LPC# 1030200008
DIXON MUNICIPAL DUMP
LEE COUNTY
DIXON, ILLINOIS
ILD 981 196 686
SUPERFUND/HRS
VOLUME 2 OF 2

CERCLA

Analytical Results

Illinois Environmental
Protection Agency

EPA Region 5 Records Ctr.
311270

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 5 CENTRAL REGIONAL LABORATORY

536 SOUTH CLARK STREET

CHICAGO, ILLINOIS 60605

Date: JAN 0 8 2003

Subject: Review of Region 5 Data for **Dixon Municipal Landfill**

From: **Stephen Connet, Chemist, IITRI/ESAT**
Contractor to Region 5 Central Regional Laboratory
Submitted to CRL on 1-8-03

To:

Attached are the results for: **Dixon Municipal Landfill**

CRL data set number: **E2K1502**

Samples analyzed for: **GFAA Antimony, Arsenic, Cadmium, Lead, Selenium, Thallium**

Results are reported for sample designations: **E2K1502-01 thru -04**

RECEIVED
JAN 1 3 2003
EPA-BOL-FSRS

Sylvia Griffin JAN 08 2003

Data Management Coordinator and Date Received

Date Transmitted: JAN 08 2003

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: Dixon Municipal LF
Date: December 27, 2002
Prepared by: Stephen Connet

TDF: 5-02-085
IITRI Job #: 249-0-1476-102-013-002
Task Order #: 05-0-02
Data Set: E2K1502

NARRATIVE

Four (4) water samples from the Dixon Municipal Landfill site were collected on November 13-14, 2002 and were properly preserved by CRL on November 15, 2002. The samples were submitted to ESAT for analysis of antimony, arsenic, cadmium, lead, selenium, and thallium by GFAA. The sample point identifications are on the page following this narrative.

The samples were digested following standard CRL 200.2 hot block water digestion protocols (CRL SOP METALS025) on November 27, 2002 (digestion batch EK22104). 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. Due to QC problems, cadmium was reanalyzed on the PE5100 using method 213.2 (CRL SOP METALS022). The concentrations for the LCS and matrix spike were changed per Dr. J. V. Morris of CRL. QC limits are based on ESAT control limits.

Samples E2K1502-02/-03 are field duplicates and show good correlation. E2K0101-02 is a field blank. No contamination was present in it. Although the lead matrix spike recovery was above the upper ESAT acceptance limit indicating a high bias, all samples were non-detects and are not considered affected. 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 "J" 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: E2K1502-02 and -03 for arsenic; E2K1502-01 for lead; E2K1502-01 for selenium; E2K1502-01 for thallium. Where appropriate, reported values are dilution corrected.

Analytical results, narrative, QC forms and run summaries were stored in the following database files:
Path: R5CRL\VOL2\IITRI-METALS\SCONNET\E2K1502
Results: \6000-Sb\120502 for antimony,
\6000-AsSe\120202 and \120302 for arsenic and selenium,
\5100-Cd\122602 for cadmium,
\6000-CdPb\122402 for lead,
\6000-Tl\120902 and \121012 for thallium.
Narrative: \Reports\Narrative.wpd
QC Forms: \Reports\QC Report.123
Run Summaries: \Reports\Run Summary.123

Results and digestion/matrix QC forms are provided as LIMS generated forms. Logbook entries for this metals analysis can be found in IITRI logbook C31629 pages 11-13. Raw data for all analytical runs except cadmium can be found in the data package for E2K1401.

1-7-03

IITRI
IIT RESEARCH INSTITUTE

IIT Research Institute ESAT Region 5
536 South Clark Street, Suite 734; Chicago, IL 60605
Telephone (312) 353-8302 Facsimile (312) 353-8307

Superfund, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Dixon Municipal Landfill Project Number: 2003IE04 Project Manager: Howard Pham	Reported: Jan-06-03 09:30

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
2003IE04S01-G201	E2K1502-01	Water	Nov-13-02 11:35	Nov-15-02 15:19
2003IE04S02-G202	E2K1502-02	Water	Nov-13-02 13:55	Nov-15-02 15:19
2003IE04D02-G202D	E2K1502-03	Water	Nov-13-02 13:55	Nov-15-02 15:19
2003IE04R01-G203	E2K1502-04	Water	Nov-14-02 11:50	Nov-15-02 15:19

1-6-03

000007

Stephen Cornet, Chemist

IITRI
IIT RESEARCH INSTITUTE

IIT Research Institute ESAT Region 5
536 South Clark Street, Suite 734; Chicago, IL 60605
Telephone (312) 353-8302 Facsimile (312) 353-8307

Superfund, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Dixon Municipal Landfill Project Number: 2003IE04 Project Manager: Howard Pham	**Reported:** Jan-06-03 09:30

Metals by GFAA
IITRI - ESAT Contract

2003IE04S01-G201 (E2K1502-01) Water Sampled: Nov-13-02 11:35 Received: Nov-15-02 15:19

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Antimony	U		1.0	4.0	ug/L	1	EK22104	Nov-27-0	Dec-05-02
Arsenic	U		0.5	2.0	"	"	"	"	Dec-02-02
Cadmium	U		0.1	0.3	"	"	"	"	Dec-26-02
Lead	U		1.0	4.0	"	2	"	"	Dec-24-02
Selenium	U		2.0	8.0	"	"	"	"	Dec-02-02
Thallium	U		1.0	4.0	"	"	"	"	Dec-09-02

2003IE04S02-G202 (E2K1502-02) Water Sampled: Nov-13-02 13:55 Received: Nov-15-02 15:19

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Antimony	U		1.0	4.0	ug/L	1	EK22104	Nov-27-0	Dec-05-02
Arsenic	U		1.5	6.0	"	3	"	"	Dec-03-02
Cadmium	U		0.1	0.3	"	1	"	"	Dec-26-02
[illegible]d	U		0.5	2.0	"	"	"	"	Dec-24-02
[illegible]ium	U		1.0	4.0	"	"	"	"	Dec-02-02
Thallium	U		0.5	2.0	"	"	"	"	Dec-09-02

2003IE04D02-G202D (E2K1502-03) Water Sampled: Nov-13-02 13:55 Received: Nov-15-02 15:19

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Antimony	U		1.0	4.0	ug/L	1	EK22104	Nov-27-0	Dec-05-02
Arsenic	U		1.5	6.0	"	3	"	"	Dec-03-02
Cadmium	**0.1**	J	0.1	0.3	"	1	"	"	Dec-26-02
Lead	U		0.5	2.0	"	"	"	"	Dec-24-02
Selenium	U		1.0	4.0	"	"	"	"	Dec-02-02
Thallium	U		0.5	2.0	"	"	"	"	Dec-09-02

2003IE04R01-G203 (E2K1502-04) Water Sampled: Nov-14-02 11:50 Received: Nov-15-02 15:19

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Antimony	U		1.0	4.0	ug/L	1	EK22104	Nov-27-0	Dec-05-02
Arsenic	U		0.5	2.0	"	"	"	"	Dec-02-02
Cadmium	U		0.1	0.3	"	"	"	"	Dec-26-02
Lead	U		0.5	2.0	"	"	"	"	Dec-24-02
Selenium	U		1.0	4.0	"	"	"	"	Dec-02-02

1-6-03

000008

Stephen Connet, Chemist

IITRI
IIT RESEARCH INSTITUTE

IIT Research Institute ESAT Region 5
536 South Clark Street, Suite 734; Chicago, IL 60605
Telephone (312) 353-8302 Facsimile (312) 353-8307

Superfund, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Dixon Municipal Landfill Project Number: 2003IE04 Project Manager: Howard Pham	**Reported:** Jan-06-03 09:30

Metals by GFAA
IITRI - ESAT Contract

2003IE04R01-G203 (E2K1502-04) Water Sampled: Nov-14-02 11:50 Received: Nov-15-02 15:19

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Thallium	U		0.5	2.0	ug/L	1	EK22104	Nov-27-0	Dec-09-02

1-6-03

Stephen Connet, Chemist

000009

IITRI
IIT RESEARCH INSTITUTE

IIT Research Institute ESAT Region 5
536 South Clark Street, Suite 734; Chicago, IL 60605
Telephone (312) 353-8302 Facsimile (312) 353-8307

Superfund, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Dixon Municipal Landfill Project Number: 2003IE04 Project Manager: Howard Pham	**Reported:** Jan-06-03 09:30

Notes and Definitions

J	The identification of the analyte is acceptable; the reported value is an estimate.
K	The identification of the analyte is acceptable; the reported value may be biased high. The actual value is expected to be less than the reported value.
U	Not Detected
NR	Not Reported

1-6-03

000010

Stephen Connet, Chemist

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 5 CENTRAL REGIONAL LABORATORY

536 SOUTH CLARK STREET

CHICAGO, ILLINOIS 60605

Date: JAN 0 8 2003

Subject: Review of Region 5 Data for **Dixon Municipal Landfill (Dixon, IL)**

From: **Marjorie Mattox, Chemist, ESAT/IITRI**
Contractor to Region 5 Central Regional Laboratory
Submitted to EPA: Marjorie L. Mattox 1-8-03

To:

Attached are the results for: **Dixon Municipal Landfill (Dixon, IL)**

CRL data set number: **E2K1502**

Samples analyzed for: **Cyanide**

Results are reported for sample designations: **E2K1502-01 to -04**

RECEIVED
JAN 1 3 2003
IEPA-BOL-FSRS

Sylvia Griffin JAN 08 2003

Data Management Coordinator and Date Received

Date Transmitted: JAN 08 2003

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 03/18/02)
Analyst: M. Mattox M.Mattox
Date: December 31, 2002 12-31-02

Data Set: E2K1502
TDF: 5-02-085
JOB: 249-0-1476-102-013-002
Task Order: 05-0-02

NARRATIVE

000007

Four (4) water samples from the Dixon Municipal Landfill site (work order E2K1502) were collected on November 13-14, 2002 . The samples were received properly preserved on November 15, 2002.

LIMS ID	CRL ID	Station ID	Additional ID
E2K1502-01	2003IE04S01	G201	ME01J2
E2K1502-02	2003IE04S02	G202	ME01J4
E2K1502-03	2003IE04D02	G202D	ME01J5
E2K1502-04	2003IE04R01	G203	ME01K1

These four samples were assigned to ESAT for cyanide analysis. All samples were analyzed within the 14 day holding time limit. A predistillation check for sulfide and chlorine showed negative results.

Distillation was performed on the Easy Still unit on November 25, 2002 and analyzed later that day as LIMS batch EK22502. All matrix and instrument QC were acceptable. All sample results are acceptable.

A detailed history of the distillation and analysis can be found in the instrument log book and IITRI log book C31611.

Samples E2K1502-02/03, appear to be a field duplicate pair showing good correlation.

Sample E2K1502-04 appears to be a field blank showing no contamination.

