0	25 cm
Restek	Allure C18	4.6	5.0	25 cm

TRAPS

GC and GC/MS Volatiles Laboratory	
Tekmar 3	* 8 cm of 2,6-diphenylene oxide polymer (Tenax) * 8 cm of silica gel * 7 cm of coconut charcoal * 0.5 cm of silanized glass wool at each end
Tekmar 5	* 1 cm of methyl silicone packing (OV-1 coating) * 8 cm of 2,6-diphenylene oxide polymer (Tenax) * 8 cm of silica gel * 7 cm of coconut charcoal * 0.5 cm of silanized glass wool at each end
Supelco K (Vocarb3000)	* 10 cm of Carbopack B (Graphitized Carbons) * 6 cm of Carboxen 1000 (Carbon molecular sieves) * 1 cm of Carboxen 1001 (Carbon molecular sieves)

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CompuChem's Pagination Convention

As required by the current EPA CLP Statement of Work (SOW) documents, data to be delivered must be paginated (by machine or hand). In the event that the initial numbering is incorrect (a page numbered twice or a page skipped, for example), it is CompuChem's policy to add in an alphabetic suffix to a page number when necessary (e.g., 100A, 100B, etc.).

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Notification Regarding Manual Editing/Integration Flags

In so e instances, manual adjustments to the software output are necessary to provide accurate data. These manual integ ions are performed by the data reviewers, GC/MS operators, or GC chemists. An Extracted Ion Current Profil (EICP) or a GC chromatographic peak has been provided for the manual integration performed on each comp ind to demonstrate the accuracy of that process. The manual integrations are flagged on the quantitation repor n the far right column beyond the FINAL concentration for GC/MS analysis, and in the "Flags" column for GC a ysis. The manual editing/integration flags are:

M - Denotes that a manual integration has been performed for this compound. The manual integration was performed in order to provide the most accurate area count possible for the peak.

H - Denotes that a data reviewer, GC/MS operator, or GC Chemist has chosen an alternate peak within the retention time window from that chosen by the software for that compound. No manual integration is performed in choosing an alternate peak. The software still performs the integration.

MH - Denotes that an alternate peak has been chosen within the retention time window from that chosen by the software for that compound and also a manual integration of the chosen peak has been performed. The manual integration was performed in order to provide the most accurate area count possible for the peak.

L - Denotes that a data reviewer or GC/MS operator has selected an alternate library search. This is typically done when an additional tentatively identified compound (TIC) has been added to the number of peaks searched. No manual integration is performed in choosing an alternate peak. The software still performs the integration.

ML - Denotes that an alternate library search has been selected and a manual integration has also been performed. This is typically done when an additional TIC has been added and the TIC peak also required a manual integration.

The I A CLP SOW documents require additional explanations for manual editing/integration. In the accompanying raw d a packages, additional codes have been applied to the "M" flag and carry the following meanings:

M1 - The compound was initially not found by the automatic integration routine.

M2 - The compound was incorrectly integrated by the automatic integration routine.

M3 - The co-eluting compounds were incorrectly integrated by the automatic integration routine.

Thes odes will appear in the GC/MS and GC data packages.

Robert E. Meierer
Vice President

14

DATA REPORTING QUALIFIERS

On the Form I, under the column labeled "Q" for qualifier, each result is flagged with the specific data reporting qualifiers listed below, as appropriate. Up to five qualifiers may be reported on Form I for each compound. The qualifiers used are:

U : This flag indicates the compound was analyzed for but not detected. The Contract Required Quantitation Limit (CRQL), or reporting limit, will be adjusted to reflect any dilution and, for soils, the percent moisture.

J : This flag indicates an estimated value. The flag is used as detailed below:

1. When estimating a concentration for tentatively identified compounds (TICs) where a response factor of 1.0 is assumed for the TIC analyte,

2. When the mass spectral and retention time data indicate the presence of a compound that meets the volatile and semivolatile GC/MS identification criteria, and the result is less than the CRQL (or Reporting Limit) but greater than zero, and

3. When the retention time data indicate the presence of a compound that meets the pesticide/Aroclor or other GC or HPLC identification criteria, and the result is less than the CRQL (or Reporting Limit) but greater than zero. For example, if the CRQL (or Reporting Limit) is 10 µg/L, but a concentration of 3 µg/L is calculated, it is reported as 3J.

N : This flag indicates presumptive evidence of a compound. This flag is only used for TICs, where the identification is based on a mass spectral library search. For generic characterization of a TIC such as 'chlorinated hydrocarbon', the N flag is not used.

P : In the EPA's Contract Laboratory Program (CLP), this flag is used for a pesticide/Aroclor target analyte, when there is greater than a 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form I and flagged with a P.
For SW-846 GC and HPLC analyses, when the Relative Percent Difference (RPD) is greater than 40% and there is no evidence of chromatographic anomalies or interferences, then the higher of the two values is reported and flagged with a P. When the RPD is equal to or less than 40%, our policy is to also report the higher of the two values, although the choice could be a project specific issue.

DATA REPORTING QUALIFIERS (continued)

C : This flag applies to GC or HPLC results where the identification has been confirmed by GC/MS. If GC/MS confirmation was attempted but was unsuccessful, this flag is not applied; a laboratory-defined flag is used instead (see the X/Y/Z qualifier.)

B : This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates probable blank contamination and warns the data user to take appropriate action. This flag is used for a TIC as well as for a positively identified target compound. The combination of flags BU or UB is not an allowable policy. Blank contaminants are flagged with a B only when they are detected in the sample.

E : This flag identifies compounds whose concentrations exceed the upper level of the calibration range of the instrument for that specific analysis. If one or more compounds have a response greater than the upper level of the calibration range, the sample or extract will be diluted and reanalyzed. All such compounds with a response greater than the upper level of the calibration range will have the concentration flagged with an E on the Form I for the original analysis.

D : If a sample or extract is reanalyzed at a higher dilution factor, for example when the concentration of an analyte exceeds the upper calibration range, the DL suffix is appended to the sample number on the Form I for the more diluted sample, and **all** reported concentrations on that Form I are flagged with the D flag. This flag alerts data users that any discrepancies between the reported concentrations may be due to dilution of the sample or extract.

NOTE 1: The D flag is not applied to compounds that are not detected in the sample analysis i.e., compounds reported with the CRQL (or Reporting Limit) and the U flag.

NOTE 2: Separate Forms I are used for reporting the original analysis (Client Sample No. XXXXX) and the more diluted sample analysis (Client Sample No. XXXXXDL) i.e., the results from both analyses <u>are not combined</u> on a single Form I.

A : This flag indicates that a TIC is a suspected aldol-condensation product.

X/Y/Z : Other specific flags may be required to properly define the results. If used, the flags will be fully described in the SDG Narrative. The laboratory-defined flags are limited to X, Y and Z.

Melissa Stevens

From: Brown, Jessica <Jessica.Brown@dyncorp.com>
To: Alice Evans (E-mail) <aevans@compuchemlabs.com>; Melissa Stevens (E-mail) <mstevens@compuchemlabs.com>
Cc: Bob Casper (E-mail) <epa4407@epa.state.il.us>; Howard Pham (E-mail) <pham.howard@epa.gov>
Sent: Thursday, April 18, 2002 10:53 AM
Subject: Region 05 | Case 30394 | Lab LIBRTY | Issue Broken Sample | FINAL

Alice,

This is Holly Rogers. Jessica will be out of the office until Monday.

Per the Region's direction in the email below, "If there is sufficient sample volume to conduct the VOCs analyses, then please ask the lab proceed the analyses and made a note in the case narrative." Since the lab has sufficient volume for analysis, the lab should note the issue in the SDG narrative and proceed with the analysis of the samples.

If you have any other questions or problems, please let me know.

Thanks,
Holly

-----Original Message-----
From: Alice Evans [mailto:aevans@compuchemlabs.com]
Sent: Thursday, April 18, 2002 10:41 AM
To: Brown, Jessica
Subject: Re: Region 05 | Case 30394 | Lab LIBRTY | Issue Broken Sample

Jessica,

We have plenty of sample left for the Voa analysis. We normally only receive 3-40 ml vials (Voa) but in this case, we have received 5 40-ml vials. (we have 4 now for the sample listed below).

Thanks,
Alice
Alice Evans
CompuChem/Liberty
501 S. Madison Ave
Cary, NC 27513
919-379-4080

----- Original Message -----
From: Brown, Jessica <Jessica.Brown@dyncorp.com>
To: Alice Evans (E-mail) <aevans@compuchemlabs.com>; Melissa Stevens (E-mail) <mstevens@compuchemlabs.com>
Sent: Thursday, April 18, 2002 10:20 AM
Subject: Region 05 | Case 30394 | Lab LIBRTY | Issue Broken Sample

Alice,

> This is Holly Rogers. Jessica is out of the office until Monday.
>
> Following is the response from Region 9 regarding the broken bottle for
> sample E00P8 for Case 30394. The Region would like to know if the lab has
> sufficient volume for analysis.
>
> Please let me know as soon as possible.
>
> Thanks.
> Holly
>
> -----Original Message-----
> From: Pham.Howard@epamail.epa.gov [mailto:Pham.Howard@epamail.epa.gov]
> Sent: Wednesday, April 17, 2002 5:18 PM
> To: Brown, Jessica
> Subject: Re: Region 05 | Case 30394 | Lab LIBRTY | Issue Broken Sample
>
> Hi Holly,
>
> If there is sufficient sample volume to conduct the VOCs analyses, then
> please ask the lab proceed the analyses and made a note in the case
> narrative.
>
> Thanks,
>
> Howard Pham
>
> From: "Brown, Jessica"<Jessica.Brown@dyncorp.com>
>
> To: Howard Pham/R5/USEPA/US@EPA
> cc: "Bob Casper (E-mail)" <epa4407@epa.state.il.us>
> Subject: Region 05 | Case 30394 | Lab LIBRTY | Issue Broken Sample
>
> 04/17/2002 03:46 PM
>
>
> Bob and Howard,
>
> This is Holly Rogers. Jessica is out of the office until Monday.
>
> Following is an email from LIBRTY regarding Case 30394, sample E00P8. One
> of the VOA vials for this sample was broken when the lab was unpacking the
> cooler. The lab has 4 VOA vials remaining for this sample. The lab has
> attached a copy of the TR for this sample.
>
> Please advise the lab how to proceed.
>
> Thanks,
> Holly
>
> -----Original Message-----

> From: Melissa Stevens [mailto:mstevens@compuchemlabs.com]
> Sent: Wednesday, April 17, 2002 4:42 PM
> To: Brown, Jessica
> Subject: 30394
>
> Hi Jessica,
> One of the voa vials for E00P8 was broken this morning while
> unpacking. The sampler sent 5 vials, the lab has 4 voa vials left for
> this ID. See attachment.
>
> Melissa Stevens
> EPA Coordinator
> (919) 379-4081
> CompuChem a division of Liberty Analytical
> www.compuchemlabs.com(See attached file: 30394.pdf)
>
>
>

2LCA

LOW CONCENTRATION WATER VOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30394 Client No.: SDG No.: E00P3

	EPA SAMPLE NO.	VDMC1 (VCL) #	VDMC2 (CLA) #	VDMC3 (DCE) #	VDMC4 (BUT) #	VDMC5 (CLF) #	VDMC6 (DCA) #	VDMC7 (BEN) #
01	VBLKTH	98	90	74	132	92	92	96
02	E00P3	100	94	74	90	92	94	90
03	E00P4	94	96	76	130	88	104	96
04	E00P6	98	92	74	140	90	102	88
05	E00P7	98	94	74	124	94	100	88
06	E00P8	98	94	76	128	90	98	94
07	E00P9	96	92	74	136	98	106	88
08	E00Q0	102	94	74	144	98	104	94
09	E00P6MS	96	88	96	134	84	90	98
10	E00P6MSD	108	104	116	140	106	114	96
11	VHBLKTH	102	98	78	128	98	104	88
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								

			QC LIMITS
VDMC1	(VCL)	= Vinyl Chloride-d3	(49-138)
VDMC2	(CLA)	= Chloroethane-d5	(60-126)
VDMC3	(DCE)	= 1,1-Dichloroethene-d2	(65-130)
VDMC4	(BUT)	= 2-Butanone-d5	(42-171)
VDMC5	(CLF)	= Chloroform-d	(80-123)
VDMC6	(DCA)	= 1,2-dichloroethane-d4	(78-129)
VDMC7	(BEN)	= Benzene-d6	(78-121)

Column to be used to flag recovery values
* Values outside of contract required QC limits

2LCB

LOW CONCENTRATION WATER VOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30394 Client No.: SDG No.: E00P3

	EPA SAMPLE NO.	VDMC8 (DPA) #	VDMC9 (TOL) #	VDMC10 (TDP) #	VDMC11 (HEX) #	VDMC12 (BRF) #	VDMC13 (TCA) #	VDMC14 (DCZ) #	TOT OUT
01	VBLKTH	92	94	84	90	80	80	94	0
02	E00P3	90	92	74*	68	96	76	94	1
03	E00P4	96	94	86	96	108	88	98	0
04	E00P6	86	88	88	90	102	86	94	0
05	E00P7	90	90	88	68	100	86	92	0
06	E00P8	98	92	92	70	92	88	98	0
07	E00P9	94	92	84	82	110	88	96	0
08	E00Q0	94	96	92	84	100	84	100	0
09	E00P6MS	96	88	86	82	112	82	94	0
10	E00P6MSD	100	96	100	78	114	92	102	0
11	VHBLKTH	90	90	86	72	96	86	90	0
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			QC LIMITS
VDMC8	(DPA)	= 1,2-Dichloropropane-d6	(84-123)
VDMC9	(TOL)	= Toluene-d8	(77-120)
VDMC10	(TDP)	= trans-1,3-Dichloropropene-d4	(80-128)
VDMC11	(HEX)	= 2-Hexanone-d5	(37-169)
VDMC12	(BRF)	= Bromoform-d	(76-135)
VDMC13	(TCA)	= 1,1,2,2-Tetrachloroethane-d2	(75-131)
VDMC14	(DCZ)	= 1,2-Dichlorobenzene-d4	(50-150)

Column to be used to flag recovery values
* Values outside of contract required QC limits

3LCA
LOW CONCENTRATION WATER VOLATILE
MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30394 Client No.: SDG No.: E00P3

Matrix Spike - EPA Sample No.: E00P6

COMPOUND	SPIKE ADDED (UG/L)	SAMPLE CONCENTRATION (UG/L)	MS CONCENTRATION (UG/L)	MS % REC #	QC. LIMITS REC.
1,1-Dichloroethene	5.0	0.0	4.6	92	61-145
Benzene	5.0	0.0	5.2	104	76-127
Trichloroethene	5.0	0.0	4.9	98	71-120
Toluene	5.0	0.0	4.7	94	76-125
Chlorobenzene	5.0	0.0	4.8	96	75-130

COMPOUND	SPIKE ADDED (UG/L)	MSD CONCENTRATION (UG/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	5.0	5.3	106	14	14	61-145
Benzene	5.0	4.9	98	6	11	76-127
Trichloroethene	5.0	4.9	98	0	14	71-120
Toluene	5.0	5.1	102	8	13	76-125
Chlorobenzene	5.0	5.3	106	10	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:

4LCA
LOW CONCENTRATION WATER
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLKTH

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30394 Client No.: SDG No.: E00P3

Lab Sample ID: WG16915-1 Date Analyzed: 04/18/2002

Lab File ID: WG16915-1RA71 Time Analyzed: 0915

Instrument ID: 5972HP71

GC Column: SPB-624 ID: 0.32(MM) Length: 60.0(M)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLE ANALYSES:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	E00P3	E00P3-1	E00P3-1A71	0959
02	E00P4	E00P3-2	E00P3-2A71	1025
03	E00P6	E00P3-3	E00P3-3A71	1051
04	E00P7	E00P3-4	E00P3-4A71	1117
05	E00P8	E00P3-5	E00P3-5A71	1143
06	E00P9	E00P3-6	E00P3-6A71	1209
07	E00Q0	E00P3-7	E00P3-7A71	1235
08	E00P6MS	WG16915-4	WG16915-4A71	1446
09	E00P6MSD	WG16915-5	WG16915-5A71	1512
10	VHBLKTH	WG16915-6	WG16915-6RA7	1655
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COMMENTS:

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1LCA
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E00P3

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30394 Client No.: SDG No.: E00P3

Lab Sample ID: E00P3-1 Date Received: 04/17/2002

Lab File ID: E00P3-1A71 Date Analyzed: 04/18/2002

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: SPB-624 ID: 0.32(MM) Length: 60.0(M)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon Disulfide	0.50	U
79-20-9	Methyl Acetate	0.50	U
75-09-2	Methylene Chloride	0.16	JB
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-Butyl Ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U

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LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E00P3

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30394 Client No.: SDG No.: E00P3

Lab Sample ID: E00P3-1 Date Received: 04/17/2002

Lab File ID: E00P3-1A71 Date Analyzed: 04/18/2002

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: SPB-624 ID: 0.32(MM) Length: 60.0(M)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.11	JB
108-10-1	4-Methyl-2-Pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (Total)	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	B
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-Chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

1LCF
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00P3

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30394 Client No.: SDG No.: E00P3

Lab Sample ID: E00P3-1 Date Received: 04/17/2002

Lab File ID: E00P3-1A71 Date Analyzed: 04/18/2002

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: SPB-624 ID: 0.32(MM) Length: 60.0(M)

Number TICs found: 0

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (UG/L)	Q
01					
02					
03					
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LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E00P4

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30394 Client No.: SDG No.: E00P3

Lab Sample ID: E00P3-2 Date Received: 04/17/2002

Lab File ID: E00P3-2A71 Date Analyzed: 04/18/2002

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: SPB-624 ID: 0.32(MM) Length: 60.0(M)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon Disulfide	0.50	U
79-20-9	Methyl Acetate	0.50	U
75-09-2	Methylene Chloride	0.18	J
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-Butyl Ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U

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LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E00P4

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30394 Client No.: SDG No.: E00P3

Lab Sample ID: E00P3-2 Date Received: 04/17/2002

Lab File ID: E00P3-2A71 Date Analyzed: 04/18/2002

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: SPB-624 ID: 0.32(MM) Length: 60.0(M)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.13	JB
108-10-1	4-Methyl-2-Pentanone	5.0	U
108-88-3	Toluene	0.10	JB
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (Total)	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.39	JB
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-Chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

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LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00P4

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30394 Client No.: SDG No.: E00P3

Lab Sample ID: E00P3-2 Date Received: 04/17/2002

Lab File ID: E00P3-2A71 Date Analyzed: 04/18/2002

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: SPB-624 ID: 0.32(MM) Length: 60.0(M)

Number TIs found: 0

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (UG/L)	Q
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02					
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DATA SHEET

EPA SAMPLE NO.