Analytical final results were stored in the following database files:
R5crl\vol2\iitri-aig\mmattox\LACHET 2(SN 1327)\Cyanide-T\E2K1502\Lachet 2\112502C (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\E2K1502\Lachet 2\Data

The narrative, spreadsheet, and QC summary are stored in file folder
R5crl\vol2\iitri-aig\mmattox\Cyanide-T\E2K1502\CN Reports

At this time RLIMS is available and a RLIMS report is submitted for your review. In addition, WordPerfect reports were generated but not included as part of the deliverable.

IITRI
IIT RESEARCH INSTITUTE

IIT Research Institute ESAT Region 5
536 South Clark Street, Suite 734; Chicago, IL 60605
Telephone (312) 353-8302 Facsimile (312) 353-8307

Superfund, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Dixon Municipal Landfill Project Number: 2003IE04 Project Manager: Howard Pham	**Reported:** Jan-07-03 10:52

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
2003IE04S01-G201	E2K1502-01	Water	Nov-13-02 11:35	Nov-15-02 15:19
2003IE04S02-G202	E2K1502-02	Water	Nov-13-02 13:55	Nov-15-02 15:19
2003IE04D02-G202D	E2K1502-03	Water	Nov-13-02 13:55	Nov-15-02 15:19
2003IE04R01-G203	E2K1502-04	Water	Nov-14-02 11:50	Nov-15-02 15:19

M. Mattox 1-7-03
Margie Mattox, Chemist

IITRI
IIT RESEARCH INSTITUTE

IIT Research Institute ESAT Region 5
536 South Clark Street, Suite 734; Chicago, IL 60605
Telephone (312) 353-8302 Facsimile (312) 353-8307

Superfund, US EPA Region 5	Project: Dixon Municipal Landfill	
77 West Jackson Boulevard	Project Number: 2003IE04	Reported:
Chicago IL, 60604	Project Manager: Howard Pham	Jan-07-03 10:52

Automated Colorimetric Analyses
IITRI - ESAT Contract

2003IE04S01-G201 (E2K1502-01) Water Sampled: Nov-13-02 11:35 Received: Nov-15-02 15:19

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Cyanide (total)	U		2	8	ug/L	1	EK22502	Nov-25-0	Nov-25-02

2003IE04S02-G202 (E2K1502-02) Water Sampled: Nov-13-02 13:55 Received: Nov-15-02 15:19

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Cyanide (total)	U		2	8	ug/L	1	EK22502	Nov-25-0	Nov-25-02

2003IE04D02-G202D (E2K1502-03) Water Sampled: Nov-13-02 13:55 Received: Nov-15-02 15:19

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Cyanide (total)	U		2	8	ug/L	1	EK22502	Nov-25-0	Nov-25-02

2003IE04R01-G203 (E2K1502-04) Water Sampled: Nov-14-02 11:50 Received: Nov-15-02 15:19

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Cyanide (total)	U		2	8	ug/L	1	EK22502	Nov-25-0	Nov-25-02

M. Mattox 1-7-03
Margie Mattox, Chemist

IITRI
IIT RESEARCH INSTITUTE

IIT Research Institute ESAT Region 5
536 South Clark Street, Suite 734; Chicago, IL 60605
Telephone (312) 353-8302 Facsimile (312) 353-8307

Superfund, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Dixon Municipal Landfill Project Number: 2003IE04 Project Manager: Howard Pham	**Reported:** Jan-07-03 10:52

Notes and Definitions

U	Not Detected
NR	Not Reported

M. Mattox 1-7-03
Margie Mattox, Chemist

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 5 CENTRAL REGIONAL LABORATORY

536 SOUTH CLARK STREET

CHICAGO, ILLINOIS 60605

Date: JAN 08 2003

Subject: Review of Region 5 Data for **Dixon Municipal Landfill (Dixon, IL)**

From: **Marjorie Mattox, Chemist, ESAT/IITRI**
Contractor to Region 5 Central Regional Laboratory
Submitted to EPA: Marjorie L. Mattox 1-8-03

To:

Attached are the results for: **Dixon Municipal Landfill (Dixon, IL)**

CRL data set number: **E2K1502**

Samples analyzed for: **Mercury**

Results are reported for sample designations: **E2K1502-01 to -04**

RECEIVED
JAN 13 2003
IEPA-BOL-FSRS

Sylvia Griffin JAN 2003

Data Management Coordinator and Date Received

Date Transmitted: JAN 08 2003

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: December 31, 2002 12-31-02

Data Set: E2K1502
TDF: 5-02-085
JOB: 249-0-1476-102-013-002
Task Order: 05-0-02

NARRATIVE

000007

Four (4) water samples from the Dixon Municipal Landfill site (work order E2K1502) were collected on November 13-14, 2002. The samples were received properly preserved on November 15, 2002.

LIMS ID	CRL ID	Station ID	Additional ID
E2K1502-01	2003IE04S01	G201	ME01J2
E2K1502-02	2003IE04S02	G202	ME01J4
E2K1502-03	2003IE04D02	G202D	ME01J5
E2K1502-04	2003IE04R01	G203	ME01K1

All samples were analyzed within the 28 day holding time limit. Samples were digested on December 9, 2002. Analysis was completed on December 11, 2002 as LIMS batch EL21101. All QC was acceptable, therefore all results are acceptable.

The samples were digested by adding the acid mixture, potassium permanganate, and potassium persulfate manually. The samples were then covered during the digestion. Digestion was done by heating the batch at 95 degrees in a water bath for two hours. This procedure was done in accordance with an SOP modification dated June 26, 2002. The hydroxylamine solution was manually added prior to analysis.

Details of this analysis can be found in the EPA instrument logbook and in the IITRI logbook number C31626.

Samples E2K1502-02/03 appear to be a field duplicate pair, the two samples show good correlation.

Sample E2K1502-04 appears to be a field blank showing no contamination.

The narrative, spreadsheet, and QC summary are stored in file folder:
r5crl\vol2\iitri-aig\mmattox\PSAMercury\Hg Water\E2K1502

Analytical final results were stored in the following database file:
r5crl\vol2\iitri-aig\mmattox\PSAMercury\Hg Water\E2K1502\121102 (Each analytical run is stored as a text file directly from the instrument and also as a Lotus spreadsheet).

Results have been entered into RLIMS and matrix and digestion QC are reported on RLIMS generated reports. Instrument QC are reported in a separate WordPerfect report.

IITRI
IIT RESEARCH INSTITUTE

IIT Research Institute ESAT Region 5
536 South Clark Street, Suite 734; Chicago, IL 60605
Telephone (312) 353-8302 Facsimile (312) 353-8307

Superfund, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Dixon Municipal Landfill Project Number: 2003IE04 Project Manager: Howard Pham	**Reported:** Jan-07-03 10:53

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
2003IE04S01-G201	E2K1502-01	Water	Nov-13-02 11:35	Nov-15-02 15:19
2003IE04S02-G202	E2K1502-02	Water	Nov-13-02 13:55	Nov-15-02 15:19
2003IE04D02-G202D	E2K1502-03	Water	Nov-13-02 13:55	Nov-15-02 15:19
2003IE04R01-G203	E2K1502-04	Water	Nov-14-02 11:50	Nov-15-02 15:19

M. Mattox 1-7-03
Margie Mattox, Chemist

IITRI
IIT RESEARCH INSTITUTE

IIT Research Institute ESAT Region 5
536 South Clark Street, Suite 734; Chicago, IL 60605
Telephone (312) 353-8302 Facsimile (312) 353-8307

Superfund, US EPA Region 5	Project: Dixon Municipal Landfill	
77 West Jackson Boulevard	Project Number: 2003IE04	Reported:
Chicago IL, 60604	Project Manager: Howard Pham	Jan-07-03 10:53

Cold Vapor Analyses
IITRI - ESAT Contract

2003IE04S01-G201 (E2K1502-01) Water Sampled: Nov-13-02 11:35 Received: Nov-15-02 15:19

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Mercury	U		0.1	0.5	ug/L	1	EL21101	Dec-09-02	Dec-11-02

2003IE04S02-G202 (E2K1502-02) Water Sampled: Nov-13-02 13:55 Received: Nov-15-02 15:19

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Mercury	U		0.1	0.5	ug/L	1	EL21101	Dec-09-02	Dec-11-02

2003IE04D02-G202D (E2K1502-03) Water Sampled: Nov-13-02 13:55 Received: Nov-15-02 15:19

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Mercury	U		0.1	0.5	ug/L	1	EL21101	Dec-09-02	Dec-11-02

2003IE04R01-G203 (E2K1502-04) Water Sampled: Nov-14-02 11:50 Received: Nov-15-02 15:19

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Mercury	U		0.1	0.5	ug/L	1	EL21101	Dec-09-02	Dec-11-02

M. Mattox 1-7-03
Margie Mattox, Chemist

IITRI
IIT RESEARCH INSTITUTE

IIT Research Institute ESAT Region 5
536 South Clark Street, Suite 734; Chicago, IL 60605
Telephone (312) 353-8302 Facsimile (312) 353-8307

000010

Superfund, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Dixon Municipal Landfill Project Number: 2003IE04 Project Manager: Howard Pham	**Reported:** Jan-07-03 10:50

Notes and Definitions

U	Not Detected
NR	Not Reported

M. Mattox 1-7-03
Margie Mattox, Chemist

DATE: December 10, 2002

DEC 16 2002

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

Attn: Bob Casper

SITE NAME: Dixon Municipal Dump

CASE NO.	LAB	NO. OF SAMPLES	SDG	MATRIX
31180	Chemtech	15	ME01H0	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

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

DEC 1 0 2002

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE: December 10, 2002

SUBJECT: Review of Data
Received for Review on December 6, 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: Dixon Municipal Dump

CASE NUMBER: 31180 SDG NUMBER: ME01H0

Number and Type of Samples: 15 soils

Sample Numbers: ME01H0-9; ME01J0,1,3,8; ME01L3

Laboratory: Chemtech Hrs. for Review: 2

Following are our findings:

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

Case Number : 31180
Site Name: Dixon Municipal LF

SDG Number: ME01H0
Laboratory: Chemtech

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

Fifteen soil samples numbered ME01H0-9, ME01J0, ME01J1, ME01J3, ME01J8, and ME01L3 were collected on November 12-14, 2002. The lab received the samples on November 15, 2002 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: December 10, 2002

Case Number : 31180
Site Name: Dixon Municipal LF

SDG Number: ME01H0
Laboratory: Chemtech

1. HOLDING TIME:

Holding Time Report

SDG NO: ME01H0

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-275: The inorganic cyanide samples exceeded holding time criteria > 14 days. Results are biased low. The cyanide results greater than the IDL are estimated "J" due to unknown bias; the results below the IDL are unusable "R".

ME01H0, ME01H1, ME01H2, ME01H3, ME01H3D, ME01H3S
ME01H4, ME01H5, ME01H6, ME01H7, ME01H8

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

ME01H0, ME01H1, ME01H2, ME01H3, ME01H3D, ME01H3S
ME01H4, ME01H5, ME01H6, ME01H7, ME01H8, ME01H9
ME01J0, ME01J1, ME01J3, ME01J8, ME01L3

2. CALIBRATIONS:

Calibration Report

SDG NO: ME01H0

CALIBRATION CRITERIA

Inorganic

Percent Recovery Limits

	--- Primary ---		-- Expanded ---	
	Low	High	Low	High
Cyanide	85.00	115.00	70.00	130.00

Assembled By: ESAT
Date: December 10, 2002

Case Number : 31180
Site Name: Dixon Municipal LF

SDG Number: ME01H0
Laboratory: Chemtech

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

SDG NO: ME01H0

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

Arsenic
ME01H0, ME01H1, ME01H2, ME01H3, ME01H4, ME01H5
ME01H6, ME01H7, ME01H8, ME01H9, ME01J0, ME01J1
ME01J3, ME01J8, ME01L3, PBS02

Selenium
ME01H0, ME01H1, ME01H2, ME01H3, ME01H4, ME01H5
ME01H6, ME01H7, ME01H8, ME01H9, ME01J0, ME01J1
ME01J3, ME01J8, ME01L3, PBS02

Thallium
ME01H0, ME01H1, ME01H2, ME01H3, ME01H4, ME01H5
ME01H6, ME01H7, ME01H8, ME01H9, ME01J0, ME01J1
ME01J3, ME01J8, ME01L3, PBS02

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

Beryllium
ME01H0, ME01H1, ME01H2, ME01H3, ME01H4, ME01H5
ME01H6, ME01H7, ME01H8, ME01H9, ME01J0, ME01J1
ME01J3, ME01J8, ME01L3, PBS02

Copper
ME01H0, ME01H1, ME01H2, ME01H3, ME01H4, ME01H5
ME01H6, ME01H7, ME01H8, ME01H9, ME01J0, ME01J1
ME01J3, ME01J8, ME01L3, PBS02

Lead
ME01H0, ME01H1, ME01H2, ME01H3, ME01H4, ME01H5
ME01H6, ME01H7, ME01H8, ME01H9, ME01J0, ME01J1
ME01J3, ME01J8, ME01L3, PBS02

Manganese
ME01H0, ME01H1, ME01H2, ME01H3, ME01H4, ME01H5
ME01H6, ME01H7, ME01H8, ME01H9, ME01J0, ME01J1
ME01J3, ME01J8, ME01L3, PBS02

Vanadium
ME01H0, ME01H1, ME01H2, ME01H3, ME01H4, ME01H5
ME01H6, ME01H7, ME01H8, ME01H9, ME01J0, ME01J1
ME01J3, ME01J8, ME01L3, PBS02

Zinc
ME01H0, ME01H1, ME01H2, ME01H3, ME01H4, ME01H5
ME01H6, ME01H7, ME01H8, ME01H9, ME01J0, ME01J1

Assembled By: ESAT
Date: December 10, 2002

Case Number : 31180
Site Name: Dixon Municipal LF

SDG Number: ME01H0
Laboratory: Chemtech

ME01J3, ME01J8, ME01L3, PBS02

3. BLANKS:

Laboratory Blanks Report

SDG NO: ME01H0

LABORATORY BLANKS CRITERIA

DC-283: The following inorganic samples are associated with a blank analyte with negative concentration whose absolute value is greater than the instrument detection limit (IDL). Professional judgement should be used to qualify the data.

ME01H0
Aluminum, Arsenic, Barium, Cadmium
Calcium, Cobalt, Magnesium, Manganese
Nickel

ME01H1
Aluminum, Arsenic, Barium, Cadmium
Calcium, Cobalt, Magnesium, Manganese
Nickel

ME01H2
Aluminum, Arsenic, Barium, Cadmium
Calcium, Cobalt, Magnesium, Manganese
Nickel

ME01H3
Aluminum, Arsenic, Barium, Cadmium
Calcium, Cobalt, Magnesium, Manganese
Nickel, Thallium

ME01H3A
Antimony

ME01H3D
Aluminum, Arsenic, Barium, Cadmium
Calcium, Cobalt, Magnesium, Manganese
Nickel, Thallium

ME01H3S
Arsenic, Barium, Cadmium, Cobalt
Manganese, Nickel, Thallium

ME01H4
Aluminum, Arsenic, Barium, Cadmium
Calcium, Cobalt, Magnesium, Manganese
Nickel

ME01H5
Aluminum, Arsenic, Barium, Cadmium
Calcium, Cobalt, Magnesium, Manganese
Nickel

ME01H6

Assembled By: ESAT
Date: December 10, 2002

Aluminum, Arsenic, Barium, Cadmium
Calcium, Cobalt, Magnesium, Manganese
Nickel

ME01H7
Aluminum, Arsenic, Barium, Cadmium
Calcium, Cobalt, Magnesium, Manganese
Nickel

ME01H8
Aluminum, Arsenic, Barium, Cadmium
Calcium, Cobalt, Magnesium, Manganese
Nickel

ME01H9
Aluminum, Arsenic, Barium, Cadmium
Calcium, Cobalt, Magnesium, Manganese
Nickel

ME01J0
Aluminum, Arsenic, Barium, Cadmium
Calcium, Cobalt, Magnesium, Manganese
Nickel

ME01J1
Aluminum, Arsenic, Barium, Cadmium
Calcium, Cobalt, Magnesium, Manganese
Nickel

ME01J3
Aluminum, Arsenic, Barium, Cadmium
Calcium, Cobalt, Magnesium, Manganese
Nickel

ME01J8
Aluminum, Arsenic, Barium, Cadmium
Calcium, Cobalt, Magnesium, Manganese
Nickel

ME01L3
Aluminum, Arsenic, Barium, Cadmium
Calcium, Cobalt, Magnesium, Manganese
Nickel

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

ME01H0, ME01H1, ME01H2, ME01H3, ME01H3D, ME01H3S
ME01H4, ME01H5, ME01H6, ME01H7, ME01H8, ME01H9
ME01J0, ME01J1, ME01J3, ME01J8, ME01L3

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

Matrix Spike Report

SDG NO: ME01H0

MATRIX SPIKE CRITERIA

Case Number : 31180
Site Name: Dixon Municipal LF

SDG Number: ME01H0
Laboratory: Chemtech

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.

Lead
ME01H0, ME01H1, ME01H2, ME01H3, ME01H3A, ME01H3D
ME01H4, ME01H5, ME01H6, ME01H7, ME01H8, ME01H9
ME01J0, ME01J1, ME01J3, ME01J8, ME01L3

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
ME01H0, ME01H1, ME01H2, ME01H3, ME01H3A, ME01H3D
ME01H4, ME01H5, ME01H6, ME01H7, ME01H8, ME01H9
ME01J0, ME01J1, ME01J3, ME01J8, ME01L3

Silver
ME01H0, ME01H1, ME01H2, ME01H3, ME01H3D, ME01H4
ME01H5, ME01H6, ME01H7, ME01H8, ME01H9, ME01J0
ME01J1, ME01J3, ME01J8, ME01L3

LCS Report

SDG NO: ME01H0

No problems found for this qualification.

5. LABORATORY AND FIELD DUPLICATE

Duplicates Report

SDG NO: ME01H0

No problems found for this qualification.

6. ICP ANALYSIS

ICS Report

Assembled By: ESAT
Date: December 10, 2002

Case Number : 31180
Site Name: Dixon Municipal LF

SDG Number: ME01H0
Laboratory: Chemtech

SDG NO: ME01H0

No problems found for this qualification.

Serial Dilution Report

SDG NO: ME01H0

DC-294: The analyte concentration is high (>50 X the IDL) and serial dilution percent difference is not in criteria (>10%). Hits are qualified "J" and non-detects are qualified "UJ".

Potassium
ME01H0, ME01H1, ME01H2, ME01H3, ME01H3D, ME01H4
ME01H5, ME01H6, ME01H7, ME01H8, ME01H9, ME01J0
ME01J1, ME01J3, ME01J8, ME01L3

7. GFAA ANALYSIS

Furnace AA QC Report

SDG NO: ME01H0

No problems found for this qualification.

8. SAMPLE RESULTS

All data, except those qualified above, are acceptable.

Sample Result Verification Report

SDG NO: ME01H0

No problems found for this qualification.

Assembled By: ESAT
Date: December 10, 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 #: 31180 SDG : ME01H0

Site : DIXON MUNICIPAL LANDFILL

Lab. : CHEMED

Reviewer :

Number of Soil Samples : 15

Number of Water Samples : 0

Sample Number :	ME01H0		ME01H1		ME01H2		ME01H3		ME01H4	
Sampling Location :	X201		X201D		X202		X203		X204	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Date Sampled :	11/12/2002		11/12/2002		11/12/2002		11/12/2002		11/12/2002	
Time Sampled :	11:10		11:10		12:10		12:45		13:35	
%Solids :	74.5		72.7		67.1		59.1		82.5	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	4020		3770		4480		4530		3720	
ANTIMONY	0.94	UJ	0.94	UJ	1.0	UJ	1.2	UJ	0.83	UJ
ARSENIC	3.3		2.3		3.7		1.8		2.0	
BARIUM	71.4		69.7		90.3		63.4		52.2	
BERYLLIUM	0.33		0.31		0.36		0.37		0.25	
CADMIUM	0.11	U	0.11	U	0.12	U	0.14	U	0.10	U
CALCIUM	25900		24600		19600		26600		44100	
CHROMIUM	7.8		7.4		8.7		9.4		10.5	
COBALT	6.8		6.4		6.0		4.9		3.5	
COPPER	10.5		9.7		11.3		13.4		13.5	
IRON	8880		8130		8630		8910		9470	
LEAD	11.4	J	11.4	J	21.7	J	20.5	J	8.4	J
MAGNESIUM	13700		13100		10900		11800		27900	
MANGANESE	450		430		303		248		189	
MERCURY	0.13	U	0.13	U	0.14	U	0.17	U	0.12	U
NICKEL	9.1		8.2		8.3		8.5		8.6	
POTASSIUM	466	J	408	J	526	J	568	J	699	J
SELENIUM	0.81	U	0.81	U	0.87	U	1.0	U	0.71	U
SILVER	0.30	UJ	0.30	UJ	0.32	UJ	0.37	UJ	0.26	UJ
SODIUM	197		208		184		276		259	
THALLIUM	0.83	U	0.84	U	0.90	U	1.0	U	0.74	U
VANADIUM	15.5		14.3		15.8		15.1		13.4	
ZINC	40.3		35.3		52.5		61.2		31.9	
CYANIDE	0.070	R	0.080	R	0.080	R	0.090	R	0.070	R

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 #: 31180 SDG : ME01H0
Site : DIXON MUNICIPAL LANDFILL
Lab. : CHEMED
Reviewer :
Date :