E00P6

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30394 Client No.: SDG No.: E00P3

Lab Sample ID: E00P3-3 Date Received: 04/17/2002

Lab File ID: E00P3-3A71 Date Analyzed: 04/18/2002

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: SPB-624 ID: 0.32(MM) Length: 60.0(M)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	1.9	JB
75-15-0	Carbon Disulfide	0.50	U
79-20-9	Methyl Acetate	0.50	U
75-09-2	Methylene Chloride	0.15	JB
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-Butyl Ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U

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LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E00P6

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30394 Client No.: SDG No.: E00P3

Lab Sample ID: E00P3-3 Date Received: 04/17/2002

Lab File ID: E00P3-3A71 Date Analyzed: 04/18/2002

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: SPB-624 ID: 0.32(MM) Length: 60.0(M)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.14	JB
108-10-1	4-Methyl-2-Pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (Total)	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.48	JB
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-Chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

1LCF
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00P6

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30394 Client No.: SDG No.: E00P3

Lab Sample ID: E00P3-3 Date Received: 04/17/2002

Lab File ID: E00P3-3A71 Date Analyzed: 04/18/2002

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: SPB-624 ID: 0.32(MM) Length: 60.0(M)

Number TICs found: 0

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (UG/L)	Q
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LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E00P6MS

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30394 Client No.: SDG No.: E00P3

Lab Sample ID: WG16915-4 Date Received: 04/17/2000

Lab File ID: WG16915-4A71 Date Analyzed: 04/18/2002

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: SPB-624 ID: 0.32(MM) Length: 60.0(M)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	4.6	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon Disulfide	0.50	U
79-20-9	Methyl Acetate	0.50	U
75-09-2	Methylene Chloride	0.26	J
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-Butyl Ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	5.2	
107-06-2	1,2-Dichloroethane	0.50	U

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LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E00P6MS

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30394 Client No.: SDG No.: E00P3

Lab Sample ID: WG16915-4 Date Received: 04/17/2000

Lab File ID: WG16915-4A71 Date Analyzed: 04/18/2002

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: SPB-624 ID: 0.32(MM) Length: 60.0(M)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
79-01-6	Trichloroethene	4.9	
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.16	JB
108-10-1	4-Methyl-2-Pentanone	5.0	U
108-88-3	Toluene	4.7	B
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	4.8	
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (Total)	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.36	JB
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-Chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

1LCA
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E00P6MSD

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30394 Client No.: SDG No.: E00P3

Lab Sample ID: WG16915-5 Date Received: 04/17/2002

Lab File ID: WG16915-5A71 Date Analyzed: 04/18/2002

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column SPB-624 ID: 0.32(MM) Length: 60.0(M)

CAS NO	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
75-71-	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	5.3	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	1.6	JB
75-15-0	Carbon Disulfide	0.50	U
79-20-9	Methyl Acetate	0.50	U
75-09-2	Methylene Chloride	0.26	J
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-Butyl Ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	4.9	
107-06-2	1,2-Dichloroethane	0.50	U

1LCB
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E00P6MSD

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30394 Client No.: SDG No.: E00P3

Lab Sample ID: WG16915-5 Date Received: 04/17/2002

Lab File ID: WG16915-5A71 Date Analyzed: 04/18/2002

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: SPB-624 ID: 0.32(MM) Length: 60.0(M)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
79-01-6	Trichloroethene	4.9	
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.13	JB
108-10-1	4-Methyl-2-Pentanone	5.0	U
108-88-3	Toluene	5.1	B
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	U
24-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	5.3	
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (Total)	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.52	B
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-Chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

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LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E00P7

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30394 Client No.: SDG No.: E00P3

Lab Sample ID: E00P3-4 Date Received: 04/17/2002

Lab File ID: E00P3-4A71 Date Analyzed: 04/18/2002

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: SPB-624 ID: 0.32(MM) Length: 60.0(M)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon Disulfide	0.50	U
79-20-9	Methyl Acetate	0.50	U
75-09-2	Methylene Chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-Butyl Ether	0.50	U
75-34-3	1,1-Dichloroethane	0.46	J
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U

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LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E00P7

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30394 Client No.: SDG No.: E00P3

Lab Sample ID: E00P3-4 Date Received: 04/17/2002

Lab File ID: E00P3-4A71 Date Analyzed: 04/18/2002

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: SPB-624 ID: 0.32(MM) Length: 60.0(M)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.12	JB
108-10-1	4-Methyl-2-Pentanone	5.0	U
108-88-3	Toluene	0.12	JB
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (Total)	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.48	JB
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.32	J
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-Chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

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LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00P7

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30394 Client No.: SDG No.: E00P3

Lab Sample ID: E00P3-4 Date Received: 04/17/2002

Lab File ID: E00P3-4A71 Date Analyzed: 04/18/2002

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: SPB-624 ID: 0.32(MM) Length: 60.0(M)

Number TICs found: 0

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (UG/L)	Q
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FORM I LCV-TIC OLC03.2

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LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E00P8

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30394 Client No.: SDG No.: E00P3

Lab Sample ID: E00P3-5 Date Received: 04/17/2002

Lab File ID: E00P3-5A71 Date Analyzed: 04/18/2002

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: SPB-624 ID: 0.32(MM) Length: 60.0(M)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	3.0	JB
75-15-0	Carbon Disulfide	0.50	U
79-20-9	Methyl Acetate	0.50	U
75-09-2	Methylene Chloride	0.33	JB
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-Butyl Ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U

1LCB
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E00P8

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30394 Client No.: SDG No.: E00P3

Lab Sample ID: E00P3-5 Date Received: 04/17/2002

Lab File ID: E00P3-5A71 Date Analyzed: 04/18/2002

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: SPB-624 ID: 0.32(MM) Length: 60.0(M)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.14	JB
108-10-1	4-Methyl-2-Pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (Total)	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.99	B
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-Chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

1LCF
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00P8

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30394 Client No.: SDG No.: E00P3

Lab Sample ID: E00P3-5 Date Received: 04/17/2002

Lab File ID: E00P3-5A71 Date Analyzed: 04/18/2002

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: SPB-624 ID: 0.32(MM) Length: 60.0(M)

Number TICs found: 0

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (UG/L)	Q
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FORM I LCV-TIC OLC03.2

1LCA
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E00P9

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30394 Client No.: SDG No.: E00P3

Lab Sample ID: E00P3-6 Date Received: 04/17/2002

Lab File ID: E00P3-6A71 Date Analyzed: 04/18/2002

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: SPB-624 ID: 0.32(MM) Length: 60.0(M)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	1.5	JB
75-15-0	Carbon Disulfide	0.50	U
79-20-9	Methyl Acetate	0.50	U
75-09-2	Methylene Chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-Butyl Ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	2.7	
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.21	J
107-06-2	1,2-Dichloroethane	0.50	U

1LCB
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E00P9

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30394 Client No.: SDG No.: E00P3

Lab Sample ID: E00P3-6 Date Received: 04/17/2002

Lab File ID: E00P3-6A71 Date Analyzed: 04/18/2002

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column SPB-624 ID: 0.32(MM) Length: 60.0(M)

CAS NO	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
79-01-	Trichloroethene	5.3	
108-87-	Methylcyclohexane	0.50	U
78-87-	1,2-Dichloropropane	0.50	U
75-27-	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.14	JB
108-10-1	4-Methyl-2-Pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	U
24-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (Total)	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.44	JB
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-	1,4-Dichlorobenzene	0.50	U
95-50-	1,2-Dichlorobenzene	0.50	U
96-12-	1,2-Dibromo-3-Chloropropane	0.50	U
120-82-	1,2,4-Trichlorobenzene	0.50	U
87-61-	1,2,3-Trichlorobenzene	0.50	U

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LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00P9

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30394 Client No.: SDG No.: E00P3

Lab Sample ID: E00P3-6 Date Received: 04/17/2002

Lab File ID: E00P3-6A71 Date Analyzed: 04/18/2002

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: SPB-624 ID: 0.32(MM) Length: 60.0(M)

Number TICs found: 0

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (UG/L)	Q
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FORM I LCV-TIC OLC03.2

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LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E00Q0

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30394 Client No.: SDG No.: E00P3

Lab Sample ID: E00P3-7 Date Received: 04/17/2002

Lab File ID: E00P3-7A71 Date Analyzed: 04/18/2002

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: SPB-624 ID: 0.32(MM) Length: 60.0(M)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	2.6	JB
75-15-0	Carbon Disulfide	0.50	U
79-20-9	Methyl Acetate	0.50	U
75-09-2	Methylene Chloride	0.30	JB
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-Butyl Ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U

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LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E00Q0

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30394 Client No.: SDG No.: E00P3

Lab Sample ID: E00P3-7 Date Received: 04/17/2002

Lab File ID: E00P3-7A71 Date Analyzed: 04/18/2002

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: SPB-624 ID: 0.32(MM) Length: 60.0(M)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.13	JB
108-10-1	4-Methyl-2-Pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (Total)	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.86	B
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-Chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

1LCF
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00Q0

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30394 Client No.: SDG No.: E00P3

Lab Sample ID: E00P3-7 Date Received: 04/17/2002

Lab File ID: E00P3-7A71 Date Analyzed: 04/18/2002

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: SPB-624 ID: 0.32(MM) Length: 60.0(M)

Number TICs found: 0

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (UG/L)	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
1					
1.					
12					
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FORM I LCV-TIC OLC03.2

1LCA
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

VBLKTH

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30394 Client No.: SDG No.: E00P3

Lab Sample ID: WG16915-1 Date Received: _____

Lab File ID: WG16915-1RA71 Date Analyzed: 04/18/2002

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: SPB-624 ID: 0.32(MM) Length: 60.0(M)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	3.8	J
75-15-0	Carbon Disulfide	0.50	U
79-20-9	Methyl Acetate	0.50	U
75-09-2	Methylene Chloride	0.17	J
56-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-Butyl Ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U

1LCB
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

VBLKTH

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30394 Client No.: SDG No.: E00P3

Lab Sample ID: WG16915-1 Date Received: _____

Lab File ID: WG16915-1RA71 Date Analyzed: 04/18/2002

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: SPB-624 ID: 0.32(MM) Length: 60.0(M)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.13	J
108-10-1	4-Methyl-2-Pentanone	5.0	U
108-88-3	Toluene	0.12	J
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (Total)	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.88	
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-Chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

1LCF
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKTH

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30394 Client No.: SDG No.: E00P3

Lab Sample ID: WG16915-1 Date Received: _____

Lab File ID: WG16915-1RA71 Date Analyzed: 04/18/2002

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: SPB-624 ID: 0.32(MM) Length: 60.0(M)

Number TICs found: 0

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (UG/L)	Q
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FORM I LCV-TIC OLC03.2

1LCA
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

VHBLKTH

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30394 Client No.: SDG No.: E00P3

Lab Sample ID: WG16915-6 Date Received: _____

Lab File ID: WG16915-6RA71 Date Analyzed: 04/18/2002

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: SPB-624 ID: 0.32(MM) Length: 60.0(M)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon Disulfide	0.50	U
79-20-9	Methyl Acetate	0.50	U
75-09-2	Methylene Chloride	0.39	J
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-Butyl Ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U

1LCB
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

VHBLKTH

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30394 Client No.: SDG No.: E00P3

Lab Sample ID: WG16915-6 Date Received: _____

Lab File ID: WG16915-6RA71 Date Analyzed: 04/18/2002

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: SPB-624 ID: 0.32(MM) Length: 60.0(M)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.15	JB
108-10-1	4-Methyl-2-Pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	U
24-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (Total)	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.75	B
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-Chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

1LCF
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VHBLKTH

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30394 Client No.: SDG No.: E00P3

Lab Sample ID: WG16915-6 Date Received: _____

Lab File ID: WG16915-6RA71 Date Analyzed: 04/18/2002

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: SPB-624 ID: 0.32(MM) Length: 60.0(M)

Number TICs found: 0

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (UG/L)	Q
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FORM I LCV-TIC OLC03.2

2LCC

LOW CONCENTRATION WATER SEMIVOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30394 Client No.: SDG No.: E00P3

	EPA SAMPLE NO.	SDMC1 (PHL) #	SDMC2 (BCE) #	SDMC3 (2CP) #	SDMC4 (4MP) #	SDMC5 (NBZ) #	SDMC6 (2NP) #	SDMC7 (DCP) #	SDMC8 (4CA) #
01	SBLKQF	63	65	65	68	68	68	65	60
02	E00P3	93	95*	93	93	93	93	88	83*
03	E00P4	78	80	80	73	80	78	75	75*
04	E00P6	80	80	80	78	80	83	78	80*
05	E00P6MS	78	85	78	80	78	80	75	78*
06	E00P6MSD	75	80	75	75	78	75	70	73*
07	E00P7	68	68	68	68	68	68	65	68
08	E00P8	73	75	73	73	73	70	68	73*
09	E00P9	73	73	73	70	73	68	68	70
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			QC LIMITS
SDMC1	(PHL)	= Phenol-d5	(10-110)
SDMC2	(BCE)	= bis-(2-Chloroethyl)ether-d8	(41- 94)
SDMC3	(2CP)	= 2-Chlorophenol-d4	(33-110)
SDMC4	(4MP)	= 4-Methylphenol-d8	(38- 95)
SDMC5	(NBZ)	= Nitrobenzene-d5	(35-114)
SDMC6	(2NP)	= 2-Nitrophenol-d4	(40-106)
SDMC7	(DCP)	= 2,4-Dichlorophenol-d3	(42- 98)
SDMC8	(4CA)	= 4-Chloroaniline-d4	(8- 70)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D DMC diluted out

2LCD

LOW CONCENTRATION WATER SEMIVOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30394 Client No.: SDG No.: E00P3