Sample Number :	ME01H5		ME01H6		ME01H7		ME01H8		ME01H9	
Sampling Location :	X205		X206		X207		X208		X101	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Date Sampled :	11/12/2002		11/12/2002		11/12/2002		11/12/2002		11/13/2002	
Time Sampled :	15:35		14:20		15:10		16:30		13:10	
%Solids :	75.3		88.8		89.4		55.5		74.4	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	1420		9050		5920		9480		11500	
ANTIMONY	0.92	UJ	0.78	UJ	0.76	UJ	1.2	UJ	0.92	UJ
ARSENIC	0.76	U	8.4		4.8		4.0		9.2	
BARIUM	17.6		69.4		69.1		130		175	
BERYLLIUM	0.13		0.59		0.41		0.67		1.1	
CADMIUM	0.11	U	0.090	U	0.090	U	0.14	U	0.11	U
CALCIUM	119000		2190		33900		17700		67200	
CHROMIUM	2.9		16.1		10.3		15.2		33.4	
COBALT	2.4		7.7		7.1		7.8		7.3	
COPPER	4.2		22.1		16.7		23.6		19.9	
IRON	3950		20700		13400		15900		22100	
LEAD	4.2	J	13.3	J	52.4	J	29.3	J	17.6	J
MAGNESIUM	83200		2380		21400		6840		43300	
MANGANESE	274		559		493		346		1270	
MERCURY	0.12	U	0.11	U	0.10	U	0.17	U	0.12	U
NICKEL	4.2		21.0		14.1		15.1		20.2	
POTASSIUM	246	J	814	J	724	J	1020	J	803	J
SELENIUM	0.79	U	0.67	U	0.65	U	1.3		0.79	U
SILVER	0.29	UJ	0.61	J	0.41	J	0.84	J	0.74	J
SODIUM	270		450		128		217		196	
THALLIUM	0.82	U	0.69	U	0.67	U	1.1	U	0.82	U
VANADIUM	4.9		28.0		18.9		25.2		33.4	
ZINC	12.8		46.5		61.4		229		39.4	
CYANIDE	0.070	R	0.060	R	0.060	R	0.10	R	0.070	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 #: 31180 SDG : ME01H0
Site : DIXON MUNICIPAL LANDFILL
Lab. : CHEMED
Reviewer :

Sample Number :	ME01J0		ME01J1		ME01J3		ME01J8		ME01L3	
Sampling Location :	X104		X104 D		X103		X102		X105	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Date Sampled :	11/13/2002		11/13/2002		11/13/2002		11/14/2002		11/14/2002	
Time Sampled :	14:40		14:40		16:40		10:55			
%Solids :	81.8		78.4		85.3		79.1		86.2	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	3330		3510		5930		5150		3410	
ANTIMONY	0.86	UJ	0.89	UJ	0.81	UJ	0.88	UJ	0.79	UJ
ARSENIC	5.5		4.0		0.67	U	5.3		1.7	
BARIUM	21.4		21.3		33.4		53.3		31.0	
BERYLLIUM	0.26		0.26		0.55		0.45		0.26	
CADMIUM	0.10	U	0.10	U	0.090	U	0.10	U	0.090	U
CALCIUM	62700		69500		1670		1860		40100	
CHROMIUM	7.9		8.4		13.6		9.2		8.1	
COBALT	4.9		4.3		4.3		6.8		4.5	
COPPER	10.7		11.2		12.2		13.7		9.2	
IRON	8080		7850		5580		17200		8460	
LEAD	8.0	J	8.1	J	15.1	J	14.6	J	7.9	J
MAGNESIUM	37000		40900		1380		2350		25200	
MANGANESE	274		305		36.9		1190		201	
MERCURY	0.12	U	0.12	U	0.11	U	0.11	U	0.11	U
NICKEL	9.5		8.8		7.2		24.0		8.6	
POTASSIUM	634	J	669	J	356	J	658	J	493	J
SELENIUM	0.73	U	0.77	U	0.70	U	0.75	U	0.68	U
SILVER	0.30	J	0.28	UJ	0.26	UJ	0.47	J	0.25	UJ
SODIUM	192		189		158		155		262	
THALLIUM	0.76	U	0.79	U	0.72	U	0.78	U	0.70	U
VANADIUM	16.1		13.9		14.9		14.1		11.7	
ZINC	36.4		38.4		27.0		82.2		27.4	
CYANIDE	0.070	U	0.070	U	0.060	U	0.070	U	0.060	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)

se #: 31180
e :
b. :
eviewer :
ate :

SDG : ME01H0
DIXON MUNICIPAL LANDFILL
CHEMED

Sample Number :	ME01H3D		ME01H3S							
Sampling Location :	X203		X203							
Matrix :	Soil		Soil							
Units :	mg/Kg		mg/Kg							
Date Sampled :	11/12/2002		11/12/2002							
Time Sampled :	12:45		12:45							
%Solids :	56.2		59.1							
Dilution Factor :	1.0		1.0							
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	3750		117							
ANTIMONY	1.2	UJ	14.8							
ARSENIC	2.2		706							
BARIUM	58.6		15.2							
BERYLLIUM	0.32		15.7							
CADMIUM	0.14	U								
CALCIUM	28200		72.0							
CHROMIUM	7.8		161							
COBALT	4.8		87.9							
COPPER	11.9									
IRON	7670		29.7							
LEAD	18.0	J								
MAGNESIUM	12500		403							
MANGANESE	246		0.95							
MERCURY	0.17	U	167							
NICKEL	7.7									
POTASSIUM	496	J	3.0							
SELENIUM	1.0	U	9.8							
SILVER	0.37	UJ								
SODIUM	211		14.8							
THALLIUM	1.0	U	174							
VANADIUM	13.4		213							
ZINC	58.0		8.4	J						
CYANIDE	0.090	R								

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: 31180
DAS No:
SDG No: ME01H0

L

Date Shipped: 11/14/02 Carrier Name: UPS Airbill: 1z6215892210021869 Shipped to: Chemtech Consulting Group (CHEMED) Raritan Center 205 Campus Plaza 1 Edison NJ 08837 (732) 225-4111	Date Received/Received by: 11/15/02 Sunny Patel Lab Contract No: 68W00088 Unit Price: $69.00 Transfer To: Date Received/Received By: Lab Contract No: Price:	Sampler (Signature): Jerry Willman Relinquished By: Jerry Willman Relinquished By: Relinquished By: UPS	Date / Time: 11/14/02 1720 Date / Time: Date / Time: 11/15/02 10:00
			Received By: Received By: Received By: Sunny Patel

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
ME01H0	Soil/Sediment/ Jerry Willman	L/G	TM/CN (21)	5-066501 (Ice Only) (1)	X201	11/12/02 11:10	E01H0	
ME01H1	Soil/Sediment/ Jerry Willman	L/G	TM/CN (21)	5-66504 (Ice Only) (1)	X201D	11/12/02 11:10	E01H1	
ME01H2	Soil/Sediment/ Jerry Willman	L/G	TM/CN (21)	5-66507 (Ice Only) (1)	X202	11/12/02 12:10	E01H2	
ME01H3	Soil/Sediment/ Jerry Willman	L/G	TM/CN (21)	5-66510 (Ice Only) (1)	X203	11/12/02 12:45	E01H3	
ME01H4	Soil/Sediment/ Jerry Willman	L/G	TM/CN (21)	5-66513 (Ice Only) (1)	X204	11/12/02 13:35	E01H4	
ME01H5	Soil/Sediment/ Jerry Willman	L/G	TM/CN (21)	5-66516 (Ice Only) (1)	X205	11/12/02 15:35	E01H5	
ME01H6	Soil/Sediment/ Jerry Willman	L/G	TM/CN (21)	5-66519 (Ice Only) (1)	X206	11/12/02 14:20	E01H6	
ME01H7	Soil/Sediment/ Jerry Willman	L/G	TM/CN (21)	5-66522 (Ice Only) (1)	X207	11/12/02 15:10	E01H7	
ME01H8	Soil/Sediment/ Jerry Willman	L/G	TM/CN (21)	5-66525 (Ice Only) (1)	X208	11/12/02 16:30	E01H8	
ME01K3	Ground Water/ Jerry Willman	L/G	CN (21), TM (21)	5-66745 (HNO3), 5-66746 (HNO3), 5-66747 (HNO3), 5-66748 (NaOH), 5-66749 (NaOH), 5-66750 (NaOH) (6)	G101	11/13/02 1300	E01K3	

00001
00
00
00

* Sample ME01K3 is in SDG# ME0159.

Shipment for Case Complete? Y	Sample(s) to be used for laboratory QC: ME01H3, ME01K3	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 5.0C	Chain of Custody Seal Number: 22623, 22624
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? Yes / Shipment Iced? Yes
CN = Cyanide, TM = CLP TAL Total Metals, TM/CN = CLP TAL Total Metals and Cyanide				

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: 5-324306854-111502-0001

USEPA Contract Laboratory Program
Inorganic Traffic Report

Case No: 31180
DAS No:
SDG No: ME01H0 ~~ME01H0~~ **L**

Date Shipped: 11/14/02 Carrier Name: UPS Airbill: 1z6215892210021869 Shipped to: Chemtech Consulting Group (CHEMED) Raritan Center 205 Campus Plaza 1 Edison NJ 08837 (732) 225-4111	Date Received/Received by: 11/15/02 Sunny Patel Lab Contract No: C8W000088 Unit Price: $69.00 Transfer To: Date Received/Received By: Lab Contract No: Price:	Sampler (Signature): [signature] SP 11/15/02 Relinquished By: [signature] Relinquished By: Relinquished By: UPS	Date / Time: 11/14/02 1720 Date / Time: Date / Time: 11/15/02 10:00	Received By: Received By: Received By: Sunny Patel

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
ME01H0	Soil/Sediment/ Jerry Willman	L/G	TM/CN (21)	5-086501 (Ice Only) (1)	X201	11/12/02 11:10	E01H0	
ME01H1	Soil/Sediment/ Jerry Willman	L/G	TM/CN (21)	5-86504 (Ice Only) (1)	X201D	11/12/02 11:10	E01H1	
ME01H2	Soil/Sediment/ Jerry Willman	L/G	TM/CN (21)	5-66507 (Ice Only) (1)	X202	11/12/02 12:10	E01H2	
ME01H3	Soil/Sediment/ Jerry Willman	L/G	TM/CN (21)	5-66510 (Ice Only) (1)	X203	11/12/02 12:45	E01H3	
ME01H4	Soil/Sediment/ Jerry Willman	L/G	TM/CN (21)	5-66513 (Ice Only) (1)	X204	11/12/02 13:35	E01H4	
ME01H5	Soil/Sediment/ Jerry Willman	L/G	TM/CN (21)	5-66516 (Ice Only) (1)	X205	11/12/02 15:35	E01H5	
ME01H6	Soil/Sediment/ Jerry Willman	L/G	TM/CN (21)	5-66519 (Ice Only) (1)	X206	11/12/02 14:20	E01H6	
ME01H7	Soil/Sediment/ Jerry Willman	L/G	TM/CN (21)	5-66522 (Ice Only) (1)	X207	11/12/02 15:10	E01H7	
ME01H8	Soil/Sediment/ Jerry Willman	L/G	TM/CN (21)	5-66525 (Ice Only) (1)	X208	11/12/02 16:30	E01H8	
ME01K3	Ground Water/ Jerry Willman	L/G	CN (21), TM (21)	5-66745 (HNO3), 5-66746 (HNO3), 5-66747 (HNO3), 5-66748 (NaOH), 5-66749 (NaOH), 5-66750 (NaOH) (5)	G101	11/13/02	E01K3	

☆ Sample ME01K3 is in SDG# ME01J9 ~~ME01H3~~ SP 11/15/02

Shipment for Case Complete?	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt:	Chain of Custody Seal Number:
Y	ME01H3, ME01K3		5.0	22603, 22624
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? Y/N Shipment Iced? Y/N

CN = Cyanide, TM = CLP TAL Total Metals, TM/CN = CLP TAL Total Metals and Cyanide

*IR provides preliminary results. Requests for preliminary results will increase analytical costs.