==	EPA SAMPLE NO.	SDMC9 (DMP)#	SDMC10 (ACY)#	SDMC11 (4NP)#	SDMC12 (FLR)#	SDMC13 (NMP)#	SDMC14 (ANC)#	SDMC15 (PYR)#	SDMC16 (BAP)#	TOT OUT
01	SBLKQF	83	68	78	65	53	80	95	90	0
02	E00P3	90	85	88	80	68	88	103	93	2
03	E00P4	83	78	80	73	68	85	103	88	1
04	E00P6	83	78	78	73	60	80	98	83	1
05	E00P6MS	83	78	80	73	65	75	93	80	1
06	E00P6MSD	80	73	85	65	68	75	93	83	1
07	E00P7	78	70	70	68	55	70	88	75	0
08	E00P8	83	75	75	70	60	90	105	93	1
09	E00P9	73	68	70	65	60	78	90	80	0
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		QC LIMITS
SDMC9 (DMP)	= Dimethylphthalate-d6	(62-102)
SDMC10 (ACY)	= Acenaphthylene-d8	(49- 98)
SDMC11 (4NP)	= 4-Nitrophenol-d4	(9-181)
SDMC12 (FLR)	= Fluorene-d10	(50- 97)
SDMC13 (NMP)	= 4,6-Dinitro-2-methylphenol-d2	(53-153)
SDMC14 (ANC)	= Anthracene-d10	(55-116)
SDMC15 (PYR)	= Pyrene-d10	(47-114)
SDMC16 (BAP)	= Benzo(a)pyrene-d12	(54-120)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D DMC diluted out

3LCB
LOW CONCENTRATION WATER SEMIVOLATILE
MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30394 Client No.: SDG No.: E00P3

Matrix Spike - EPA Sample No.: E00P6

COMPOUND	SPIKE ADDED (UG/L)	SAMPLE CONCENTRATION (UG/L)	MS CONCENTRATION (UG/L)	MS % REC #	QC. LIMITS REC.
Phenol	80	0.0	58	73	12-110
2-Chlorophenol	80	0.0	59	74	27-123
N-Nitroso-di-n-prop.(1)	20	0.0	15	75	41-116
4-Chloro-3-methylphenol	80	0.0	59	74	23- 97
Acenaphthene	20	0.0	15	75	46-118
4-Nitrophenol	80	0.0	52	65	10- 80
2,4-Dinitrotoluene	20	0.0	14	70	24- 96
Pentachlorophenol	80	0.0	78	98	9-103
Pyrene	20	0.0	18	90	26-127

COMPOUND	SPIKE ADDED (UG/L)	MSD CONCENTRATION (UG/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	80	57	71	3	42	12-110
2-Chlorophenol	80	59	74	0	40	27-123
N-Nitroso-di-n-prop.(1)	20	14	70	7	38	41-116
4-Chloro-3-methylphenol	80	57	71	4	42	23- 97
Acenaphthene	20	14	70	7	31	46-118
4-Nitrophenol	80	61	76	16	50	10- 80
2,4-Dinitrotoluene	20	15	75	7	38	24- 96
Pentachlorophenol	80	86	108*	10	50	9-103
Pyrene	20	19	95	5	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: 1 out of 18 outside limits

COMMENTS:

4LCB
LOW CONCENTRATION WATER
SEMIVOLATILE METHOD BlANK SUMMARY

EPA SAMPLE NO.

SBLKQF

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30394 Client No.: SDG No.: E00P3

Lab Sample ID: WG16924-1 Date Extracted: 04/18/2002

Lab File ID: WG16924-1A70 Date Analyzed: 04/19/2002

Instrument ID: 5972HP70 Time Analyzed: 1631

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLE ANALYSES:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	E00P3	E00P3-1	E00P3-1A70	04/19/2002
02	E00P4	E00P3-2	E00P3-2A70	04/19/2002
03	E00P6	E00P3-3	E00P3-3A70	04/19/2002
04	E00P6MS	WG16924-3	WG16924-3A70	04/19/2002
05	E00P6MSD	WG16924-4	WG16924-4A70	04/19/2002
06	E00P7	E00P3-4	E00P3-4A70	04/19/2002
07	E00P8	E00P3-5	E00P3-5A70	04/19/2002
08	E00P9	E00P3-6	E00P3-6A70	04/20/2002
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COMMENTS:

FORM IV LCSV OLC03.2

1LCC
LOW CONCENTRATION WATER SEMIVOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E00P3

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30394 Client No.: SDG No.: E00P3

Lab Sample ID: E00P3-1 Date Received: 04/17/2002

Lab File ID: E00P3-1A70 Date Extracted: 04/18/2002

Sample Volume: 1000(ML) Date Analyzed: 04/19/2002

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

Injection Volume: 1.0(UL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
100-52-7	Benzaldehyde	5.0	U
108-95-2	Phenol	5.0	U
111-44-4	bis(2-Chloroethyl)ether	5.0	U
95-57-8	2-Chlorophenol	5.0	U
95-48-7	2-Methylphenol	5.0	U
108-60-1	2,2'-oxybis(1-Chloropropane)	5.0	U
98-86-2	Acetophenone	5.0	U
106-44-5	4-Methylphenol	5.0	U
621-64-7	N-Nitroso-di-n-propylamine	5.0	U
67-72-1	Hexachloroethane	5.0	U
8-95-3	Nitrobenzene	5.0	U
78-59-1	Isophorone	5.0	U
88-75-5	2-Nitrophenol	5.0	U
105-67-9	2,4-Dimethylphenol	5.0	U
111-91-1	bis(2-Chloroethoxy)methane	5.0	U
120-83-2	2,4-Dichlorophenol	5.0	U
91-20-3	Naphthalene	5.0	U
106-47-8	4-Chloroaniline	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
105-60-2	Caprolactam	5.0	U
59-50-7	4-Chloro-3-methylphenol	5.0	U
91-57-6	2-Methylnaphthalene	5.0	U
77-47-4	Hexachlorocyclopentadiene	5.0	U
88-06-2	2,4,6-Trichlorophenol	5.0	U
95-95-4	2,4,5-Trichlorophenol	20	U
92-52-4	1,1'-Biphenyl	5.0	U
91-58-7	2-Chloronaphthalene	5.0	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5.0	U
606-20-2	2,6-Dinitrotoluene	5.0	U
208-96-8	Acenaphthylene	5.0	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5.0	U

1LCD
LOW CONCENTRATION WATER SEMIVOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E00P3

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30394 Client No.: SDG No.: E00P3

Lab Sample ID: E00P3-1 Date Received: 04/17/2002

Lab File ID: E00P3-1A70 Date Extracted: 04/18/2002

Sample Volume: 1000(ML) Date Analyzed: 04/19/2002

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

Injection Volume: 1.0(UL)

CAS NO	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5.0	U
121-14-2	2,4-Dinitrotoluene	5.0	U
84-66-2	Diethylphthalate	5.0	U
86-73-7	Fluorene	5.0	U
7005-72-3	4-Chlorophenyl-phenylether	5.0	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-nitrosodiphenylamine (1)	5.0	U
95-94-3	1,2,4,5 Tetrachlorobenzene	5.0	U
101-55-3	4-Bromophenyl-phenylether	5.0	U
118-74-1	Hexachlorobenzene	5.0	U
1912-24-9	Atrazine	5.0	U
87-86-5	Pentachlorophenol	5.0	U
85-01-8	Phenanthrene	5.0	U
120-12-7	Anthracene	5.0	U
84-74-2	Di-n-butylphthalate	5.0	U
206-44-0	Fluoranthene	5.0	U
129-00-0	Pyrene	5.0	U
85-68-7	Butylbenzylphthalate	5.0	U
91-94-1	3,3'-Dichlorobenzidine	5.0	U
56-55-3	Benzo(a)anthracene	5.0	U
218-01-9	Chrysene	5.0	U
117-81-7	bis(2-Ethylhexyl)phthalate	5.0	U
117-84-0	Di-n-octylphthalate	5.0	U
205-99-2	Benzo(b)fluoranthene	5.0	U
207-08-9	Benzo(k)fluoranthene	5.0	U
50-32-8	Benzo(a)pyrene	5.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	5.0	U
53-70-3	Dibenzo(a,h)anthracene	5.0	U
191-24-2	Benzo(g,h,i)perylene	5.0	U

(1) - Cannot be separated from Diphenylamine

1LCG
LOW CONCENTRATION WATER SEMIVOLATILE ORGANICS ANALYSIS
DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00P3

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30394 Client No.: SDG No.: E00P3

Lab Sample ID: E00P3-1 Date Received: 04/17/2002

Lab File ID: E00P3-1A70 Date Extracted: 04/18/2002

Sample Volume: 1000(ML) Date Analyzed: 04/19/2002

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

Injection Volume: 1.0(UL)

Number TICs found: 0

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (UG/L)	Q
01					
02					
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FORM I LCSV-TIC OLC03.2

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LOW CONCENTRATION WATER SEMIVOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E00P4

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30394 Client No.: SDG No.: E00P3

Lab Sample ID: E00P3-2 Date Received: 04/17/2002

Lab File ID: E00P3-2A70 Date Extracted: 04/18/2002

Sample Volume: 1000(ML) Date Analyzed: 04/19/2002

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

Injection Volume: 1.0(UL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
100-52-7	Benzaldehyde	5.0	U
108-95-2	Phenol	5.0	U
111-44-4	bis(2-Chloroethyl)ether	5.0	U
95-57-8	2-Chlorophenol	5.0	U
95-48-7	2-Methylphenol	5.0	U
108-60-1	2,2'-oxybis(1-Chloropropane)	5.0	U
98-86-2	Acetophenone	5.0	U
106-44-5	4-Methylphenol	5.0	U
621-64-7	N-Nitroso-di-n-propylamine	5.0	U
67-72-1	Hexachloroethane	5.0	U
98-95-3	Nitrobenzene	5.0	U
78-59-1	Isophorone	5.0	U
88-75-5	2-Nitrophenol	5.0	U
105-67-9	2,4-Dimethylphenol	5.0	U
111-91-1	bis(2-Chloroethoxy)methane	5.0	U
120-83-2	2,4-Dichlorophenol	5.0	U
91-20-3	Naphthalene	5.0	U
106-47-8	4-Chloroaniline	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
105-60-2	Caprolactam	5.0	U
59-50-7	4-Chloro-3-methylphenol	5.0	U
91-57-6	2-Methylnaphthalene	5.0	U
77-47-4	Hexachlorocyclopentadiene	5.0	U
88-06-2	2,4,6-Trichlorophenol	5.0	U
95-95-4	2,4,5-Trichlorophenol	20	U
92-52-4	1,1'-Biphenyl	5.0	U
91-58-7	2-Chloronaphthalene	5.0	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5.0	U
606-20-2	2,6-Dinitrotoluene	5.0	U
208-96-8	Acenaphthylene	5.0	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5.0	U

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LOW CONCENTRATION WATER SEMIVOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E00P4

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30394 Client No.: SDG No.: E00P3

Lab Sample ID: E00P3-2 Date Received: 04/17/2002

Lab File ID: E00P3-2A70 Date Extracted: 04/18/2002

Sample Volume: 1000(ML) Date Analyzed: 04/19/2002

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

Injection Volume: 1.0(UL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5.0	U
121-14-2	2,4-Dinitrotoluene	5.0	U
84-66-2	Diethylphthalate	5.0	U
86-73-7	Fluorene	5.0	U
7005-72-3	4-Chlorophenyl-phenylether	5.0	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-nitrosodiphenylamine (1)	5.0	U
95-94-3	1,2,4,5 Tetrachlorobenzene	5.0	U
101-55-3	4-Bromophenyl-phenylether	5.0	U
118-74-1	Hexachlorobenzene	5.0	U
1912-24-9	Atrazine	5.0	U
87-86-5	Pentachlorophenol	5.0	U
85-01-8	Phenanthrene	5.0	U
120-12-7	Anthracene	5.0	U
84-74-2	Di-n-butylphthalate	5.0	U
206-44-0	Fluoranthene	5.0	U
129-00-0	Pyrene	5.0	U
85-68-7	Butylbenzylphthalate	5.0	U
91-94-1	3,3'-Dichlorobenzidine	5.0	U
56-55-3	Benzo(a)anthracene	5.0	U
218-01-9	Chrysene	5.0	U
117-81-7	bis(2-Ethylhexyl)phthalate	3.7	JB
117-84-0	Di-n-octylphthalate	5.0	U
205-99-2	Benzo(b)fluoranthene	5.0	U
207-08-9	Benzo(k)fluoranthene	5.0	U
50-32-8	Benzo(a)pyrene	5.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	5.0	U
53-70-3	Dibenzo(a,h)anthracene	5.0	U
191-24-2	Benzo(g,h,i)perylene	5.0	U

(1) - Cannot be separated from Diphenylamine

1LCG
LOW CONCENTRATION WATER SEMIVOLATILE ORGANICS ANALYSIS
DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00P4

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30394 Client No.: SDG No.: E00P3

Lab Sample ID: E00P3-2 Date Received: 04/17/2002

Lab File ID: E00P3-2A70 Date Extracted: 04/18/2002

Sample Volume: 1000(ML) Date Analyzed: 04/19/2002

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

Injection Volume: 1.0(UL)

Number TICs found: 0

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (UG/L)	Q
01					
02					
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LOW CONCENTRATION WATER SEMIVOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E00P6

L ⌐ Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30394 Client No.: SDG No.: E00P3

Lab Sample ID: E00P3-3 Date Received: 04/17/2002

Lab File ID: E00P3-3A70 Date Extracted: 04/18/2002

Sample Volume: 1000(ML) Date Analyzed: 04/19/2002

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

Injection Volume: 1.0(UL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
100-52-7	Benzaldehyde	5.0	U
108-95-2	Phenol	5.0	U
111-44-4	bis(2-Chloroethyl)ether	5.0	U
95-57-8	2-Chlorophenol	5.0	U
95-48-7	2-Methylphenol	5.0	U
108-60-1	2,2'-oxybis(1-Chloropropane)	5.0	U
98-86-2	Acetophenone	5.0	U
106-44-5	4-Methylphenol	5.0	U
621-64-7	N-Nitroso-di-n-propylamine	5.0	U
67-72-1	Hexachloroethane	5.0	U
98-95-3	Nitrobenzene	5.0	U
78-59-1	Isophorone	5.0	U
88-75-5	2-Nitrophenol	5.0	U
105-67-9	2,4-Dimethylphenol	5.0	U
111-91-1	bis(2-Chloroethoxy)methane	5.0	U
120-83-2	2,4-Dichlorophenol	5.0	U
91-20-3	Naphthalene	5.0	U
106-47-8	4-Chloroaniline	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
105-60-2	Caprolactam	5.0	U
59-50-7	4-Chloro-3-methylphenol	5.0	U
91-57-6	2-Methylnaphthalene	5.0	U
77-47-4	Hexachlorocyclopentadiene	5.0	U
88-06-2	2,4,6-Trichlorophenol	5.0	U
95-95-4	2,4,5-Trichlorophenol	20	U
92-52-4	1,1'-Biphenyl	5.0	U
91-58-7	2-Chloronaphthalene	5.0	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5.0	U
606-20-2	2,6-Dinitrotoluene	5.0	U
208-96-8	Acenaphthylene	5.0	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5.0	U

FORM I LCSV-1 OLC03.2

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LOW CONCENTRATION WATER SEMIVOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E00P6

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30394 Client No.: SDG No.: E00P3

Lab Sample ID: E00P3-3 Date Received: 04/17/2002

Lab File ID: E00P3-3A70 Date Extracted: 04/18/2002

Sample Volume: 1000(ML) Date Analyzed: 04/19/2002

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

Injection Volume: 1.0(UL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5.0	U
121-14-2	2,4-Dinitrotoluene	5.0	U
84-66-2	Diethylphthalate	5.0	U
86-73-7	Fluorene	5.0	U
7005-72-3	4-Chlorophenyl-phenylether	5.0	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-nitrosodiphenylamine (1)	5.0	U
95-94-3	1,2,4,5 Tetrachlorobenzene	5.0	U
101-55-3	4-Bromophenyl-phenylether	5.0	U
118-74-1	Hexachlorobenzene	5.0	U
1912-24-9	Atrazine	5.0	U
87-86-5	Pentachlorophenol	5.0	U
85-01-8	Phenanthrene	5.0	U
120-12-7	Anthracene	5.0	U
84-74-2	Di-n-butylphthalate	5.0	U
206-44-0	Fluoranthene	5.0	U
129-00-0	Pyrene	5.0	U
85-68-7	Butylbenzylphthalate	5.0	U
91-94-1	3,3'-Dichlorobenzidine	5.0	U
56-55-3	Benzo(a)anthracene	5.0	U
218-01-9	Chrysene	5.0	U
117-81-7	bis(2-Ethylhexyl)phthalate	2.0	JB
117-84-0	Di-n-octylphthalate	5.0	U
205-99-2	Benzo(b)fluoranthene	5.0	U
207-08-9	Benzo(k)fluoranthene	5.0	U
50-32-8	Benzo(a)pyrene	5.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	5.0	U
53-70-3	Dibenzo(a,h)anthracene	5.0	U
191-24-2	Benzo(g,h,i)perylene	5.0	U

(1) - Cannot be separated from Diphenylamine

1LCG
LOW CONCENTRATION WATER SEMIVOLATILE ORGANICS ANALYSIS
DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00P6

L ɔ Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30394 Client No.: SDG No.: E00P3

Lab Sample ID: E00P3-3 Date Received: 04/17/2002

Lab File ID: E00P3-3A70 Date Extracted: 04/18/2002

Sample Volume: 1000(ML) Date Analyzed: 04/19/2002

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

Injection Volume: 1.0(UL)

Number TICs found: 0

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (UG/L)	Q
01					
02					
03					
04					
05					
06					
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FORM I LCSV-TIC OLC03.2

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LOW CONCENTRATION WATER SEMIVOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E00P6MS

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30394 Client No.: SDG No.: E00P3

Lab Sample ID: WG16924-3 Date Received: 04/17/2002

Lab File ID: WG16924-3A70 Date Extracted: 04/18/2002

Sample Volume: 1000(ML) Date Analyzed: 04/19/2002

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

Injection Volume: 1.0(UL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
100-52-7	Benzaldehyde	5.0	U
108-95-2	Phenol	58	
111-44-4	bis(2-Chloroethyl)ether	5.0	U
95-57-8	2-Chlorophenol	59	
95-48-7	2-Methylphenol	5.0	U
108-60-1	2,2'-oxybis(1-Chloropropane)	5.0	U
98-86-2	Acetophenone	5.0	U
106-44-5	4-Methylphenol	5.0	U
621-64-7	N-Nitroso-di-n-propylamine	15	
67-72-1	Hexachloroethane	5.0	U
98-95-3	Nitrobenzene	5.0	U
78-59-1	Isophorone	5.0	U
88-75-5	2-Nitrophenol	5.0	U
105-67-9	2,4-Dimethylphenol	5.0	U
111-91-1	bis(2-Chloroethoxy)methane	5.0	U
120-83-2	2,4-Dichlorophenol	5.0	U
91-20-3	Naphthalene	5.0	U
106-47-8	4-Chloroaniline	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
105-60-2	Caprolactam	5.0	U
59-50-7	4-Chloro-3-methylphenol	59	
91-57-6	2-Methylnaphthalene	5.0	U
77-47-4	Hexachlorocyclopentadiene	5.0	U
88-06-2	2,4,6-Trichlorophenol	5.0	U
95-95-4	2,4,5-Trichlorophenol	20	U
92-52-4	1,1'-Biphenyl	5.0	U
91-58-7	2-Chloronaphthalene	5.0	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5.0	U
606-20-2	2,6-Dinitrotoluene	5.0	U
208-96-8	Acenaphthylene	5.0	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	15	

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LOW CONCENTRATION WATER SEMIVOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E00P6MS

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30394 Client No.: SDG No.: E00P3

Lab Sample ID: WG16924-3 Date Received: 04/17/2002

Lab File ID: WG16924-3A70 Date Extracted: 04/18/2002

Sample Volume: 1000(ML) Date Analyzed: 04/19/2002

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

Injection Volume: 1.0(UL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	52	
132-64-9	Dibenzofuran	5.0	U
121-14-2	2,4-Dinitrotoluene	14	
84-66-2	Diethylphthalate	5.0	U
86-73-7	Fluorene	5.0	U
7005-72-3	4-Chlorophenyl-phenylether	5.0	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-nitrosodiphenylamine (1)	5.0	U
95-94-3	1,2,4,5 Tetrachlorobenzene	5.0	U
101-55-3	4-Bromophenyl-phenylether	5.0	U
118-74-1	Hexachlorobenzene	5.0	U
1912-24-9	Atrazine	5.0	U
87-86-5	Pentachlorophenol	78	
85-01-8	Phenanthrene	5.0	U
120-12-7	Anthracene	5.0	U
84-74-2	Di-n-butylphthalate	5.0	U
206-44-0	Fluoranthene	5.0	U
129-00-0	Pyrene	18	
85-68-7	Butylbenzylphthalate	5.0	U
91-94-1	3,3'-Dichlorobenzidine	5.0	U
56-55-3	Benzo(a)anthracene	5.0	U
218-01-9	Chrysene	5.0	U
117-81-7	bis(2-Ethylhexyl)phthalate	1.7	JB
117-84-0	Di-n-octylphthalate	5.0	U
205-99-2	Benzo(b)fluoranthene	5.0	U
207-08-9	Benzo(k)fluoranthene	5.0	U
50-32-8	Benzo(a)pyrene	5.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	5.0	U
53-70-3	Dibenzo(a,h)anthracene	5.0	U
191-24-2	Benzo(g,h,i)perylene	5.0	U

(1) - Cannot be separated from Diphenylamine

FORM I LCSV-2 OLC03.2

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LOW CONCENTRATION WATER SEMIVOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E00P6MSD

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30394 Client No.: SDG No.: E00P3

Lab Sample ID: WG16924-4 Date Received: 04/17/2002

Lab File ID: WG16924-4A70 Date Extracted: 04/18/2002

Sample Volume: 1000(ML) Date Analyzed: 04/19/2002

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

Injection Volume: 1.0(UL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
100-52-7	Benzaldehyde	5.0	U
108-95-2	Phenol	57	
111-44-4	bis(2-Chloroethyl)ether	5.0	U
95-57-8	2-Chlorophenol	59	
95-48-7	2-Methylphenol	5.0	U
108-60-1	2,2'-oxybis(1-Chloropropane)	5.0	U
98-86-2	Acetophenone	5.0	U
106-44-5	4-Methylphenol	5.0	U
621-64-7	N-Nitroso-di-n-propylamine	14	
67-72-1	Hexachloroethane	5.0	U
98-95-3	Nitrobenzene	5.0	U
78-59-1	Isophorone	5.0	U
88-75-5	2-Nitrophenol	5.0	U
105-67-9	2,4-Dimethylphenol	5.0	U
111-91-1	bis(2-Chloroethoxy)methane	5.0	U
120-83-2	2,4-Dichlorophenol	5.0	U
91-20-3	Naphthalene	5.0	U
106-47-8	4-Chloroaniline	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
105-60-2	Caprolactam	5.0	U
59-50-7	4-Chloro-3-methylphenol	57	
91-57-6	2-Methylnaphthalene	5.0	U
77-47-4	Hexachlorocyclopentadiene	5.0	U
88-06-2	2,4,6-Trichlorophenol	5.0	U
95-95-4	2,4,5-Trichlorophenol	20	U
92-52-4	1,1'-Biphenyl	5.0	U
91-58-7	2-Chloronaphthalene	5.0	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5.0	U
606-20-2	2,6-Dinitrotoluene	5.0	U
208-96-8	Acenaphthylene	5.0	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	14	

1LCD
LOW CONCENTRATION WATER SEMIVOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E00P6MSD

L Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30394 Client No.: SDG No.: E00P3

Lab Sample ID: WG16924-4 Date Received: 04/17/2002

Lab File ID: WG16924-4A70 Date Extracted: 04/18/2002

Sample Volume: 1000(ML) Date Analyzed: 04/19/2002

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

Injection Volume: 1.0(UL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	61	
132-64-9	Dibenzofuran	5.0	U
121-14-2	2,4-Dinitrotoluene	15	
84-66-2	Diethylphthalate	5.0	U
86-73-7	Fluorene	5.0	U
7005-72-3	4-Chlorophenyl-phenylether	5.0	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-nitrosodiphenylamine (1)	5.0	U
95-94-3	1,2,4,5 Tetrachlorobenzene	5.0	U
101-55-3	4-Bromophenyl-phenylether	5.0	U
118-74-1	Hexachlorobenzene	5.0	U
1912-24-9	Atrazine	5.0	U
87-86-5	Pentachlorophenol	86	E
85-01-8	Phenanthrene	5.0	U
120-12-7	Anthracene	5.0	U
84-74-2	Di-n-butylphthalate	5.0	U
206-44-0	Fluoranthene	5.0	U
129-00-0	Pyrene	19	
85-68-7	Butylbenzylphthalate	5.0	U
91-94-1	3,3'-Dichlorobenzidine	5.0	U
56-55-3	Benzo(a)anthracene	5.0	U
218-01-9	Chrysene	5.0	U
117-81-7	bis(2-Ethylhexyl)phthalate	1.2	JB
117-84-0	Di-n-octylphthalate	5.0	U
205-99-2	Benzo(b)fluoranthene	5.0	U
207-08-9	Benzo(k)fluoranthene	5.0	U
50-32-8	Benzo(a)pyrene	5.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	5.0	U
53-70-3	Dibenzo(a,h)anthracene	5.0	U
191-24-2	Benzo(g,h,i)perylene	5.0	U

(1) - Cannot be separated from Diphenylamine

1LCC
LOW CONCENTRATION WATER SEMIVOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E00P7

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30394 Client No.: SDG No.: E00P3

Lab Sample ID: E00P3-4 Date Received: 04/17/2002

Lab File ID: E00P3-4A70 Date Extracted: 04/18/2002

Sample Volume: 1000(ML) Date Analyzed: 04/19/2002

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

Injection Volume: 1.0(UL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
100-52-7	Benzaldehyde	5.0	U
108-95-2	Phenol	5.0	U
111-44-4	bis(2-Chloroethyl)ether	5.0	U
95-57-8	2-Chlorophenol	5.0	U
95-48-7	2-Methylphenol	5.0	U
108-60-1	2,2'-oxybis(1-Chloropropane)	5.0	U
98-86-2	Acetophenone	5.0	U
106-44-5	4-Methylphenol	5.0	U
621-64-7	N-Nitroso-di-n-propylamine	5.0	U
67-72-1	Hexachloroethane	5.0	U
98-95-3	Nitrobenzene	5.0	U
78-59-1	Isophorone	5.0	U
88-75-5	2-Nitrophenol	5.0	U
105-67-9	2,4-Dimethylphenol	5.0	U
111-91-1	bis(2-Chloroethoxy)methane	5.0	U
120-83-2	2,4-Dichlorophenol	5.0	U
91-20-3	Naphthalene	5.0	U
106-47-8	4-Chloroaniline	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
105-60-2	Caprolactam	5.0	U
59-50-7	4-Chloro-3-methylphenol	5.0	U
91-57-6	2-Methylnaphthalene	5.0	U
77-47-4	Hexachlorocyclopentadiene	5.0	U
88-06-2	2,4,6-Trichlorophenol	5.0	U
95-95-4	2,4,5-Trichlorophenol	20	U
92-52-4	1,1'-Biphenyl	5.0	U
91-58-7	2-Chloronaphthalene	5.0	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5.0	U
606-20-2	2,6-Dinitrotoluene	5.0	U
208-96-8	Acenaphthylene	5.0	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5.0	U

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LOW CONCENTRATION WATER SEMIVOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E00P7

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30394 Client No.: SDG No.: E00P3

Lab Sample ID: E00P3-4 Date Received: 04/17/2002

Lab File ID: E00P3-4A70 Date Extracted: 04/18/2002

Sample Volume: 1000(ML) Date Analyzed: 04/19/2002

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

Injection Volume: 1.0(UL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5.0	U
121-14-2	2,4-Dinitrotoluene	5.0	U
84-66-2	Diethylphthalate	5.0	U
86-73-7	Fluorene	5.0	U
7005-72-3	4-Chlorophenyl-phenylether	5.0	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-nitrosodiphenylamine (1)	5.0	U
95-94-3	1,2,4,5 Tetrachlorobenzene	5.0	U
101-55-3	4-Bromophenyl-phenylether	5.0	U
118-74-1	Hexachlorobenzene	5.0	U
1912-24-9	Atrazine	5.0	U
87-86-5	Pentachlorophenol	5.0	U
85-01-8	Phenanthrene	5.0	U
120-12-7	Anthracene	5.0	U
84-74-2	Di-n-butylphthalate	5.0	U
206-44-0	Fluoranthene	5.0	U
129-00-0	Pyrene	5.0	U
85-68-7	Butylbenzylphthalate	5.0	U
91-94-1	3,3'-Dichlorobenzidine	5.0	U
56-55-3	Benzo(a)anthracene	5.0	U
218-01-9	Chrysene	5.0	U
117-81-7	bis(2-Ethylhexyl)phthalate	1.2	JB
117-84-0	Di-n-octylphthalate	5.0	U
205-99-2	Benzo(b)fluoranthene	5.0	U
207-08-9	Benzo(k)fluoranthene	5.0	U
50-32-8	Benzo(a)pyrene	5.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	5.0	U
53-70-3	Dibenzo(a,h)anthracene	5.0	U
191-24-2	Benzo(g,h,i)perylene	5.0	U

(1) - Cannot be separated from Diphenylamine

FORM I LCSV-2 OLC03.2

1LCG
LOW CONCENTRATION WATER SEMIVOLATILE ORGANICS ANALYSIS
DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00P7

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30394 Client No.: SDG No.: E00P3

Lab Sample ID: E00P3-4 Date Received: 04/17/2002

Lab File ID: E00P3-4A70 Date Extracted: 04/18/2002

Sample Volume: 1000(ML) Date Analyzed: 04/19/2002

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

Injection Volume: 1.0(UL)

Number TICs found: 0

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (UG/L)	Q
01					
02					
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FORM I LCSV-TIC OLC03.2

1LCC
LOW CONCENTRATION WATER SEMIVOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E00P8

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30394 Client No.: SDG No.: E00P3

Lab Sample ID: E00P3-5 Date Received: 04/17/2002

Lab File ID: E00P3-5A70 Date Extracted: 04/18/2002

Sample Volume: 1000(ML) Date Analyzed: 04/19/2002

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

Injection Volume: 1.0(UL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
100-52-7	Benzaldehyde	5.0	U
108-95-2	Phenol	5.0	U
111-44-4	bis(2-Chloroethyl)ether	5.0	U
95-57-8	2-Chlorophenol	5.0	U
95-48-7	2-Methylphenol	5.0	U
108-60-1	2,2'-oxybis(1-Chloropropane)	5.0	U
98-86-2	Acetophenone	5.0	U
106-44-5	4-Methylphenol	5.0	U
621-64-7	N-Nitroso-di-n-propylamine	5.0	U
67-72-1	Hexachloroethane	5.0	U
98-95-3	Nitrobenzene	5.0	U
78-59-1	Isophorone	5.0	U
88-75-5	2-Nitrophenol	5.0	U
105-67-9	2,4-Dimethylphenol	5.0	U
111-91-1	bis(2-Chloroethoxy)methane	5.0	U
120-83-2	2,4-Dichlorophenol	5.0	U
91-20-3	Naphthalene	5.0	U
106-47-8	4-Chloroaniline	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
105-60-2	Caprolactam	5.0	U
59-50-7	4-Chloro-3-methylphenol	5.0	U
91-57-6	2-Methylnaphthalene	5.0	U
77-47-4	Hexachlorocyclopentadiene	5.0	U
88-06-2	2,4,6-Trichlorophenol	5.0	U
95-95-4	2,4,5-Trichlorophenol	20	U
92-52-4	1,1'-Biphenyl	5.0	U
91-58-7	2-Chloronaphthalene	5.0	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5.0	U
606-20-2	2,6-Dinitrotoluene	5.0	U
208-96-8	Acenaphthylene	5.0	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5.0	U

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LOW CONCENTRATION WATER SEMIVOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E00P8

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30394 Client No.: SDG No.: E00P3

Lab Sample ID: E00P3-5 Date Received: 04/17/2002

Lab File ID: E00P3-5A70 Date Extracted: 04/18/2002

Sample Volume: 1000(ML) Date Analyzed: 04/19/2002

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

Injection Volume: 1.0(UL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5.0	U
121-14-2	2,4-Dinitrotoluene	5.0	U
84-66-2	Diethylphthalate	5.0	U
86-73-7	Fluorene	5.0	U
7005-72-3	4-Chlorophenyl-phenylether	5.0	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-nitrosodiphenylamine (1)	5.0	U
95-94-3	1,2,4,5 Tetrachlorobenzene	5.0	U
101-55-3	4-Bromophenyl-phenylether	5.0	U
118-74-1	Hexachlorobenzene	5.0	U
1912-24-9	Atrazine	5.0	U
87-86-5	Pentachlorophenol	5.0	U
85-01-8	Phenanthrene	5.0	U
120-12-7	Anthracene	5.0	U
84-74-2	Di-n-butylphthalate	5.0	U
206-44-0	Fluoranthene	5.0	U
129-00-0	Pyrene	5.0	U
85-68-7	Butylbenzylphthalate	5.0	U
91-94-1	3,3'-Dichlorobenzidine	5.0	U
56-55-3	Benzo(a)anthracene	5.0	U
218-01-9	Chrysene	5.0	U
117-81-7	bis(2-Ethylhexyl)phthalate	5.0	U
117-84-0	Di-n-octylphthalate	5.0	U
205-99-2	Benzo(b)fluoranthene	5.0	U
207-08-9	Benzo(k)fluoranthene	5.0	U
50-32-8	Benzo(a)pyrene	5.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	5.0	U
53-70-3	Dibenzo(a,h)anthracene	5.0	U
191-24-2	Benzo(g,h,i)perylene	5.0	U