Send Copy to: Contract Laboratory Analytical Services Support, 2890 Edmund Halley Dr., Reston, VA. 20191-5438 Phone 703/264-9348 Fax 703/264-9222

ID Number: E 224205854 111502.0001

52/A 0 Page 1 of 1

Fax Transmittal Memo 7672

To: SUNNY PATEL
Company: CHEMTECH
Location:
Fax #:
Telephone #:
Comments: MISSING TRIGOBS FOR CASE 31180 HARD COPIES TO FOLLOW. HAVE A GREAT WEEKEND!

No. of Pages: 1
Today's Date: 11/15
Time:
From: JESSICA BROWN
Company: DYNCORP
Location:
Fax #:
Dept. Charge:
Telephone #:
Original Disposition: ☐ Destroy ☐ Return ☐ Call for pickup

1

00299

USEPA Contract Laboratory Program
Organic Traffic Report

Case No: 31180
DAS No:
SDG No: ME01H0

L

Date Shipped: 11/14/02 Carrier Name: UPS Airbill: 1z6215892210021869 Shipped to: Chemtech Consulting Group (CHEMED) Raritan Center 205 Campus Plaza 1 Edison NJ 08837 (732) 225-4111	Date Received/Received by: 11/15/02 Sunny Patel Lab Contract No: 68 W00088 Unit Price: $69.00 Transfer To: Date Received/Received By: Lab Contract No: Price:	Sampler (Signature): Jerry Willman Relinquished By: Jerry Willman	Date / Time: 11-14-02/1720	Received By:
		Relinquished By:	Date / Time:	Received By:
		Relinquished By: 88 11/15/02 ~~UPS~~ VPS	Date / Time: 11/15/02 10:00	Received By: Sunny Patel

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
ME01H9	Soil/Sediment/ Jerry Willman	L/G	TM/CN (21)	5-66528 (Ice Only) (1)	X101	11/13/02 13:10	E01H9	
ME01J0	Soil/Sediment/ Jerry Willman	L/G	TM/CN (21)	5-66531 (Ice Only) (1)	X104	11/13/02 14:40	E01J0	
ME01J1	Soil/Sediment/ Jerry Willman	L/G	TM/CN (21)	5-66534 (Ice Only) (1)	X104 D	11/13/02 14:40	E01J1	
ME01J3	Soil/Sediment/ Jerry Willman	L/G	TM/CN (21)	5-66701 (Ice Only) (1)	X103	11/13/02 16:40	E01J3	
ME01J8	Soil/Sediment/ Jerry Willman	L/G	TM/CN (21)	5-66725 (Ice Only) (1)	X102	11/14/02 10:55	E01J8	
ME01J9	Ground Water/ Jerry Willman	L/G	CN (21), TM (21)	5-66729 (HNO3), 5-66730 (NaOH) (2)	G106 Field Blank	11/14/02 11:30	E01J9	
ME01K4	Ground Water/ Jerry Willman	L/G	DM (21)	5-66751 (HNO3), 5-66752 (HNO3), 5-66753 (HNO3) (3)	G101 F	11/13/02 13:00		
ME01K5	Ground Water/ Jerry Willman	L/G	CN (21)	5-66766 (NaOH) (1)	G103	11/14/02 9:32	E01K5	
ME01K6	Ground Water/ Jerry Willman	L/G	CN (21)	5-66769 (NaOH) (1)	G103 D	11/14/02 9:32	E01K6	
ME01K8	Ground Water/ Jerry Willman	L/G	CN (21)	5-66763 (NaOH) (1)	G102	11/14/02 11:50	E01K8	
ME01L3	Soil/Sediment/ Jerry Willman	L/G	TM/CN (21)	5-66222 (Ice Only) (1)	X105	11/14/02	E01L3	

000300

* Samples ME01J9 TO ME01K8 is in SDG# ME01J9.

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC: ME01K4	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 5.0	Chain of Custody Seal Number: 22623, 22624
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? Yes / Shipment Iced? Yes
CN = Cyanide, DM = CLP TAL Dissolved Metals, TM = CLP TAL Total Metals, TM/CN = CLP TAL Total Metals and Cyanide				

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: 5-324306854-111402-0001

DEC 06 2002

CHEMTECH

SDG NARRATIVE

USEPA
SDG # ME01H0
CASE # 31180
CONTRACT # 68-W0-0088
LAB CODE: CHEMED
CHEMTECH PROJECT #P5167

A. Number of Samples and Date of Receipt

15 Soil samples were delivered to the laboratory intact on 11/15/02.

B. Parameters
Test requested for Total Metals and Cyanide.

C. Cooler Temp
Indicator Bottle: **Presence**/Absence
Cooler Temp: 5°C

D. Detail Documentation (related to Sample Handling Shipping, Analytical Problem, Temp of Cooler etc):

Lab received one extra Airbill (# 1Z6215892210021878), which was nor listed in the TR.

For details, please check the attached E-mail Communication page at the end of the Data Package.

E. Corrective Action taken for above:

Per Region 5, Please note the TR/COC discrepancy in the SDG narrative and proceed.

For details Regional Resolutions, please check the attached E-mail Communication page at the end of the Data Package.

F. Analytical Techniques:

All analyses were based on CLP Methodology by method ILM04.1.

G. QA/ QC

Calibrations met requirements. Interference check met requirements. Blank analyses did not indicate the presence of contamination. Laboratory Control sample was within control limits. Spike sample met requirements except for Silver, antimony and Lead. Duplicate sample did met requirements. Serial Dilution did met requirements except for the Potassium.

I certify that the 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

CHEMTECH

contained in this hard copy data package has been authorized by the Laboratory Director or his designee, as verified by the following signature.

Signature _____ Name: Parveen Hasan

Date 12/05/02 Title: QA/QC

U.S. EPA - CLP

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-W0-0088

Lab Code: CHEMED Case No.: 31180 SAS No.: SDG No.: ME01H0

SOW No.: ILM04.1

EPA SAMPLE NO.	Lab Sample ID.
ME01H0	P5167-01S
ME01H1	P5167-02S
ME01H2	P5167-03S
ME01H3	P5167-04S
ME01H3D	P5167-05S
ME01H3S	P5167-06S
ME01H4	P5167-07S
ME01H5	P5167-08S
ME01H6	P5167-09S
ME01H7	P5167-10S
ME01H8	P5167-11S
ME01H9	P5167-12S
ME01J0	P5167-13S
ME01J1	P5167-14S
ME01J3	P5167-15S
ME01J8	P5167-16S
ME01L3	P5167-17S

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:
The "E" qualifiers on Form I and IX for Potassium indicate chemical or physical interference effects, which were suspected during that element's analyses only.

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: Mildred V. Reyes Name: MILDRED V. REYES

Date: 12/5/02 Title: QA/QC DIRECTOR

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

ME01H0

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-W0-0088

Lab Code: CHEMED Case No.: 31180 SAS No.: SDG No.: ME01H0

Matrix (soil/water): SOIL Lab Sample ID: P5167-01S

Level (low/med): LOW Date Received: 11/15/02

% Solids: 74.5

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4020			P
7440-36-0	Antimony	0.94	U	N	P
7440-38-2	Arsenic	3.3			P
7440-39-3	Barium	71.4			P
7440-41-7	Beryllium	0.33	B		P
7440-43-9	Cadmium	0.11	U		P
7440-70-2	Calcium	25900			P
7440-47-3	Chromium	7.8			P
7440-48-4	Cobalt	6.8	B		P
7440-50-8	Copper	10.5			P
7439-89-6	Iron	8880			P
7439-92-1	Lead	11.4		N	P
7439-95-4	Magnesium	13700			P
7439-96-5	Manganese	450			P
7439-97-6	Mercury	0.13	U		CV
7440-02-0	Nickel	9.1	B		P
7440-09-7	Potassium	466	B	E	P
7782-49-2	Selenium	0.81	U		P
7440-22-4	Silver	0.30	U	N	P
7440-23-5	Sodium	197	B		P
7440-28-0	Thallium	0.83	U		P
7440-62-2	Vanadium	15.5			P
7440-66-6	Zinc	40.3			P
	Cyanide	0.07	U		CA

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

ME01H1

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-W0-0088

Lab Code: CHEMED Case No.: 31180 SAS No.: SDG No.: ME01H0

Matrix (soil/water): SOIL Lab Sample ID: P5167-02S

Level (low/med): LOW Date Received: 11/15/02

% Solids: 72.7

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3770			P
7440-36-0	Antimony	0.94	U	N	P
7440-38-2	Arsenic	2.3	B		P
7440-39-3	Barium	69.7			P
7440-41-7	Beryllium	0.31	B		P
7440-43-9	Cadmium	0.11	U		P
7440-70-2	Calcium	24600			P
7440-47-3	Chromium	7.4			P
7440-48-4	Cobalt	6.4	B		P
7440-50-8	Copper	9.7			P
7439-89-6	Iron	8130			P
7439-92-1	Lead	11.4		N	P
7439-95-4	Magnesium	13100			P
7439-96-5	Manganese	430			P
7439-97-6	Mercury	0.13	U		CV
7440-02-0	Nickel	8.2	B		P
7440-09-7	Potassium	408	B	E	P
7782-49-2	Selenium	0.81	U		P
7440-22-4	Silver	0.30	U	N	P
7440-23-5	Sodium	208	B		P
7440-28-0	Thallium	0.84	U		P
7440-62-2	Vanadium	14.3			P
7440-66-6	Zinc	35.3			P
	Cyanide	0.08	U		CA