(1) - Cannot be separated from Diphenylamine

1LCG
LOW CONCENTRATION WATER SEMIVOLATILE ORGANICS ANALYSIS
DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00P8

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30394 Client No.: SDG No.: E00P3

Lab Sample ID: E00P3-5 Date Received: 04/17/2002

Lab File ID: E00P3-5A70 Date Extracted: 04/18/2002

Sample Volume: 1000(ML) Date Analyzed: 04/19/2002

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

Injection Volume: 1.0(UL)

Number TICs found: 0

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (UG/L)	Q
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FORM I LCSV-TIC OLC03.2

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LOW CONCENTRATION WATER SEMIVOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E00P9

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30394 Client No.: SDG No.: E00P3

Lab Sample ID: E00P3-6 Date Received: 04/17/2002

Lab File ID: E00P3-6A70 Date Extracted: 04/18/2002

Sample Volume: 1000(ML) Date Analyzed: 04/20/2002

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

Injection Volume: 1.0(UL)

CAS NO	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
100-52-7	Benzaldehyde	5.0	U
108-95-2	Phenol	5.0	U
111-44-4	bis(2-Chloroethyl)ether	5.0	U
95-57-8	2-Chlorophenol	5.0	U
95-48-7	2-Methylphenol	5.0	U
108-60-1	2,2'-oxybis(1-Chloropropane)	5.0	U
98-86-2	Acetophenone	5.0	U
106-44-5	4-Methylphenol	5.0	U
621-64-7	N-Nitroso-di-n-propylamine	5.0	U
67-72-1	Hexachloroethane	5.0	U
98-95-3	Nitrobenzene	5.0	U
78-59-1	Isophorone	5.0	U
88-75-5	2-Nitrophenol	5.0	U
105-67-9	2,4-Dimethylphenol	5.0	U
111-91-1	bis(2-Chloroethoxy)methane	5.0	U
120-83-2	2,4-Dichlorophenol	5.0	U
91-20-3	Naphthalene	5.0	U
106-47-8	4-Chloroaniline	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
105-60-2	Caprolactam	5.0	U
59-50-7	4-Chloro-3-methylphenol	5.0	U
91-57-6	2-Methylnaphthalene	5.0	U
77-47-4	Hexachlorocyclopentadiene	5.0	U
88-06-2	2,4,6-Trichlorophenol	5.0	U
95-95-4	2,4,5-Trichlorophenol	20	U
92-52-4	1,1'-Biphenyl	5.0	U
91-58-7	2-Chloronaphthalene	5.0	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5.0	U
606-20-2	2,6-Dinitrotoluene	5.0	U
208-96-8	Acenaphthylene	5.0	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5.0	U

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LOW CONCENTRATION WATER SEMIVOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E00P9

L , Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30394 Client No.: SDG No.: E00P3

Lab Sample ID: E00P3-6 Date Received: 04/17/2002

Lab File ID: E00P3-6A70 Date Extracted: 04/18/2002

Sample Volume: 1000(ML) Date Analyzed: 04/20/2002

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

Injection Volume: 1.0(UL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5.0	U
121-14-2	2,4-Dinitrotoluene	5.0	U
84-66-2	Diethylphthalate	5.0	U
86-73-7	Fluorene	5.0	U
7005-72-3	4-Chlorophenyl-phenylether	5.0	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-nitrosodiphenylamine (1)	5.0	U
95-94-3	1,2,4,5 Tetrachlorobenzene	5.0	U
101-55-3	4-Bromophenyl-phenylether	5.0	U
118-74-1	Hexachlorobenzene	5.0	U
1912-24-9	Atrazine	5.0	U
87-86-5	Pentachlorophenol	5.0	U
85-01-8	Phenanthrene	5.0	U
120-12-7	Anthracene	5.0	U
84-74-2	Di-n-butylphthalate	5.0	U
206-44-0	Fluoranthene	5.0	U
129-00-0	Pyrene	5.0	U
85-68-7	Butylbenzylphthalate	5.0	U
91-94-1	3,3'-Dichlorobenzidine	5.0	U
56-55-3	Benzo(a)anthracene	5.0	U
218-01-9	Chrysene	5.0	U
117-81-7	bis(2-Ethylhexyl)phthalate	1.3	JB
117-84-0	Di-n-octylphthalate	5.0	U
205-99-2	Benzo(b)fluoranthene	5.0	U
207-08-9	Benzo(k)fluoranthene	5.0	U
50-32-8	Benzo(a)pyrene	5.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	5.0	U
53-70-3	Dibenzo(a,h)anthracene	5.0	U
191-24-2	Benzo(g,h,i)perylene	5.0	U

(1) - Cannot be separated from Diphenylamine

1LCG
LOW CONCENTRATION WATER SEMIVOLATILE ORGANICS ANALYSIS
DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00P9

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30394 Client No.: SDG No.: E00P3

Lab Sample ID: E00P3-6 Date Received: 04/17/2002

Lab File ID: E00P3-6A70 Date Extracted: 04/18/2002

Sample Volume: 1000(ML) Date Analyzed: 04/20/2002

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

Injection Volume: 1.0(UL)

Number TICs found: 0

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (UG/L)	Q
01					
02					
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FORM I LCSV-TIC OLC03.2

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LOW CONCENTRATION WATER SEMIVOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

SBLKQF

L Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30394 Client No.: SDG No.: E00P3

Lab Sample ID: WG16924-1 Date Received: _____

Lab File ID: WG16924-1A70 Date Extracted: 04/18/2002

Sample Volume: 1000(ML) Date Analyzed: 04/19/2002

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

Injection Volume: 1.0(UL)

CAS NO	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
100-52-	Benzaldehyde	5.0	U
108-95-	Phenol	5.0	U
111-44-	bis(2-Chloroethyl)ether	5.0	U
95-57-	2-Chlorophenol	5.0	U
95-48-	2-Methylphenol	5.0	U
108-60-	2,2'-oxybis(1-Chloropropane)	5.0	U
98-86-	Acetophenone	5.0	U
106-44-5	4-Methylphenol	5.0	U
621-64-7	N-Nitroso-di-n-propylamine	5.0	U
67-72-	Hexachloroethane	5.0	U
98-95-	Nitrobenzene	5.0	U
78-59-	Isophorone	5.0	U
88-75-	2-Nitrophenol	5.0	U
105-67-	2,4-Dimethylphenol	5.0	U
111-91-	bis(2-Chloroethoxy)methane	5.0	U
120-83-	2,4-Dichlorophenol	5.0	U
91-20-	Naphthalene	5.0	U
106-47-	4-Chloroaniline	5.0	U
87-68-	Hexachlorobutadiene	5.0	U
105-60-	Caprolactam	5.0	U
59-50-	4-Chloro-3-methylphenol	5.0	U
91-57-	2-Methylnaphthalene	5.0	U
77-47-	Hexachlorocyclopentadiene	5.0	U
88-06-	2,4,6-Trichlorophenol	5.0	U
95-95-	2,4,5-Trichlorophenol	20	U
92-52-	1,1'-Biphenyl	5.0	U
91-58-	2-Chloronaphthalene	5.0	U
88-74-	2-Nitroaniline	20	U
131-11-	Dimethylphthalate	5.0	U
606-20-	2,6-Dinitrotoluene	5.0	U
208-96-	Acenaphthylene	5.0	U
99-09-	3-Nitroaniline	20	U
83-32-	Acenaphthene	5.0	U

1LCD
LOW CONCENTRATION WATER SEMIVOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

SBLKQF

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30394 Client No.: SDG No.: E00P3

Lab Sample ID: WG16924-1 Date Received: _____

Lab File ID: WG16924-1A70 Date Extracted: 04/18/2002

Sample Volume: 1000(ML) Date Analyzed: 04/19/2002

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

Injection Volume: 1.0(UL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5.0	U
121-14-2	2,4-Dinitrotoluene	5.0	U
84-66-2	Diethylphthalate	5.0	U
86-73-7	Fluorene	5.0	U
7005-72-3	4-Chlorophenyl-phenylether	5.0	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-nitrosodiphenylamine (1)	5.0	U
95-94-3	1,2,4,5 Tetrachlorobenzene	5.0	U
101-55-3	4-Bromophenyl-phenylether	5.0	U
118-74-1	Hexachlorobenzene	5.0	U
1912-24-9	Atrazine	5.0	U
87-86-5	Pentachlorophenol	5.0	U
85-01-8	Phenanthrene	5.0	U
120-12-7	Anthracene	5.0	U
84-74-2	Di-n-butylphthalate	5.0	U
206-44-0	Fluoranthene	5.0	U
129-00-0	Pyrene	5.0	U
85-68-7	Butylbenzylphthalate	5.0	U
91-94-1	3,3'-Dichlorobenzidine	5.0	U
56-55-3	Benzo(a)anthracene	5.0	U
218-01-9	Chrysene	5.0	U
117-81-7	bis(2-Ethylhexyl)phthalate	3.3	J
117-84-0	Di-n-octylphthalate	5.0	U
205-99-2	Benzo(b)fluoranthene	5.0	U
207-08-9	Benzo(k)fluoranthene	5.0	U
50-32-8	Benzo(a)pyrene	5.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	5.0	U
53-70-3	Dibenzo(a,h)anthracene	5.0	U
191-24-2	Benzo(g,h,i)perylene	5.0	U

(1) - Cannot be separated from Diphenylamine

1LCG

LOW CONCENTRATION WATER SEMIVOLATILE ORGANICS ANALYSIS
DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SBLKQF

1 Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30394 Client No.: SDG No.: E00P3

Lab Sample ID: WG16924-1 Date Received: _____

Lab File ID: WG16924-1A70 Date Extracted: 04/18/2002

Sample Volume: 1000(ML) Date Analyzed: 04/19/2002

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

Injection Volume: 1.0(UL)

Number TICs found: 0

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (UG/L)	Q
01					
02					
03					
04					
05					
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28					
29					
30					

FORM I LCSV-TIC OLC03.2

2LCE

LOW CONCENTRATION WATER PESTICIDE SURROGATE RECOVERY

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30394 Client No.: SDG No.: E00P3

GC Column(1):CLPEST1 ID:0.53(MM) GC Column(2):CLPEST2 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	PBLKQI	88	77	81	85			0
02	PLCSQI	78	59	74	75			0
03	E00P3	85	65	85	83			0
04	E00P4	83	67	78	75			0
05	E00P7	73	60	82	79			0
06	E00P8	86	76	75	73			0
07	E00P9	83	62	74	74			0
08	PBLKSC	97	102	104	111			0
09	E00P6MS	77	73	93	93			0
10	E00P6MSD	71	76	90	89			0
11	E00P6	82	76	89	87			0
12								
13								
14								
15								
16								
17								
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22								
23								
24								
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27								
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29								
30								

		QC LIMITS
S1 (TCX)	= Tetrachloro-m-xylene	(30-150)
S2 (DCB)	= Decachlorobiphenyl	(30-150)

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out

3LCC
LOW CONCENTRATION WATER PESTICIDE
MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30394 Client No.: SDG No.: E00P3

Matrix Spike - EPA Sample No.: E00P6

Instrument ID: TRACEGC83 GC Column: CLPEST1 ID: 0.53(MM)

COMPOUND	SPIKE ADDED (UG/L)	SAMPLE CONCENTRATION (UG/L)	MS CONCENTRATION (UG/L)	MS % REC #	QC. LIMITS REC.
gamma-BHC (Lindane)	0.10	0.0	0.074	74	56-123
Heptachlor	0.10	0.0	0.075	75	40-131
Aldrin	0.10	0.0	0.071	71	40-120
Dieldrin	0.20	0.0	0.15	75	52-126
Endrin	0.20	0.0	0.17	85	56-121
4,4'-DDT	0.20	0.0	0.15	75	38-127

COMPOUND	SPIKE ADDED (UG/L)	MSD CONCENTRATION (UG/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
gamma-BHC (Lindane)	0.10	0.068	68	8	15	56-123
Heptachlor	0.10	0.068	68	10	20	40-131
Aldrin	0.10	0.067	67	6	22	40-120
Dieldrin	0.20	0.14	70	7	18	52-126
Endrin	0.20	0.16	80	6	21	56-121
4,4'-DDT	0.20	0.15	75	0	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: 0 out of 12 outside limits

COMMENTS:

3LCC
LOW CONCENTRATION WATER PESTICIDE
MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30394 Client No.: SDG No.: E00P3

Matrix Spike - EPA Sample No.: E00P6

Instrument ID: TRACEGC82 GC Column: CLPEST2 ID: 0.53(MM)

COMPOUND	SPIKE ADDED (UG/L)	SAMPLE CONCENTRATION (UG/L)	MS CONCENTRATION (UG/L)	MS % REC #	QC. LIMITS REC.
gamma-BHC (Lindane)	0.10	0.0	0.079	79	56-123
Heptachlor	0.10	0.0	0.082	82	40-131
Aldrin	0.10	0.0	0.084	84	40-120
Dieldrin	0.20	0.0	0.17	85	52-126
Endrin	0.20	0.0	0.19	95	56-121
4,4'-DDT	0.20	0.0	0.18	90	38-127

COMPOUND	SPIKE ADDED (UG/L)	MSD CONCENTRATION (UG/L)	MSD % REC #	% RPD #	QC LIMIT RPD	QC LIMIT REC.
gamma-BHC (Lindane)	0.10	0.073	73	8	15	56-123
Heptachlor	0.10	0.077	77	6	20	40-131
Aldrin	0.10	0.075	75	11	22	40-120
Dieldrin	0.20	0.16	80	6	18	52-126
Endrin	0.20	0.18	90	5	21	56-121
4,4'-DDT	0.20	0.17	85	6	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: 0 out of 12 outside limits

COMMENTS:

3LCD
LOW CONCENTRATION WATER PESTICIDE LAB CONTROL
SAMPLE RECOVERY

EPA SAMPLE NO.

PLCSQI

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30394 Client No.: SDG No.: E00P3

Lab Sample ID: WG16928-2 LCS Lot No: 52878

LCS Aliquot: 1000.0(UL) Date Extracted: 04/18/2002

Concentrate Extract Volume: 2000(UL) Date Analyzed: 04/19/2002

Injection Volume: 1.0(UL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) N

Instrument ID: TRACEGC83 GC Column: CLPEST1 ID: 0.53(MM)

COMPOUND	AMOUNT ADDED (UG/L)	AMOUNT RECOVERED (UG/L)	%REC #	QC LIMITS
gamma-BHC (Lindane)	0.10	0.065	65	50-120
Heptachlor epoxide	0.10	0.068	68	50-150
Dieldrin	0.20	0.14	70	30-130
4,4'-DDE	0.20	0.14	70	50-150
Endrin	0.20	0.15	75	50-120
Endosulfan sulfate	0.20	0.11	55	50-120
gamma-Chlordane	0.10	0.064	64	30-130

Instrument ID: TRACEGC82 GC Column: CLPEST2 ID: 0.53(MM)

COMPOUND	AMOUNT ADDED (UG/L)	AMOUNT RECOVERED (UG/L)	%REC #	QC LIMITS
gamma-BHC (Lindane)	0.10	0.069	69	50-120
Heptachlor epoxide	0.10	0.073	73	50-150
Dieldrin	0.20	0.15	75	30-130
4,4'-DDE	0.20	0.14	70	50-150
Endrin	0.20	0.16	80	50-120
Endosulfan sulfate	0.20	0.11	55	50-120
gamma-Chlordane	0.10	0.067	67	30-130

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

LCS Recovery: 0 outside limits out of 14 total.

COMMENTS:

4LCC
LOW CONCENTRATION WATER
PESTICIDE METHOD BlANK SUMMARY

EPA SAMPLE NO.