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME01H2

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-W0-0088

Lab Code: CHEMED Case No.: 31180 SAS No.: SDG No.: ME01H0

Matrix (soil/water): SOIL Lab Sample ID: P5167-03S

Level (low/med): LOW Date Received: 11/15/02

% Solids: 67.1

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4480			P
7440-36-0	Antimony	1.0	U	N	P
7440-38-2	Arsenic	3.7			P
7440-39-3	Barium	90.3			P
7440-41-7	Beryllium	0.36	B		P
7440-43-9	Cadmium	0.12	U		P
7440-70-2	Calcium	19600			P
7440-47-3	Chromium	8.7			P
7440-48-4	Cobalt	6.0	B		P
7440-50-8	Copper	11.3			P
7439-89-6	Iron	8630			P
7439-92-1	Lead	21.7		N	P
7439-95-4	Magnesium	10900			P
7439-96-5	Manganese	303			P
7439-97-6	Mercury	0.14	U		CV
7440-02-0	Nickel	8.3	B		P
7440-09-7	Potassium	526	B	E	P
7782-49-2	Selenium	0.87	U		P
7440-22-4	Silver	0.32	U	N	P
7440-23-5	Sodium	184	B		P
7440-28-0	Thallium	0.90	U		P
7440-62-2	Vanadium	15.8			P
7440-66-6	Zinc	52.5			P
	Cyanide	0.08	U		CA

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

ME01H3

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-W0-0088

Lab Code: CHEMED Case No.: 31180 SAS No.: SDG No.: ME01H0

Matrix (soil/water): SOIL Lab Sample ID: P5167-04S

Level (low/med): LOW Date Received: 11/15/02

% Solids: 59.1

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4530			P
7440-36-0	Antimony	1.2	U	N	P
7440-38-2	Arsenic	1.8	B		P
7440-39-3	Barium	63.4	B		P
7440-41-7	Beryllium	0.37	B		P
7440-43-9	Cadmium	0.14	U		P
7440-70-2	Calcium	26600			P
7440-47-3	Chromium	9.4			P
7440-48-4	Cobalt	4.9	B		P
7440-50-8	Copper	13.4			P
7439-89-6	Iron	8910			P
7439-92-1	Lead	20.5		N	P
7439-95-4	Magnesium	11800			P
7439-96-5	Manganese	248			P
7439-97-6	Mercury	0.17	U		CV
7440-02-0	Nickel	8.5	B		P
7440-09-7	Potassium	568	B	E	P
7782-49-2	Selenium	1.0	U		P
7440-22-4	Silver	0.37	U	N	P
7440-23-5	Sodium	276	B		P
7440-28-0	Thallium	1.0	U		P
7440-62-2	Vanadium	15.1	B		P
7440-66-6	Zinc	61.2			P
	Cyanide	0.09	U		CA

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

ME01H4

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-W0-0088

Lab Code: CHEMED Case No.: 31180 SAS No.: SDG No.: ME01H0

Matrix (soil/water): SOIL Lab Sample ID: P5167-07S

Level (low/med): LOW Date Received: 11/15/02

% Solids: 82.5

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3720			P
7440-36-0	Antimony	0.83	U	N	P
7440-38-2	Arsenic	2.0	B		P
7440-39-3	Barium	52.2			P
7440-41-7	Beryllium	0.25	B		P
7440-43-9	Cadmium	0.10	U		P
7440-70-2	Calcium	44100			P
7440-47-3	Chromium	10.5			P
7440-48-4	Cobalt	3.5	B		P
7440-50-8	Copper	13.5			P
7439-89-6	Iron	9470			P
7439-92-1	Lead	8.4		N	P
7439-95-4	Magnesium	27900			P
7439-96-5	Manganese	189			P
7439-97-6	Mercury	0.12	U		CV
7440-02-0	Nickel	8.6	B		P
7440-09-7	Potassium	699	B	E	P
7782-49-2	Selenium	0.71	U		P
7440-22-4	Silver	0.26	U	N	P
7440-23-5	Sodium	259	B		P
7440-28-0	Thallium	0.74	U		P
7440-62-2	Vanadium	13.4			P
7440-66-6	Zinc	31.9			P
	Cyanide	0.07	U		CA

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME01H5

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-W0-0088

Lab Code: CHEMED Case No.: 31180 SAS No.: SDG No.: ME01H0

Matrix (soil/water): SOIL Lab Sample ID: P5167-08S

Level (low/med): LOW Date Received: 11/15/02

% Solids: 75.3

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	1420			P
7440-36-0	Antimony	0.92	U	N	P
7440-38-2	Arsenic	0.76	U		P
7440-39-3	Barium	17.6	B		P
7440-41-7	Beryllium	0.13	B		P
7440-43-9	Cadmium	0.11	U		P
7440-70-2	Calcium	119000			P
7440-47-3	Chromium	2.9			P
7440-48-4	Cobalt	2.4	B		P
7440-50-8	Copper	4.2	B		P
7439-89-6	Iron	3950			P
7439-92-1	Lead	4.2		N	P
7439-95-4	Magnesium	83200			P
7439-96-5	Manganese	274			P
7439-97-6	Mercury	0.12	U		CV
7440-02-0	Nickel	4.2	B		P
7440-09-7	Potassium	246	B	E	P
7782-49-2	Selenium	0.79	U		P
7440-22-4	Silver	0.29	U	N	P
7440-23-5	Sodium	270	B		P
7440-28-0	Thallium	0.82	U		P
7440-62-2	Vanadium	4.9	B		P
7440-66-6	Zinc	12.8			P
	Cyanide	0.07	U		CA

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

ME01H6

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-W0-0088

Lab Code: CHEMED Case No.: 31180 SAS No.: SDG No.: ME01H0

Matrix (soil/water): SOIL Lab Sample ID: P5167-09S

Level (low/med): LOW Date Received: 11/15/02

% Solids: 88.8

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	9050			P
7440-36-0	Antimony	0.78	U	N	P
7440-38-2	Arsenic	8.4			P
7440-39-3	Barium	69.4			P
7440-41-7	Beryllium	0.59	B		P
7440-43-9	Cadmium	0.09	U		P
7440-70-2	Calcium	2190			P
7440-47-3	Chromium	16.1			P
7440-48-4	Cobalt	7.7	B		P
7440-50-8	Copper	22.1			P
7439-89-6	Iron	20700			P
7439-92-1	Lead	13.3		N	P
7439-95-4	Magnesium	2380			P
7439-96-5	Manganese	559			P
7439-97-6	Mercury	0.11	U		CV
7440-02-0	Nickel	21.0			P
7440-09-7	Potassium	814	B	E	P
7782-49-2	Selenium	0.67	U		P
7440-22-4	Silver	0.61	B	N	P
7440-23-5	Sodium	450	B		P
7440-28-0	Thallium	0.69	U		P
7440-62-2	Vanadium	28.0			P
7440-66-6	Zinc	46.5			P
	Cyanide	0.06	U		CA

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

ME01H7

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-W0-0088

Lab Code: CHEMED Case No.: 31180 SAS No.: SDG No.: ME01H0

Matrix (soil/water): SOIL Lab Sample ID: P5167-10S

Level (low/med): LOW Date Received: 11/15/02

% Solids: 89.4

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	5920			P
7440-36-0	Antimony	0.76	U	N	P
7440-38-2	Arsenic	4.8			P
7440-39-3	Barium	69.1			P
7440-41-7	Beryllium	0.41	B		P
7440-43-9	Cadmium	0.09	U		P
7440-70-2	Calcium	33900			P
7440-47-3	Chromium	10.3			P
7440-48-4	Cobalt	7.1	B		P
7440-50-8	Copper	16.7			P
7439-89-6	Iron	13400			P
7439-92-1	Lead	52.4		N	P
7439-95-4	Magnesium	21400			P
7439-96-5	Manganese	493			P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	14.1			P
7440-09-7	Potassium	724	B	E	P
7782-49-2	Selenium	0.65	U		P
7440-22-4	Silver	0.41	B	N	P
7440-23-5	Sodium	128	B		P
7440-28-0	Thallium	0.67	U		P
7440-62-2	Vanadium	18.9			P
7440-66-6	Zinc	61.4			P
	Cyanide	0.06	U		CA

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

ME01H8

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-W0-0088

Lab Code: CHEMED Case No.: 31180 SAS No.: SDG No.: ME01H0

Matrix (soil/water): SOIL Lab Sample ID: P5167-11S

Level (low/med): LOW Date Received: 11/15/02

% Solids: 55.5

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	9480			P
7440-36-0	Antimony	1.2	U	N	P
7440-38-2	Arsenic	4.0			P
7440-39-3	Barium	130			P
7440-41-7	Beryllium	0.67	B		P
7440-43-9	Cadmium	0.14	U		P
7440-70-2	Calcium	17700			P
7440-47-3	Chromium	15.2			P
7440-48-4	Cobalt	7.8	B		P
7440-50-8	Copper	23.6			P
7439-89-6	Iron	15900			P
7439-92-1	Lead	29.3		N	P
7439-95-4	Magnesium	6840			P
7439-96-5	Manganese	346			P
7439-97-6	Mercury	0.17	U		CV
7440-02-0	Nickel	15.1			P
7440-09-7	Potassium	1020	B	E	P
7782-49-2	Selenium	1.3	B		P
7440-22-4	Silver	0.84	B	N	P
7440-23-5	Sodium	217	B		P
7440-28-0	Thallium	1.1	U		P
7440-62-2	Vanadium	25.2			P
7440-66-6	Zinc	229			P
	Cyanide	0.10	U		CA

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME01H9

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-W0-0088

Lab Code: CHEMED Case No.: 31180 SAS No.: SDG No.: ME01H0

Matrix (soil/water): SOIL Lab Sample ID: P5167-12S

Level (low/med): LOW Date Received: 11/15/02

% Solids: 74.4

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	0.92	U	N	P
7440-38-2	Arsenic	9.2			P
7440-39-3	Barium	175			P
7440-41-7	Beryllium	1.1	B		P
7440-43-9	Cadmium	0.11	U		P
7440-70-2	Calcium	67200			P
7440-47-3	Chromium	33.4			P
7440-48-4	Cobalt	7.3	B		P
7440-50-8	Copper	19.9			P
7439-89-6	Iron	22100			P
7439-92-1	Lead	17.6		N	P
7439-95-4	Magnesium	43300			P
7439-96-5	Manganese	1270			P
7439-97-6	Mercury	0.12	U		CV
7440-02-0	Nickel	20.2			P
7440-09-7	Potassium	803	B	E	P
7782-49-2	Selenium	0.79	U		P
7440-22-4	Silver	0.74	B	N	P
7440-23-5	Sodium	196	B		P
7440-28-0	Thallium	0.82	U		P
7440-62-2	Vanadium	33.4			P
7440-66-6	Zinc	39.4			P
	Cyanide	0.07	U		CA

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

ME01J0

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-W0-0088

Lab Code: CHEMED Case No.: 31180 SAS No.: SDG No.: ME01H0

Matrix (soil/water): SOIL Lab Sample ID: P5167-13S

Level (low/med): LOW Date Received: 11/15/02

% Solids: 81.8

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3330			P
7440-36-0	Antimony	0.86	U	N	P
7440-38-2	Arsenic	5.5			P
7440-39-3	Barium	21.4	B		P
7440-41-7	Beryllium	0.26	B		P
7440-43-9	Cadmium	0.10	U		P
7440-70-2	Calcium	62700			P
7440-47-3	Chromium	7.9			P
7440-48-4	Cobalt	4.9	B		P
7440-50-8	Copper	10.7			P
7439-89-6	Iron	8080			P
7439-92-1	Lead	8.0		N	P
7439-95-4	Magnesium	37000			P
7439-96-5	Manganese	274			P
7439-97-6	Mercury	0.12	U		CV
7440-02-0	Nickel	9.5	B		P
7440-09-7	Potassium	634	B	E	P
7782-49-2	Selenium	0.73	U		P
7440-22-4	Silver	0.30	B	N	P
7440-23-5	Sodium	192	B		P
7440-28-0	Thallium	0.76	U		P
7440-62-2	Vanadium	16.1			P
7440-66-6	Zinc	36.4			P
	Cyanide	0.07	U		CA

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

ME01J1

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-W0-0088

Lab Code: CHEMED Case No.: 31180 SAS No.: SDG No.: ME01H0

Matrix (soil/water): SOIL Lab Sample ID: P5167-14S

Level (low/med): LOW Date Received: 11/15/02

% Solids: 78.4

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3510			P
7440-36-0	Antimony	0.89	U	N	P
7440-38-2	Arsenic	4.0			P
7440-39-3	Barium	21.3	B		P
7440-41-7	Beryllium	0.26	B		P
7440-43-9	Cadmium	0.10	U		P
7440-70-2	Calcium	69500			P
7440-47-3	Chromium	8.4			P
7440-48-4	Cobalt	4.3	B		P
7440-50-8	Copper	11.2			P
7439-89-6	Iron	7850			P
7439-92-1	Lead	8.1		N	P
7439-95-4	Magnesium	40900			P
7439-96-5	Manganese	305			P
7439-97-6	Mercury	0.12	U		CV
7440-02-0	Nickel	8.8	B		P
7440-09-7	Potassium	669	B	E	P
7782-49-2	Selenium	0.77	U		P
7440-22-4	Silver	0.28	U	N	P
7440-23-5	Sodium	189	B		P
7440-28-0	Thallium	0.79	U		P
7440-62-2	Vanadium	13.9			P
7440-66-6	Zinc	38.4			P
	Cyanide	0.07	U		CA

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

ME01J3

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-W0-0088

Lab Code: CHEMED Case No.: 31180 SAS No.: SDG No.: ME01H0

Matrix (soil/water): SOIL Lab Sample ID: P5167-15S

Level (low/med): LOW Date Received: 11/15/02

% Solids: 85.3

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	5930			P
7440-36-0	Antimony	0.81	U	N	P
7440-38-2	Arsenic	0.67	U		P
7440-39-3	Barium	33.4	B		P
7440-41-7	Beryllium	0.55	B		P
7440-43-9	Cadmium	0.09	U		P
7440-70-2	Calcium	1670			P
7440-47-3	Chromium	13.6			P
7440-48-4	Cobalt	4.3	B		P
7440-50-8	Copper	12.2			P
7439-89-6	Iron	5580			P
7439-92-1	Lead	15.1		N	P
7439-95-4	Magnesium	1380			P
7439-96-5	Manganese	36.9			P
7439-97-6	Mercury	0.11	U		CV
7440-02-0	Nickel	7.2	B		P
7440-09-7	Potassium	356	B	E	P
7782-49-2	Selenium	0.70	U		P
7440-22-4	Silver	0.26	U	N	P
7440-23-5	Sodium	158	B		P
7440-28-0	Thallium	0.72	U		P
7440-62-2	Vanadium	14.9			P
7440-66-6	Zinc	27.0			P
	Cyanide	0.06	U		CA

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

ME01J8

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-W0-0088

Lab Code: CHEMED Case No.: 31180 SAS No.: SDG No.: ME01H0

Matrix (soil/water): SOIL Lab Sample ID: P5167-16S

Level (low/med): LOW Date Received: 11/15/02

% Solids: 79.1

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	5150			P
7440-36-0	Antimony	0.88	U	N	P
7440-38-2	Arsenic	5.3			P
7440-39-3	Barium	53.3			P
7440-41-7	Beryllium	0.45	B		P
7440-43-9	Cadmium	0.10	U		P
7440-70-2	Calcium	1860			P
7440-47-3	Chromium	9.2			P
7440-48-4	Cobalt	6.8	B		P
7440-50-8	Copper	13.7			P
7439-89-6	Iron	17200			P
7439-92-1	Lead	14.6		N	P
7439-95-4	Magnesium	2350			P
7439-96-5	Manganese	1190			P
7439-97-6	Mercury	0.11	U		CV
7440-02-0	Nickel	24.0			P
7440-09-7	Potassium	658	B	E	P
7782-49-2	Selenium	0.75	U		P
7440-22-4	Silver	0.47	B	N	P
7440-23-5	Sodium	155	B		P
7440-28-0	Thallium	0.78	U		P
7440-62-2	Vanadium	14.1			P
7440-66-6	Zinc	82.2			P
	Cyanide	0.07	U		CA

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

ME01L3

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-W0-0088

Lab Code: CHEMED Case No.: 31180 SAS No.: SDG No.: ME01H0

Matrix (soil/water): SOIL Lab Sample ID: P5167-17S

Level (low/med): LOW Date Received: 11/15/02

% Solids: 86.2

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3410			P
7440-36-0	Antimony	0.79	U	N	P
7440-38-2	Arsenic	1.7	B		P
7440-39-3	Barium	31.0	B		P
7440-41-7	Beryllium	0.26	B		P
7440-43-9	Cadmium	0.09	U		P
7440-70-2	Calcium	40100			P
7440-47-3	Chromium	8.1			P
7440-48-4	Cobalt	4.5	B		P
7440-50-8	Copper	9.2			P
7439-89-6	Iron	8460			P
7439-92-1	Lead	7.9		N	P
7439-95-4	Magnesium	25200			P
7439-96-5	Manganese	201			P
7439-97-6	Mercury	0.11	U		CV
7440-02-0	Nickel	8.6	B		P
7440-09-7	Potassium	493	B	E	P
7782-49-2	Selenium	0.68	U		P
7440-22-4	Silver	0.25	U	N	P
7440-23-5	Sodium	262	B		P
7440-28-0	Thallium	0.70	U		P
7440-62-2	Vanadium	11.7			P
7440-66-6	Zinc	27.4			P
	Cyanide	0.06	U		CA

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

3
BLANKS

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-W0-0088

Lab Code: CHEMED Case No.: 31180 SAS No.: SDG No.: ME01H0

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	-109.0	B	-105.1	B	-109.0	B	-100.4	B	-19.232	B	P
Antimony	3.5	U	3.5	U	3.5	U	3.5	U	0.700	U	P
Arsenic	2.9	U	-4.1	B	-4.5	B	2.9	U	-0.794	B	P
Barium	1.3	U	-1.5	B	-1.5	B	-1.3	B	-0.300	B	P
Beryllium	0.1	U	0.1	U	0.1	U	0.1	U	0.020	U	P
Cadmium	-0.5	B	0.4	U	-0.7	B	-0.5	B	0.080	U	P
Calcium	5.6	U	5.6	U	-8.8	B	5.6	U	-1.298	B	P
Chromium	-1.0	B	0.9	U	0.9	U	0.9	U	0.180	U	P
Cobalt	1.0	U	1.0	U	1.0	U	1.0	U	-0.246	B	P
Copper	1.3	U	1.3	U	5.0	B	1.7	B	0.260	U	P
Iron	18.1	U	18.1	U	18.1	U	18.1	U	3.620	U	P
Lead	2.3	U	2.3	U	2.3	U	2.3	U	0.460	U	P
Magnesium	7.5	U	7.5	U	-8.8	B	7.5	U	-1.999	B	P
Manganese	-0.6	B	-0.6	B	-0.8	B	-0.6	B	-0.144	B	P
Mercury	0.2	U	0.2	U	0.2	U	0.2	U	0.100	U	CV
Nickel	-2.2	B	1.4	U	-3.3	B	-2.8	B	-0.595	B	P
Potassium	16.6	U	16.6	U	16.6	U	16.6	U	3.320	U	P
Selenium	3.0	U	3.0	U	3.0	U	3.0	U	0.600	U	P
Silver	1.1	U	1.1	U	1.1	U	1.1	U	0.220	U	P
Sodium	473.0	U	473.0	U	473.0	U	473.0	U	94.600	U	P
Thallium	3.1	U	3.1	U	3.1	U	-4.2	B	0.620	U	P
Vanadium	1.0	U	1.0	U	1.0	U	1.0	B	0.254	B	P
Zinc	1.6	U	1.6	U	1.6	U	1.6	U	0.320	U	P
Cyanide	1.1	U	1.1	U	1.1	U	1.1	U	0.055	U	CA

3
BLANKS

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-W0-0088

Lab Code: CHEMED Case No.: 31180 SAS No.: SDG No.: ME01H0

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			-94.4	B	-91.9	B	-92.3	B			P
Antimony			3.5	U	3.5	U	3.5	U			P
Arsenic			2.9	U	-3.2	B	-4.6	B			P
Barium			-1.5	B	-1.6	B	-1.6	B			P
Beryllium			0.1	U	0.1	U	0.1	U			P
Cadmium			0.4	U	-0.9	B	-0.5	B			P
Calcium			-9.3	B	5.6	U	5.6	U			P
Chromium			0.9	U	0.9	U	0.9	U			P
Cobalt			1.0	U	1.0	U	1.0	U			P
Copper			1.3	U	3.0	B	1.5	B			P
Iron			18.1	U	18.1	U	18.1	U			P
Lead			2.3	U	2.3	U	2.3	U			P
Magnesium			-9.4	B	7.5	U	7.5	U			P
Manganese			-0.6	B	-0.8	B	-0.7	B			P
Mercury			0.2	U	0.2	U	0.2	U			CV
Nickel			-1.7	B	-2.0	B	-1.4	B			P
Potassium			16.6	U	16.6	U	16.6	U			P
Selenium			3.0	U	3.0	U	3.0	U			P
Silver			1.1	U	1.1	U	1.1	U			P
Sodium			473.0	U	473.0	U	473.0	U			P
Thallium			-4.4	B	3.1	U	3.1	U			P
Vanadium			1.3	B	1.8	B	1.0	B			P
Zinc			1.6	U	1.6	U	1.6	U			P
Cyanide			1.1	U							CA