PBLKQI

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30394 Client No.: SDG No.: E00P3

Date Extracted: 04/18/2002 Lab Sample ID: WG16928-1

Date Analyzed (1): 04/19/2002 Date Analyzed (2): 04/19/200

Time Analyzed (1): 1555 Time Analyzed (2): 1555

Instrument ID (1): TRACEGC83 Instrument ID (2): TRACEGC82

GC Column (1): CLPEST1 ID: 0.53(MM) GC Column (2): CLPEST2 ID: 0.53(MM)

Sulfur Cleanup (Y/N) N Extraction: (Sepf/Cont) SEPF

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLE ANALYSES:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	PLCSQI	WG16928-2	04/19/2002	04/19/2002
02	E00P3	E00P3-1	04/19/2002	04/19/2002
03	E00P4	E00P3-2	04/19/2002	04/19/2002
04	E00P7	E00P3-4	04/19/2002	04/19/2002
05	E00P8	E00P3-5	04/19/2002	04/19/2002
06	E00P9	E00P3-6	04/19/2002	04/19/2002
07	E00P6MS	WG16928-3	04/22/2002	04/22/2002
08	E00P6MSD	WG16928-4	04/22/2002	04/22/2002
09	E00P6	E00P3-3	04/22/2002	04/22/2002
10				
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23				
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25				
26				

COMMENTS:

FORM IV LCP OLC03.2

1LCE
LOW CONCENTRATION WATER PESTICIDE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E00P3

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30394 Client No.: SDG No.: E00P3

Lab Sample ID: E00P3-1 Date Received: 04/17/2002

Sample Volume: 1000(ML) Date Extracted: 04/18/2002

Concentrated Extract Volume: 2000(UL) Date Analyzed: 04/19/2002

Injection Volume: 1.0(UL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) N Extraction: (Sepf/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U

1LCE
LOW CONCENTRATION WATER PESTICIDE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E00P4

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30394 Client No.: SDG No.: E00P3

Lab Sample ID: E00P3-2 Date Received: 04/17/2002

Sample Volume: 1000(ML) Date Extracted: 04/18/2002

Concentrated Extract Volume: 2000(UL) Date Analyzed: 04/19/2002

Injection Volume: 1.0(UL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) N Extraction: (Sepf/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U

1LCE
LOW CONCENTRATION WATER PESTICIDE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E00P6

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30394 Client No.: SDG No.: E00P3

Lab Sample ID: E00P3-3 Date Received: 04/17/2002

Sample Volume: 1000(ML) Date Extracted: 04/18/2002

Concentrated Extract Volume: 2000(UL) Date Analyzed: 04/22/2002

Injection Volume: 1.0(UL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) Y Extraction: (Sepf/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U

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LOW CONCENTRATION WATER PESTICIDE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E00P6MS(1)

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30394 Client No.: SDG No.: E00P3

Lab Sample ID: WG16928-3 Date Received: 04/17/2002

Sample Volume: 1000(ML) Date Extracted: 04/18/2002

Concentrated Extract Volume: 2000(UL) Date Analyzed: 04/22/2002

Injection Volume: 1.0(UL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) Y Extraction: (Sepf/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.012	
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.074	
76-44-8	Heptachlor	0.075	
309-00-2	Aldrin	0.071	
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.15	
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.17	
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.0072	J
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.15	
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U

1LCE
LOW CONCENTRATION WATER PESTICIDE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E00P6MS(2)

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30394 Client No.: SDG No.: E00P3

Lab Sample ID: WG16928-3 Date Received: 04/17/2002

Sample Volume: 1000(ML) Date Extracted: 04/18/2002

Concentrated Extract Volume: 2000(UL) Date Analyzed: 04/22/2002

Injection Volume: 1.0(UL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) Y Extraction: (Sepf/Cont) SEPF

CAS NO	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.079	
76-44-8	Heptachlor	0.082	
309-00-2	Aldrin	0.084	
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.17	
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.19	
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.0082	J
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.18	
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U

1LCE
LOW CONCENTRATION WATER PESTICIDE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E00P6MSD(1

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30394 Client No.: SDG No.: E00P3

Lab Sample ID: WG16928-4 Date Received: 04/17/2002

Sample Volume: 1000(ML) Date Extracted: 04/18/2002

Concentrated Extract Volume: 2000(UL) Date Analyzed: 04/22/2002

Injection Volume: 1.0(UL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) Y Extraction: (Sepf/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.068	
76-44-8	Heptachlor	0.068	
309-00-2	Aldrin	0.067	
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.14	
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.16	
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.0065	J
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.15	
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U

1LCE
LOW CONCENTRATION WATER PESTICIDE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E00P6MSD(2)

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30394 Client No.: SDG No.: E00P3

Lab Sample ID: WG16928-4 Date Received: 04/17/2002

Sample Volume: 1000(ML) Date Extracted: 04/18/2002

Concentrated Extract Volume: 2000(UL) Date Analyzed: 04/22/2002

Injection Volume: 1.0(UL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) Y Extraction: (Sepf/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.073	
76-44-8	Heptachlor	0.077	
309-00-2	Aldrin	0.075	
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.16	
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.18	
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.0072	J
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.17	
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U

1LCE
LOW CONCENTRATION WATER PESTICIDE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E00P7

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30394 Client No.: SDG No.: E00P3

Lab Sample ID: E00P3-4 Date Received: 04/17/2002

Sample Volume: 1000(ML) Date Extracted: 04/18/2002

Concentrated Extract Volume: 2000(UL) Date Analyzed: 04/19/2002

Injection Volume: 1.0(UL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) N Extraction: (Sepf/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U

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LOW CONCENTRATION WATER PESTICIDE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E00P8

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30394 Client No.: SDG No.: E00P3

Lab Sample ID: E00P3-5 Date Received: 04/17/2002

Sample Volume: 1000(ML) Date Extracted: 04/18/2002

Concentrated Extract Volume: 2000(UL) Date Analyzed: 04/19/2002

Injection Volume: 1.0(UL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) N Extraction: (Sepf/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U

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LOW CONCENTRATION WATER PESTICIDE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E00P9

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30394 Client No.: SDG No.: E00P3

Lab Sample ID: E00P3-6 Date Received: 04/17/2002

Sample Volume: 1000(ML) Date Extracted: 04/18/2002

Concentrated Extract Volume: 2000(UL) Date Analyzed: 04/19/2002

Injection Volume: 1.0(UL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) N Extraction: (Sepf/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U

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LOW CONCENTRATION WATER PESTICIDE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

PBLKQI

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30394 Client No.: SDG No.: E00P3

Lab Sample ID: WG16928-1 Date Received: _____

Sample Volume: 1000(ML) Date Extracted: 04/18/2002

Concentrated Extract Volume: 2000(UL) Date Analyzed: 04/19/2002

Injection Volume: 1.0(UL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) N Extraction: (Sepf/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U

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LOW CONCENTRATION WATER PESTICIDE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

PBLKSC

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30394 Client No.: SDG No.: E00P3

Lab Sample ID: PBLKSC Date Received: _____

Sample Volume: 1000(ML) Date Extracted:

Concentrated Extract Volume: 2000(UL) Date Analyzed: 04/22/2002

Injection Volume: 1.0(UL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) Y Extraction: (Sepf/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V
ESD Central Regional Laboratory
Data Tracking Form for Contract Samples

Sample Delivery Group: EC0P3 CERCLIS No: ILD048843809

Case No: 30394 Site Name/Location: CHEMETCO

Contractor of EPA Lab: CompuChem Data User: IEPA

No. of Samples: 7 Date Sampled or Date Received: 4-29-02

Have Chain-of-Custody records been received? Yes ✓ No ____
Have traffic reports or packing lists been received? Yes ✓ No ____
If no, are traffic report or packing list numbers written on the Chain-of-Custody Record?
Yes ____ No ____
If no, which traffic report or packing list numbers are missing?

Are basic data forms in? Yes ✓ No ____
No of samples claimed: 7 No. of samples received: 7

Received by: Ena M. Dixon/ESAT Date: 4-29-02

Received by LSSS: Ena M. Dixon/ESAT Date: 4-29-02

Review started: ____ Reviewer Signature: ____

Total time spent on review: ____ Date review completed: ____

Copied by: Ena M. Dixon/ESAT Date: 5-2-02

Mailed to user by: Ena M. Dixon/ESAT Date: 5-2-02

DATA USER:
Please fill in the blanks below and return this form to:
Sylvia Griffin, Data Mgmt. Coordinator, Region V, ML-10C

Data received by: ____ Date: ____

Data review received by: ____ Date: ____

Inorganic Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK
Organic Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK
Dioxin data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK
SAS Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK

PROBLEMS: Please indicate reasons why data are not suitable for your uses.

Received by Data Mgmt. Coordinator for Files. Date: ____

Chemetco & water Results (Inorgs)

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 5 CENTRAL REGIONAL LABORATORY

536 SOUTH CLARK STREET

CHICAGO, ILLINOIS 60605

Date: MAY 2 9 2002

Subject: Review of Region 5 Data for **Chemetco**

From: **Marjorie Mattox, Chemist, ESAT/IITRI**
Contractor to Region 5 Central Regional Laboratory
Submitted to EPA: Marjorie L. Mattox 5-28-02

To: Bob Casper
ILLINOIS EPA

Attached are the results for: **Chemetco**

CRL data set number: **20020058**

Samples analyzed for: **Cyanide**

Results are reported for sample designations: **2002IE07S01 to S04, D01, R01**

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MAY 3 1 2002
ENVIRONMENTAL

Sylvia Griffin MAY 2 9 2002

Data Management Coordinator and Date Received

Date Transmitted: MAY 2 9 2002 / /

Please have the U.S. EPA Project Manager/Officer call the CRL Sample Coordinator at 3-7444 for any comments or questions.

Please sign and date this form below and return it with any comments to:

Sylvia Griffin
Data Management Coordinator
Region 5 Central Regional Laboratory
ML-10C

/ /

Received by and Date

Comments:

Rev. 4/10/02

Parameter: Cyanide
Method: 335.2 NS (AIG025 dated 12/07/00)
Analyst: M. Mattox M. Mattox
Date: May 24, 2002 5-24-02

Data Set: 20020058
TDF: 5-02-045
JOB: 249-0-1476-102-023-001
Task Order: 05-0-02

NARRATIVE

Six water samples from the Chemetco (Hartford, IL) site were collected on April 15, 2002. The samples were received properly preserved, by CRL on April 17, 2002. These samples were assigned to ESAT for cyanide analysis. The samples and their station identification are stated as follows: 2002IE07S01(G101), 2002IE07D01(G102), 2002IE07S02(G103), 2002IE07S03(G104), 2002IE07S04(G106), and 2002IE07R01(G105). All samples were analyzed within the 14 day holding time limit.

Distillation was performed on the Easy Still unit on April 23, 2002. A predistillation check for sulfide and chlorine showed negative results. Analysis was performed on April 24, 2002. A detailed history of the distillation and analysis can be found in the instrument log book and IITRI log book C31611.

The distilled LCM was slightly above the upper limit. All samples were non-detects and are therefore not affected by this result. All other QC audits were in control. All sample results are acceptable.

Samples 2002IE07S01 and D01 are field duplicates which show good correlation.

Sample 2002IE07R01 is a field blank which shows no contamination.

Analytical final results were stored in the following database files:
R5crl\vol2\iitri-aig\mmattox\LACHET 2(SN 1327)\Cyanide-T\20020058\Lachet 2\042402J (Each analytical run is stored as a text file directly from the instrument and also as a Lotus spreadsheet).

Analytical aborted or not used results are stored in the following database file:
R5crl\vol2\iitri-aig\mmattox\LACHET 2(SN 1327)\Cyanide-T\20020058\Lachet 2\Data

The narrative, spreadsheet, and QC summary are stored in file folder
R5crl\vol2\iitri-aig\mmattox\Cyanide-T\20020058\CN Reports

At this time RLIMS is not available, therefore WordPerfect reports were generated. Time must be allotted in the future to enter the data into RLIMS when it does become available.

ENVIRONMENTAL PROTECTION AGENCY
REGION 5
CENTRAL REGIONAL LABORATORY
FINAL RESULT REPORT FOR THE TEAM MINERALS-NUTRIENTS

DIVISION/BRANCH: SUPERFUND **SAMPLING DATE:** 04/15/02 **LAB ARRIVAL DATE:** 04/17/02 **DUE DATE:** 05/28/02
DU NUMBER: 50102D **DATASET NUMBER:** 20020058 **STUDY:** Chemetco (Hartford, IL) **PRIORITY:** Routine **LABORATORY :** ESAT

	CRL LOG	SAMPLE	Cyanide ug/l	Flag	
1	2002IE07S01	G101	8	U	
2	2002IE07D01	G102	8	U	
3	2002IE07S02	G103	8	U	
4	2002IE07S03	G104	8	U	
5	2002IE07S04	G106	8	U	
6	2002IE07R01	G105	8	U	
DATE OF ANALYSIS		5-24-02	04/24/02		
ANALYST		M. Mattox	M. Mattox		

Reviewed by: JG Date: 5/24/02

000008

2002 0058

507020

ENVIRONMENTAL PROTECTION AGENCY
FOR THE TEAM: MINERALS - NUTRIENTS

DIVISION/BRANCH SUPERFUND SAMPLE DATE 4/15/2002 LAB ARRIVAL DATE 4/17/2002 DUE DATE 5/16/2002

DU NUMBER 507020 DATA SET NUMBER 2002 0058 STUDY CHEMGT CO PRIORITY N CONTRACTOR IEPA

CRL LOG NUMBER	SAMPLE DESCRIPTION	WATER PHENOLICS UG PHENOL/L MIN 74818	WATER CYANIDE UG CN/L MIN 74819	WATER GROSS ALPHA P CI/L MIN 75020	WATER CR^{+3} UG CR^{+6}/L MIN 74818	WATER MERCURY UG HG/L MIN 74717
2002 I307 S01	G101 5-100786		X			
D01	G102 5-100787		X			
S02	5-100788 & 5-100810-811 G103 MS/MSD		X			
S03	G104 5-100789		X			
S04	G106 5-100791		X			
R01	G105 5-100790		X			

000004

CRL Data Review Qualification Codes

QUALIFIER	DESCRIPTION
B	This flag is used when the analyte is found in the associated ***B***lank as well as the sample. It indicates possible blank contamination and warns the user to take appropriate action while assessing the data. See the case narrative for a discussion of common lab contaminants and/or the relative concentration of contamination in the samples and blanks for relevance.
J	This flag is used when the analyte is estimated due to quality control limit(s) being exceeded. This flag accompanies all GC/MS tentatively identified compounds (TICs). This flag also applies to a suspected, unidentified interference. This flag is placed on affected detected results as well as non-detected (i.e., "U" flagged) results. (***J*** is the flag used in the Superfund CLP SOW and Data Review Functional Guidelines and is used by CRL for consistency.)
M	This flag is used when the analyte is confirmed to be qualitatively present in the sample, extract or digestate, with a quantity at or above the CRL ***M***ethod Detection Limit (MDL) but below the lowest concentration of the calibration curve. This flag indicates the quantitated value is estimated since it falls below the lowest calibration standard in the calibration curve.
N	This flag applies to GC/MS Te***N***tatively Identified Compounds (TICs) that have a mass spectral library match.
Q	This flag applies to analyte data that are severely estimated due to quality control and/or ***Q***uantitation problems, but are confirmed to be qualitatively present in the sample. No value is reported with this qualification flag.
R	This flag applies to analyte data that are ***R***ejected and unusable due to severe quality control, quantitation and/or qualitative identification problems. No other qualification flags are reported for this analyte. No value is reported with this qualification flag.
U	This flag in used when the analyte was analyzed for but ***U***ndetected in the sample. The CRL RL for the analyte accompanies this flag. When the customer requests CRL to report below our RL down to our MDL, undetected analytes are reported with a "U" code and the MDL. As with sample results that are positive, the value is corrected for dry weight, dilution and/or sample weight or volume.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 5 CENTRAL REGIONAL LABORATORY

536 SOUTH CLARK STREET

CHICAGO, ILLINOIS 60605

Date: MAY 2 9 2002

Subject: Review of Region 5 Data for **Chemetco**

From: **Marjorie Mattox, Chemist, ESAT/IITRI**
Contractor to Region 5 Central Regional Laboratory
Submitted to EPA: Marjorie L. Mattox 5-28-02

To: Bob Caspir
ILLINOIS EPA

Attached are the results for: **Chemetco**

CRL data set number: **20020058**

Samples analyzed for: **Mercury**

Results are reported for sample designations: **2002IE07S01 to S04, D01, R01**

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MAY 3 1 2002
IEPA-BOL-FSRS

Sylvia Griffin MAY 2 9 2002

Data Management Coordinator and Date Received

Date Transmitted: MAY 2 9 2002

Please have the U.S. EPA Project Manager/Officer call the CRL Sample Coordinator at 3-7444 for any comments or questions.

Please sign and date this form below and return it with any comments to:

Sylvia Griffin
Data Management Coordinator
Region 5 Central Regional Laboratory
ML-10C

Received by and Date

Comments:

Rev. 4/10/02

Parameter: Mercury
Method: 245.2*DNS (AIG044 dated 01/23/01)
Analyst: M. Mattox M. Mattox
Date: May 23, 2002 5-23-02

Data Set: 20020058
TDF: 5-02-045
JOB: 249-0-1476-102-023-001
Task Order: 05-0-02

NARRATIVE

Six (6) water samples from the Chemetco (Hartford, IL) site (data set 20020058) were collected on April 15, 2002. The samples were received properly preserved on April 17, 2002. The water samples are stated with the sample number and station identification as follows: 2002IE07S01 (G101), 2002IE07D01 (G102), 2002IE07S02 (G103), 2002IE07S03 (G104), 2002OS01S04 (G106), 2002IE07R01 (G105). These six samples were assigned to ESAT for mercury analysis.

The samples were digested on April 30, 2002 with data set 20020055 and 20020056. The data sets were digested by adding the acid mixture, potassium permanganate, and potassium persulfate manually. The samples were covered and the autodigestion unit was then used for heating only. The samples were put on for digestion late in the day and left on the digestion unit overnight. The unit shut itself off when digestion was complete. After the samples cooled the hydroxylamine solution was manually added. Analysis was then attempted on May 2 and 3, 2002. Some instrument complications developed during analysis on May 2 and 3, 2002. A linear correlation factor greater than 0.9975 could not be achieved. Redigestion of the complete digestion set as stated above was done on May 6, 2002. This digestion included two standard preparations using two separate sources to check the results due to problems encountered during the previous analysis. Analysis was completed within the 28 day holding time limit on May 10, 2002. The data sets were analyzed separately. Details of this analysis can be found in the EPA instrument logbook, and IITRI logbook number C31606.

All QC was within limits. All sample results are acceptable.

Samples 2002IE07S01 and D01 are field duplicates which show good correlation.

Sample 2002IE07R01 is a field blank which shows no contamination.

The narrative, spreadsheet, and QC summary are stored in file folder:
r5crl\vol2\iitri-aig\mmattox\PSAMercury\Hg Water\20020058

At this time RLIMS is not available, therefore WordPerfect reports were generated. Time must be allotted in the future to enter the data into RLIMS when it does become available.

ENVIRONMENTAL PROTECTION AGENCY
REGION
CENTRAL REGIONAL LABORATORY
FINAL RESULT REPORT FOR THE TEAM MINERALS-NUTRIENTS

DIVISION/BRANCH: SUPERFUND SAMPLING DATE: 04/15/02 LAB ARRIVAL DATE: 04/17/02 DUE DATE: 05/28/02
DU NUMBER: 50102D DATASET NUMBER: 20020058 STUDY: Chemetco PRIORITY: Routine LABORATORY : ESAT

	CRL LOG	SAMPLE	Mercury ug/l	Flag	
1	2002IE07S01	G101	0.5	U	
2	2002IE07D01	G102	0.5	U	
3	2002IE07S02	G103	0.5	U	
4	2002IE07S03	G104	0.5	U	
5	2002IE07S04	G106	0.5	U	
6	2002IE07R01	G105	0.5	U	
DATE OF ANALYSIS		5-24-02	05/10/02		
ANALYST		M. Mattox	M. Mattox		

Reviewed by: JG Date: 5/24/02

2002 0058

ENVIRONMENTAL PROTECTION AGENCY 501020
FOR THE TEAM: METALS

DIVISION/BRANCH SUPERFUND SAMPLING DATE 4/15/02 LAB ARRIVAL DATE 4/17/02 DUE DATE 5/14/02

DU NUMBER 501020 DATASET NUMBER 2002 0058 STUDY CHEMBTCO PRIORITY N CONTRACTOR IEPA

CRL LOG NUMBER	SAMPLE DESCRIPTION	MATRIX WATER TEST CO UNITS ME1235826	MATRIX WATER TEST Hg UNITS ME1235826	MATRIX TEST UNITS ME1235826	MATRIX TEST UNITS ME1235826	MATRIX TEST UNITS ME1235826	
2002 IE07							
S01	G101	X	X				5-100780
D01	G102	X	X				5-100781
S02	G103 MS/MSD	X	X				5-100782 5-100808-80
S03	G104	X	X				5-100783
S04	G106	X	X				5-100785
R01	G105	X	X				5-100784

CRL V.2: 3/85

000004

CRL Data Review Qualification Codes

000011

QUALIFIER	DESCRIPTION
B	This flag is used when the analyte is found in the associated ***B***lank as well as the sample. It indicates possible blank contamination and warns the user to take appropriate action while assessing the data. See the case narrative for a discussion of common lab contaminants and/or the relative concentration of contamination in the samples and blanks for relevance.
J	This flag is used when the analyte is estimated due to quality control limit(s) being exceeded. This flag accompanies all GC/MS tentatively identified compounds (TICs). This flag also applies to a suspected, unidentified interference. This flag is placed on affected detected results as well as non-detected (i.e., "U" flagged) results. (***J*** is the flag used in the Superfund CLP SOW and Data Review Functional Guidelines and is used by CRL for consistency.)
M	This flag is used when the analyte is confirmed to be qualitatively present in the sample, extract or digestate, with a quantity at or above the CRL ***M***ethod Detection Limit (MDL) but below the lowest concentration of the calibration curve. This flag indicates the quantitated value is estimated since it falls below the lowest calibration standard in the calibration curve.
N	This flag applies to GC/MS Te***N***tatively Identified Compounds (TICs) that have a mass spectral library match.
Q	This flag applies to analyte data that are severely estimated due to quality control and/or ***Q***uantitation problems, but are confirmed to be qualitatively present in the sample. No value is reported with this qualification flag.
R	This flag applies to analyte data that are ***R***ejected and unusable due to severe quality control, quantitation and/or qualitative identification problems. No other qualification flags are reported for this analyte. No value is reported with this qualification flag.
U	This flag in used when the analyte was analyzed for but ***U***ndetected in the sample. The CRL RL for the analyte accompanies this flag. When the customer requests CRL to report below our RL down to our MDL, undetected analytes are reported with a "U" code and the MDL. As with sample results that are positive, the value is corrected for dry weight, dilution and/or sample weight or volume.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 5 CENTRAL REGIONAL LABORATORY

536 SOUTH CLARK STREET

CHICAGO, ILLINOIS 60605

Date: MAY 2 9 2002

Subject: Review of Region 5 Data for **Chemetco**

From: **R. Dilg, Chemist, ESAT/IITRI** RD 5-23-02 DATE SUBMITTED
Contractor to Region 5 Central Regional Laboratory

To: Bob Casper
ILLINOIS EPA

Attached are the results for: **Chemetco**

CRL data set number: **20020058**

Samples analyzed for: **ICP Metals**

Results are reported for sample designations: **2002IE07S01 - S04, D01, R01**

Sylvia Griffin MAY 2 9 2002

Data Management Coordinator and Date Received

Date Transmitted: MAY 2 9 2002

Please have the U.S. EPA Project Manager/Officer call the CRL Sample Coordinator at 3-7444 for any comments or questions.

Please sign and date this form below and return it with any comments to:

Sylvia Griffin
Data Management Coordinator
Region 5 Central Regional Laboratory
ML-10C

Received by and Date

Comments:

Rev. 4/10/02

Method Number: CRL METALS 003 & METALS 025
Date Generated: April 26, 2002
Author: R.Dilg, IITRI-ESAT

Site Name: Chemetco
Task Order Number: 05-0-02
TDF Number: 5-02-045
Job No.: 102-023 -001
Batch ID No.: 20020058
Parameter: ICP

4-29-02

ICP NARRATIVE

This narrative covers the analysis of 6 water samples from the named site sampled for ICP metals analysis.

Sample Nos.	Sample Station ID's	Sample collected	Analysis dates
2002IE07S01	G101	4-15-2002	4-23-2002
2002IE07D01	G102	4-15-2002	4-23-2002
2002IE07S02	G103	4-15-2002	4-23-2002
2002IE07S03	G104	4-15-2002	4-23-2002
2002IE07S04	G106	4-15-2002	4-23-2002
2002IE07R01	G105	4-15-2002	4-23-2002

The samples were received properly preserved. Routine CRL hot block (water) digestion procedures (CRL Metals 003 and Metals 025) were used to prepare the water samples for GFAA and ICP analysis. The digested samples were analyzed using the Optima 3300 DV ICP unit using analysis run method water_080300_m_ESAT. Optima 3300 DV ICP results were stored to files 20020045 04232002.

ICP RUN RESULTS

Analyte mdl's determined during late summer of 2001 and rl values calculated from that information for ESAT analysis work for the Optima 3300 DV were used. The calculated rl values were used in reporting sample analysis results for this data case.

Analysis RUN 1366 - Optima 3300 DV

29 to 31 analyte lines out of a possible 78 lines available using the Optima 3300 DV method were chosen by a plan agreed upon by Dr. J. V. Morris. These are to be used for routine reporting of analyte values that appear in the QA summary reports.

The following analytes will either not be addressed or only minimally mentioned in this case narrative:

Sn, Tl, As, Se, Sb, Ce, Mo, Pb, Cd, B, Ti, Y, Sr, Li

Two sets of QA / QC summary reports are provided for each analysis run for this deliverable. The first is the traditional set based on "default" QA/ QC limits. The second set is based on control chart (historical / statistically) determined QA/ QC limits. The formats used for the second set are new and may be subject to change for use with future data sets.

Analysis RUN 1366 - Optima 3300 DV (continued)

The following lists the case pertinent out-of-control QC audit check results based on default QA / QC (traditional) limits:

RUN 1366 :

Blanks: (Blank values are truncated rather than rounded)

	Instr blk1:	Ba455	0.44	µg/L
		K 766	176	"
	Digest blk :	Ba455	0.44	"
	Instr blk2:	Ba455	0.4	"
		V 310	- 5.27	"
LCM's:	LCM1 :	Ag328	*	
	LCM1 (2):	Ag328	*	

* upper concentration level exceeded ; LCM2 check audits used for control purposes

RL check Soln: RL 1:

(See paragraph below regarding rl's)

RL 2:

Presently no "control" actions are associated with the observed RL analyte values actually determined during the analysis run. RL check solution values currently are being analyzed for purposes of generating a benchmark set of values which can be used to monitor the appropriateness of any given RL level of analyte concentration.

The following lists the case pertinent out-of-control QC audit check results based on control chart QA / QC (historical) limits. Only those analytes not already previously affected by default QA/ QC limits (see above) will be listed here:

Blanks: (Blank values are truncated rather than rounded)

	Instr blk1:	Mg 280	3.1	µg/L
HiAQC's:	HiAQC 1 :	Fe 259	*	
	HiAQC 2 :	Fe 259	*	

* alternate line used for control purposes

matrix spike: 2002IE07S02: Ag 328 105.4 %R

Analysis RUN 1366 - Optima 3300 DV (continued)

Sample analyte qualifications:

To date, compilation of control chart information is still on-going for some of the instrument check audits from Optima analysis runs. Too little data is currently available for some QA audits. Until such time when compilation and evaluation of QA data is more complete, the following will be used:

Default QA/ QC limits for the digestion blank and instrument blank audits will be used for qualifying sample results. Control chart QA / QC limits and/or default limits for other QA/QC audit checks will be used to qualify sample results. In general, if the "wider" of either the default or the control chart limits is exceeded, then the reported results will be qualified for any given sample analyte result that may be affected. This latter approach has been discussed with Dr. J. V. Morris and it will be employed until a more consistent one is developed and spelled out in an approved SOP dealing with this matter.

As, Sb, Pb, Se, and Tl sample results were not reported by ICP; see GFAA results for these analytes.

For Ag, LCM2 QA check audits were used for control purposes rather than LCM1 check audits since the level of Ag in the LCM1 solutions exceed the upper linear limit for Ag.

The ICP sample results reported for the remaining analytes are usable except as noted in the following paragraphs.

For Ba, the sample result for 2002IE07R01 was flagged "M" since it had a result between the MDL and the rl value and it is estimated because of this. The same sample was flagged "B" indicating it may have been affected by possible contamination indicated by blank analysis data.

For Ca, the sample result for 2002IE07R01 was flagged "M" since it had a result between the MDL and the rl value and it is estimated because of this.

For Cu, the sample result for 2002IE07S03 was flagged "M" since it had a result between the MDL and the rl value and it is estimated because of this.

For Fe, the sample result for 2002IE07R01 was flagged "M" since it had a result between the MDL and the rl value and it is estimated because of this.

For Mg, the level of the sample result for 2002IE07R01 was insignificant compared the levels found for the remaining samples and does not detract from the usability of the Mg data being reported.

For Ni, the sample results for 2002IE07S01, D01, S02, S04, and R01 are flagged "M" since they had a result between the MDL and the rl value and they are estimated because of this.

For Na, the sample result for 2002IE07R01 was flagged "M" since it had a result between the MDL and the rl value and it is estimated because of this.

For Zn, the sample results for 2002IE07S01, D01, S02, and S03 are flagged "M" since they had a result between the MDL and the rl value and they are estimated because of this.

424-0

Other comments

Samples 2001IE01S01 and D01 appear to have been designated as field duplicates. Analyte results exhibit good analytical precision.

R5CRL Files

The following pathways were used for storing analysis information to the R5CRL file server for the this data set:

Optima 3300 DV results:

(Vol2 on 'R5crl')[H:] \IITRI-Metals \Rdilg \20020058 \Icp \Optima 3300DV \Methods_ESAT
(Vol2 on 'R5crl')[H:] \IITRI-Metals \Rdilg \20020058 \Icp \Optima 3300DV \narrative
(Vol2 on 'R5crl')[H:] \IITRI-Metals \Rdilg \20020058 \Icp \Optima 3300DV \Results_ESAT
(Vol2 on 'R5crl')[H:] \IITRI-Metals \Rdilg \20020058 \Icp \Optima 3300DV \SIFs_ESAT
(Vol2 on 'R5crl')[H:] \IITRI-Metals \Rdilg \20020058 \Icp \Optima 3300DV \SS processed data

EPA CRL - REGION V
ICP FINAL RESULTS REPORT

REPORT PRODUCED ON: 24-Apr-02

SAMPLE ORGANIZATION:

SAMPLE BATCH ID: 20020058

LABORATORY: REGION 5 CRL

SAMPLE FACILITY: Chemetco

SAMPLE: 2002IE07S01

ANALYZED: 23-Apr-02

STATION: G101

COMPOUND	AMOUNT		(Units)
Aluminum	67.7		(ug/L)
Barium	109		(ug/L)
Beryllium	2.8	U	(ug/L)
Calcium	69100		(ug/L)
Chromium	1		(ug/L)
Cobalt	4.2	U	(ug/L)
Copper	11.4		(ug/L)
Iron	75.1		(ug/L)
Magnesium	13400		(ug/L)
Manganese	13.9		(ug/L)
Nickel	1.7	M	(ug/L)
Potassium	2360		(ug/L)
Silver	1.7	U	(ug/L)
Sodium	6970		(ug/L)
Vanadium	17	U	(ug/L)
Zinc	20	M	(ug/L)

ANALYZED BY: SN 4-29-02

EPA CRL - REGION V
ICP FINAL RESULTS REPORT

REPORT PRODUCED ON: 24-Apr-02

SAMPLE ORGANIZATION:

SAMPLE BATCH ID: 20020058

LABORATORY: REGION 5 CRL

SAMPLE FACILITY: Chemetco

SAMPLE: 2002IE07D01

ANALYZED: 23-Apr-02

STATION: G102

COMPOUND	AMOUNT		(Units)
Aluminum	62		(ug/L)
Barium	107		(ug/L)
Beryllium	2.8	U	(ug/L)
Calcium	69800		(ug/L)
Chromium	1.3		(ug/L)
Cobalt	4.2	U	(ug/L)
Copper	11.3		(ug/L)
Iron	101		(ug/L)
Magnesium	13200		(ug/L)
Manganese	14.2		(ug/L)
Nickel	1.4	M	(ug/L)
Potassium	2350		(ug/L)
Silver	1.7	U	(ug/L)
Sodium	6820		(ug/L)
Vanadium	17	U	(ug/L)
Zinc	19.1	M	(ug/L)

ANALYZED BY: [illegible] 4-29-02

EPA CRL - REGION V
ICP FINAL RESULTS REPORT

REPORT PRODUCED ON: 24-Apr-02

SAMPLE ORGANIZATION:

SAMPLE BATCH ID: 20020058

LABORATORY: REGION 5 CRL

SAMPLE FACILITY: Chemetco

SAMPLE: 2002IE07S02

ANALYZED: 23-Apr-02

STATION: G103

COMPOUND	AMOUNT		(Units)
Aluminum	84.3		(ug/L)
Barium	530		(ug/L)
Beryllium	2.8	U	(ug/L)
Calcium	134000		(ug/L)
Chromium	0.9	U	(ug/L)
Cobalt	4.2	U	(ug/L)
Copper	6.6		(ug/L)
Iron	3290		(ug/L)
Magnesium	29800		(ug/L)
Manganese	304		(ug/L)
Nickel	1.7	M	(ug/L)
Potassium	5670		(ug/L)
Silver	1.7	U	(ug/L)
Sodium	22500		(ug/L)
Vanadium	17	U	(ug/L)
Zinc	32.9	M	(ug/L)

ANALYZED BY: [illegible] 4-29-02

EPA CRL - REGION V
ICP FINAL RESULTS REPORT

REPORT PRODUCED ON: 24-Apr-02

SAMPLE ORGANIZATION:

SAMPLE BATCH ID: 20020058

LABORATORY: REGION 5 CRL

SAMPLE FACILITY: Chemetco

SAMPLE: 2002IE07S03

ANALYZED: 23-Apr-02

STATION: G104

COMPOUND	AMOUNT		(Units)
Aluminum	106		(ug/L)
Barium	267		(ug/L)
Beryllium	2.8	U	(ug/L)
Calcium	155000		(ug/L)
Chromium	0.9	U	(ug/L)
Cobalt	4.2	U	(ug/L)
Copper	1.5	M	(ug/L)
Iron	1550		(ug/L)
Magnesium	39600		(ug/L)
Manganese	173		(ug/L)
Nickel	3.6		(ug/L)
Potassium	5480		(ug/L)
Silver	1.7	U	(ug/L)
Sodium	38000		(ug/L)
Vanadium	17	U	(ug/L)
Zinc	25.9	M	(ug/L)

ANALYZED BY: RD 4-29-02

EPA CRL - REGION V
ICP FINAL RESULTS REPORT

REPORT PRODUCED ON: 24-Apr-02

SAMPLE ORGANIZATION:

SAMPLE BATCH ID: 20020058

LABORATORY: REGION 5 CRL

SAMPLE FACILITY: Chemetco

SAMPLE: 2002IE07S04

ANALYZED: 23-Apr-02

STATION: G106

COMPOUND	AMOUNT		(Units)
Aluminum	64.5		(ug/L)
Barium	664		(ug/L)
Beryllium	2.8	U	(ug/L)
Calcium	98600		(ug/L)
Chromium	0.9	U	(ug/L)
Cobalt	4.2	U	(ug/L)
Copper	4.4	U	(ug/L)
Iron	14000		(ug/L)
Magnesium	23800		(ug/L)
Manganese	613		(ug/L)
Nickel	1.3	M	(ug/L)
Potassium	3650		(ug/L)
Silver	1.7	U	(ug/L)
Sodium	13300		(ug/L)
Vanadium	17	U	(ug/L)
Zinc	439		(ug/L)

ANALYZED BY: RD 4-29-02

EPA CRL - REGION V
ICP FINAL RESULTS REPORT

REPORT PRODUCED ON: 24-Apr-02

SAMPLE ORGANIZATION:

SAMPLE BATCH ID: 20020058

LABORATORY: REGION 5 CRL

SAMPLE FACILITY: Chemetco

SAMPLE: 2002IE07R01

ANALYZED: 23-Apr-02

STATION: G105

COMPOUND	AMOUNT			(Units)
Aluminum	44	U		(ug/L)
Barium	0.7	M	B	(ug/L)
Beryllium	2.8	U		(ug/L)
Calcium	60.1	M		(ug/L)
Chromium	0.9	U		(ug/L)
Cobalt	4.2	U		(ug/L)
Copper	4.4	U		(ug/L)
Iron	16.5	M		(ug/L)
Magnesium	13.5			(ug/L)
Manganese	8.6	U		(ug/L)
Nickel	1.1	M		(ug/L)
Potassium	482	U		(ug/L)
Silver	1.7	U		(ug/L)
Sodium	156	M		(ug/L)
Vanadium	17	U		(ug/L)
Zinc	36	U		(ug/L)

ANALYZED BY: RD 4-29-02

2002 0058

ENVIRONMENTAL PROTECTION AGENCY
FOR THE TEAM: METALS

501020

DIVISION/BRANCH SUPERFUND SAMPLE DATE 4/15/2002 LAB ARRIVAL DATE 4/17/2002 DUE DATE 5/16/2002

DU NUMBER 501020 DATA SET NUMBER 2002 0058 STUDY CHEMETCO PRIORITY N CONTRACTOR IEPA

CHL LOG NUMBER	SAMPLE DESCRIPTION	TOTAL METALS WATER TOTAL ICAP UG/L MET111	TOTAL METALS WATER AS UG/L MET161	TOTAL METALS WATER PB UG/L MET1181	TOTAL METALS WATER SB UG/L MET1201	TOTAL METALS WATER SE UG/L MET1211	TOTAL METALS WATER TL UG/L MET1221
2002IE07S01	G101 5-100780	X	X	X	X	X	X
D01	G102 5-100781	X	X	X	X	X	X
S02	5-100782/5-100808 G103 MS/MSD 809	X	X	X	X	X	X
S03	G104 5-100783	X	X	X	X	X	X
S04	G106 5-100785	X	X	X	X	X	X
R01	G105 5-100784	X	X	X	X	X	X

4-30-02

4-29-02

CRL Data Review Qualification Codes

QUALIFIER	DESCRIPTION
B	This flag is used when the analyte is found in the associated ***B***lank as well as the sample. It indicates possible blank contamination and warns the user to take appropriate action while assessing the data. See the case narrative for a discussion of common lab contaminants and/or the relative concentration of contamination in the samples and blanks for relevance.
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M	This flag is used when the analyte is confirmed to be qualitatively present in the sample, extract or digestate, with a quantity at or above the CRL ***M***ethod Detection Limit (MDL) but below the lowest concentration of the calibration curve. This flag indicates the quantitated value is estimated since it falls below the lowest calibration standard in the calibration curve.
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R	This flag applies to analyte data that are ***R***ejected and unusable due to severe quality control, quantitation and/or qualitative identification problems. No other qualification flags are reported for this analyte. No value is reported with this qualification flag.
U	This flag in used when the analyte was analyzed for but ***U***ndetected in the sample. The CRL RL for the analyte accompanies this flag. When the customer requests CRL to report below our RL down to our MDL, undetected analytes are reported with a "U" code and the MDL. As with sample results that are positive, the value is corrected for dry weight, dilution and/or sample weight or volume.

03/07/01

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 5 CENTRAL REGIONAL LABORATORY

536 SOUTH CLARK STREET

CHICAGO, ILLINOIS 60605

Date: MAY 2 9 2002

Subject: Review of Region 5 Data for **Chemetco**

From: **Stephen Connet, Chemist, ITTRI/ESAT**
Contractor to Region 5 Central Regional Laboratory
Submitted to EPA on 5-23-02

To: Bob Caspar
ILLINOIS EPA

RECEIVED
MAY 3 1 2002
IEPA-BOL-FSRS

Attached are the results for: **Chemetco**

CRL data set number: **20020058**

Samples analyzed for: **Antimony, Arsenic, Cadmium, Lead, Selenium, Thallium**

Results are reported for sample designations: **2002IE07S01-S04, D01, R01**

Sylvia Griffin MAY 2 9/2002

Data Management Coordinator and Date Received

Date Transmitted: MAY 2 9 2002

Please have the U.S. EPA Project Manager/Officer call the CRL Sample Coordinator at 3-7444 for any comments or questions.

Please sign and date this form below and return it with any comments to:

Sylvia Griffin
Data Management Coordinator
Region 5 Central Regional Laboratory
ML-10C

_____ / /

Received by and Date

Comments:

Rev. 4/10/02

Method: GFAA for Water
Site: Chemetco
Date: May 2, 2002
Prepared by: Stephen Connet

TDF: 5-02-045
IITRI Job #: 249-0-1476-102-023-001
Task Order #: 05-0-02
Data Set: 20020058

NARRATIVE

Six (6) water samples for the Chemetco site [2002IE07S01 (G101), D01 (G102), S02 (G103), S03 (G104), S04 (G106), R01 (G105)] were collected on April 15, 2002 and received properly preserved by CRL on April 17, 2002. The samples were submitted to ESAT for analysis of antimony, arsenic, cadmium, lead, selenium, and thallium by GFAA.

The samples were digested following standard CRL 200.2 hot block water digestion protocols (CRL SOP METALS025) on April 22, 2002 (digestion batch 1366). Analyses were performed using 200.9 methods on the SIMAA 6000 (CRL SOP METALS017) using multi-element programs except for antimony and thallium, which were analyzed using the single element programs.

Samples S01 and D01 are field duplicates which show good correlation. No qualifications are made for field duplicates. Although the duplicate difference for antimony was greater than the MDL, both values were below the detection limit and the difference is considered acceptable. The duplicate difference for cadmium is greater than the MDL; however, both sample and duplicate results are from 2X dilutions. The duplicate difference for cadmium is acceptable. All other QC were within limits; all sample results are acceptable. All samples were analyzed within the holding time limit.

Non-detect results are reported to the reporting limit (RL). Results between the method detection limit (MDL) and the RL are reported as the instrument value with an "M" flag. The presence of interference required some samples to be diluted in order to meet analytical spike recovery criteria. The following reported values are adjusted for dilution: S02 and S04 for cadmium; S01, D01, S02, S03 and S04 for selenium; S02, S03 and S04 for thallium. Where appropriate, reported values are dilution corrected.

Analytical results and summaries were stored in the following database files:
H:\r5crl\vol3\metals\sconnet\20020058\6000-Sb\042602A for antimony,
H:\r5crl\vol3\metals\sconnet\20020058\6000-AsSe\042502 for arsenic and selenium,
H:\r5crl\vol3\metals\sconnet\20020058\6000-CdPb\050102 for cadmium and lead,
H:\r5crl\vol3\metals\sconnet\20020058\6000-Tl\042902 for thallium.

This narrative and the Results/QC Summary spreadsheet are stored in:
H:\r5crl\vol3\metals\sconnet\20020058\Reports\GFAA Narrative.wpd
H:\r5crl\vol3\metals\sconnet\20020058\Reports\058 QC Report.123

Logbook entries for this metals analysis can be found in IITRI logbook C31604 page 15.

Since RLIMS was unavailable, the AA metals analysis results are reported in a Lotus spreadsheet only. Time will be necessary in the future to enter all analysis results into RLIMS.

5-3-02

ENVIRONMENTAL PROTECTION AGENCY
REGION V
CENTRAL REGIONAL LABORATORY
FINAL RESULT REPORT FOR THE TEAM: METALS

DIVISION/BRANCH:	**SUPERFUND**	STUDY:	**CHEMETCO**	SAMPLING DATE:	**04/15/02**
DU NUMBER:	**50102D**	PRIORITY:	**ROUTINE**	LAB ARRIVAL DATE:	**04/17/02**
DATASET NUMBER:	**20020058**	LABORATORY:	**ESAT**	DUE DATE:	**05/28/02**

	CRL LOG NUMBER	SAMPLE DESCRIPTION	WATER Antimony (ug/L)	WATER Arsenic (ug/L) <2	WATER Cadmium (ug/L)	WATER Lead (ug/L)	WATER Selenium (ug/L)	WATER Thallium (ug/L)
1	2002IE07S01	G101	4 U	5.9	0.3 U	2 U	8 U	2 U
2	2002IE07D01	G102	4 U	6.1	0.3 U	2 U	8 U	2 U
3	2002IE07S02	G103	4 U	5.1	0.6 U	0.6 M	8 U	6 U
4	2002IE07S03	G104	4 U	1.3 M	0.3 U	2 U	12 U	4 U
5	2002IE07S04	G106	4 U	0.5 M	0.9 U	0.7 M	8 U	4 U
6	2002IE07R01	G105	4 U	2 U	0.3 U	2 U	4 U	2 U
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
	(UNDILUTED)	Reporting Limit	4	2	0.3	2	4	2
DATE OF ANALYSIS			04/26/02	04/25/02	05/01/02	05/01/02	04/25/02	04/29/02
ANALYST		5-8-02	S. Connet	S. Connet	S. Connet	S. Connet	S. Connet	S. Connet

Reviewed By: [signature] Date: 5-16-02

000008

2002 0058

ENVIRONMENTAL PROTECTION AGENCY
FOR THE TEAM: METALS

50102D

DIVISION/BRANCH SUPERFUND SAMPLE DATE 4/15/2002 LAB ARRIVAL DATE 4/17/2002 DUE DATE 5/16/2002

DU NUMBER 50102D DATA SET NUMBER 2002 0058 STUDY CHEMET CO PRIORITY N CONTRACTOR IGPA

CRL LOG NUMBER	SAMPLE DESCRIPTION	TOTAL METALS WATER TOTAL ICAP UG/L MET111	TOTAL METALS WATER AS UG/L MET181	TOTAL METALS WATER PB UG/L MET1181	TOTAL METALS WATER SB UG/L MET1201	TOTAL METALS WATER SE UG/L MET1211	TOTAL METALS WATER TL UG/L MET1221
2002IE07S01	G101 5-100780	X	X	X	X	X	X
D01	G102 5-100781	X	X	X	X	X	X
S02	5-100782/5-100808-809 G103/MS/MSD	X	X	X	X	X	X
S03	G104 5-100783	X	X	X	X	X	X
S04	G106 5-100785	X	X	X	X	X	X
R01	G105 5-100784	X	X	X	X	X	X

000002

2002 AR58 501020

ENVIRONMENTAL PROTECTION AGENCY
FOR THE TEAMS METALS

DIVISION/BRANCH SUPERFUND SAMPLING DATE 4/15/02 LAB ARRIVAL DATE 4/17/02 DUE DATE 5/16/02

DO NUMBER 501020 DATASET NUMBER 2002058 STUDY CHEMBTCO PRIORITY N CONTRACTOR IEPA

CRL LOG NUMBER	SAMPLE DESCRIPTION	MATRIX WATER TEST CD UNITS PE1235826	MATRIX WATER TEST Hg UNITS PE1235826	MATRIX TEST UNITS PE1235826	MATRIX TEST UNITS PE1235826	MATRIX TEST UNITS PE1235826	
002 IE07							5-100780
S01	G101	X	X				5-100781
D01	G102	X	X				5-100782
S02	G103 MS/MSD	X	X				5-100808-8
S03	G104	X	X				5-100785
S04	G106	X	X				5-100785
R01	G105	X	X				5-100784

CRL V.2: 3/85

400004 4-17-02

CRL Data Review Qualification Codes

QUALIFIER	DESCRIPTION
B	This flag is used when the analyte is found in the associated ***B***lank as well as the sample. It indicates possible blank contamination and warns the user to take appropriate action while assessing the data. See the case narrative for a discussion of common lab contaminants and/or the relative concentration of contamination in the samples and blanks for relevance.
J	This flag is used when the analyte is estimated due to quality control limit(s) being exceeded. This flag accompanies all GC/MS tentatively identified compounds (TICs). This flag also applies to a suspected, unidentified interference. This flag is placed on affected detected results as well as non-detected (i.e., "U" flagged) results. (***J*** is the flag used in the Superfund CLP SOW and Data Review Functional Guidelines and is used by CRL for consistency.)
M	This flag is used when the analyte is confirmed to be qualitatively present in the sample, extract or digestate, with a quantity at or above the CRL ***M***ethod Detection Limit (MDL) but below the lowest concentration of the calibration curve. This flag indicates the quantitated value is estimated since it falls below the lowest calibration standard in the calibration curve.
N	This flag applies to GC/MS Te***N***tatively Identified Compounds (TICs) that have a mass spectral library match.
Q	This flag applies to analyte data that are severely estimated due to quality control and/or ***Q***uantitation problems, but are confirmed to be qualitatively present in the sample. No value is reported with this qualification flag.
R	This flag applies to analyte data that are ***R***ejected and unusable due to severe quality control, quantitation and/or qualitative identification problems. No other qualification flags are reported for this analyte. No value is reported with this qualification flag.
U	This flag in used when the analyte was analyzed for but ***U***ndetected in the sample. The CRL RL for the analyte accompanies this flag. When the customer requests CRL to report below our RL down to our MDL, undetected analytes are reported with a "U" code and the MDL. As with sample results that are positive, the value is corrected for dry weight, dilution and/or sample weight or volume.

03/07/01