000035

3
BLANKS

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-W0-0088

Lab Code: CHEMED Case No.: 31180 SAS No.: SDG No.: ME01H0

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			-94.9	B	80.8	B	104.6	B			P
Antimony			3.5	U	3.5	U	3.5	U			P
Arsenic			-5.1	B	-3.5	B	4.6	B			P
Barium			-1.6	B	1.3	U	1.3	U			P
Beryllium			0.1	U	0.1	B	0.1	U			P
Cadmium			-0.9	B	0.4	U	0.4	U			P
Calcium			5.6	U	12.1	B	5.6	U			P
Chromium			0.9	U	0.9	U	0.9	U			P
Cobalt			1.0	U	1.0	U	1.0	U			P
Copper			1.3	U	1.3	U	1.3	U			P
Iron			18.1	U	18.1	U	18.1	U			P
Lead			2.3	U	2.3	U	2.6	B			P
Magnesium			7.5	U	7.5	U	7.5	U			P
Manganese			-0.7	B	0.3	U	0.3	U			P
Mercury			0.2	U	0.2	U	0.2	U			CV
Nickel			-1.9	B	1.4	U	2.2	B			P
Potassium			16.6	U	16.6	U	16.6	U			P
Selenium			3.0	U	3.5	B	4.0	B			P
Silver			1.1	U	1.1	U	1.1	U			P
Sodium			473.0	U	473.0	U	473.0	U			P
Thallium			3.1	U	4.9	B	3.1	U			P
Vanadium			1.3	B	1.0	U	1.0	U			P
Zinc			1.6	U	1.6	U	1.6	U			P
Cyanide											NR

000036

3
BLANKS

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-W0-0088

Lab Code: CHEMED Case No.: 31180 SAS No.: SDG No.: ME01H0

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			48.7	B	58.0	B	111.3	B			P
Antimony			3.5	U	-4.5	B	-9.4	B			P
Arsenic			2.9	U	-3.0	B	2.9	U			P
Barium			1.3	U	1.3	U	1.3	U			P
Beryllium			0.1	U	0.1	U	0.1	U			P
Cadmium			0.4	U	0.4	U	0.4	U			P
Calcium			36.0	B	18.2	B	46.0	B			P
Chromium			0.9	U	0.9	U	0.9	U			P
Cobalt			1.0	U	1.0	U	1.0	U			P
Copper			-1.4	B	-2.2	B	-3.1	B			P
Iron			18.1	U	18.1	U	18.1	U			P
Lead			2.3	U	2.3	U	2.8	B			P
Magnesium			35.3	B	16.8	B	39.9	B			P
Manganese			0.3	U	0.3	U	0.3	U			P
Mercury			0.2	U	0.2	U					CV
Nickel			1.4	U	1.4	U	1.4	U			P
Potassium			16.6	U	16.6	U	16.6	U			P
Selenium			4.9	B	3.7	B	4.4	B			P
Silver			1.1	U	1.1	U	1.1	U			P
Sodium			473.0	U	473.0	U	473.0	U			P
Thallium			4.8	B	3.1	U	3.1	U			P
Vanadium			1.0	U	1.0	U	1.3	B			P
Zinc			1.6	U	1.6	U	1.6	U			P
Cyanide											NR

000037

3
BLANKS

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-W0-0088

Lab Code: CHEMED Case No.: 31180 SAS No.: SDG No.: ME01H0

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			176.7	B	-43.4	B	-19.1	B			P
Antimony			-4.7	B	-6.0	B	-7.2	B			P
Arsenic			2.9	U	2.9	U	2.9	U			P
Barium			1.3	U	1.3	U	1.3	U			P
Beryllium			0.2	B	0.3	B	0.3	B			P
Cadmium			0.4	U	0.4	U	0.4	U			P
Calcium			23.5	B	20.7	B	11.5	B			P
Chromium			0.9	U	0.9	U	0.9	U			P
Cobalt			1.0	U	1.0	U	1.0	U			P
Copper			-5.5	B	1.3	U	1.3	U			P
Iron			18.1	U	18.1	U	18.1	U			P
Lead			2.3	U	2.3	U	2.3	U			P
Magnesium			22.9	B	7.5	U	7.5	U			P
Manganese			0.3	U	0.3	U	0.3	U			P
Mercury											NR
Nickel			1.4	U	1.9	B	2.3	B			P
Potassium			16.6	U	27.9	B	16.6	U			P
Selenium			3.0	U	3.0	U	3.0	U			P
Silver			1.1	U	1.1	U	1.1	U			P
Sodium			473.0	U	-509.2	B	473.0	U			P
Thallium			3.1	U	3.1	U	3.1	U			P
Vanadium			3.3	B	4.5	B	4.3	B			P
Zinc			1.6	U	-5.4	B	-8.8	B			P
Cyanide											NR

000038

U.S. EPA - CLP

5A
SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

ME01H3S

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-W0-0088

Lab Code: CHEMED Case No.: 31180 SAS No.: SDG No.: ME01H0

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

% Solids for Sample: 59.1

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	117.4772		1.1844	U	169.20	69.4	N	P
Arsenic	75-125	14.8460		1.7716	B	13.54	96.6		P
Barium	75-125	706.2420		63.4433	B	676.82	95.0		P
Beryllium	75-125	15.1709		0.3655	B	16.92	87.5		P
Cadmium	75-125	15.6802		0.1354	U	16.92	92.7		P
Calcium									NR
Chromium	75-125	71.9577		9.4264		67.68	92.4		P
Cobalt	75-125	161.4467		4.9255	B	169.20	92.5		P
Copper	75-125	87.9137		13.3739		84.60	88.1		P
Iron									NR
Lead	75-125	29.6701		20.4805		6.77	135.7	N	P
Magnesium									NR
Manganese	75-125	403.3181		248.4602		169.20	91.5		P
Mercury	75-125	0.9475		0.1692	U	0.85	111.5		CV
Nickel	75-125	166.9763		8.4839	B	169.20	93.7		P
Potassium									NR
Selenium	75-125	3.0102		1.0152	U	3.38	89.1		P
Silver	75-125	9.7919		0.3723	U	16.92	57.9	N	P
Sodium									NR
Thallium	75-125	14.8223		1.0491	U	16.92	87.6		P
Vanadium	75-125	173.9002		15.1320	B	169.20	93.8		P
Zinc	75-125	213.1675		61.2183		169.20	89.8		P
Cyanide	75-125	8.4349		0.0931	U	8.46	99.7		CA

Comments:

U.S. EPA - CLP

5B
POST DIGEST SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

ME01H3A

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-W0-0088

Lab Code: CHEMED Case No.: 31180 SAS No.: SDG No.: ME01H0

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	Spike Added (SA)	%R	Q	M
Aluminum									NR
Antimony		106.54		3.50	U	120.0	88.8		P
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead		184.17		60.52		121.0	102.2		P
Magnesium									N
Manganese									Nk
Mercury									NR
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide									NR

Comments:

U.S. EPA - CLP

6
DUPLICATES

EPA SAMPLE NO.

ME01H3D

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-W0-0088

Lab Code: CHEMED Case No.: 31180 SAS No.: SDG No.: ME01H0

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

% Solids for Sample: 59.1 % Solids for Duplicate: 56.2

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

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum		4527.3215		3747.6734		18.8		P
Antimony		1.1844	U	1.1844	U			P
Arsenic		1.7716	B	2.1692	B	20.2		P
Barium		63.4433	B	58.6041	B	7.9		P
Beryllium		0.3655	B	0.3249	B	11.8		P
Cadmium		0.1354	U	0.1354	U			P
Calcium		26632.5415		28192.9882		5.7		P
Chromium	3.4	9.4264		7.8393		18.4		P
Cobalt		4.9255	B	4.7580	B	3.5		P
Copper	8.5	13.3739		11.9492		11.3		P
Iron		8914.5770		7670.2487		15.0		P
Lead		20.4805		17.9949		12.9		P
Magnesium		11780.1895		12504.2166		6.0		P
Manganese		248.4602		245.8173		1.1		P
Mercury		0.1692	U	0.1692	U			CV
Nickel		8.4839	B	7.7411	B	9.2		P
Potassium		568.3046	B	495.5482	B	13.7		P
Selenium		1.0152	U	1.0152	U			P
Silver		0.3723	U	0.3723	U			P
Sodium		275.9272	B	211.2640	B	26.5		P
Thallium		1.0491	U	1.0491	U			P
Vanadium		15.1320	B	13.3672	B	12.4		P
Zinc		61.2183		58.0118		5.4		P
Cyanide		0.0931	U	0.0931	U			CA

U.S. EPA - CLP

9

ICP SERIAL DILUTIONS

EPA SAMPLE NO.

ME01H3L

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-W0-0088

Lab Code: CHEMED Case No.: 31180 SAS No.: SDG No.: ME01H0

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

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Differ-ence	Q	M
Aluminum	13378.24		12331.45		7.8		P
Antimony	3.50	U	17.50	U			P
Arsenic	5.24	B	14.50	U	100.0		P
Barium	187.48	B	173.95	B	7.2		P
Beryllium	1.08	B	1.20	B	11.1		P
Cadmium	0.40	U	2.00	U			P
Calcium	78699.16		77648.68		1.3		P
Chromium	27.86		25.62	B	8.0		P
Cobalt	14.56	B	14.80	B	1.6		P
Copper	39.52		68.20	B	72.6		P
Iron	26342.58		25652.55		2.6		P
Lead	60.52		68.50		13.2		P
Magnesium	34810.46		33034.62		5.1		P
Manganese	734.20		715.92		2.5		P
Mercury							NR
Nickel	25.07	B	22.70	B	9.5		P
Potassium	1679.34	B	1161.92	B	30.8	E	P
Selenium	3.00	U	15.00	U			P
Silver	1.10	U	5.50	U			P
Sodium	815.36	B	2365.00	U	100.0		P
Thallium	3.10	U	15.50	U			P
Vanadium	44.72	B	46.50	B	4.0		P
Zinc	180.90		189.22		4.6		P

000051

U.S. EPA - CLP

10
INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-W0-0088

Lab Code: CHEMED Case No.: 31180 SAS No.: SDG No.: ME01H0

ICP ID Number: P2 Date: 10/13/02

Flame AA ID Number:

Furnace AA ID Number:

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum	308.20		200	10.4	P
Antimony	206.80		60	3.5	P
Arsenic	189.00		10	2.9	P
Barium	493.40		200	1.3	P
Beryllium	313.00		5	0.1	P
Cadmium	226.50		5	0.4	P
Calcium	317.90		5000	5.6	P
Chromium	267.70		10	0.9	P
Cobalt	228.60		50	1.0	P
Copper	324.70		25	1.3	P
Iron	271.40		100	18.1	P
Lead	220.40		3	2.3	P
Magnesium	279.00		5000	7.5	P
Manganese	257.60		15	0.3	P
Mercury			0.2		NR
Nickel	231.60		40	1.4	P
Potassium	766.50		5000	16.6	P
Selenium	196.00		5	3.0	P
Silver	328.00		10	1.1	P
Sodium	588.90		5000	473.0	P
Thallium	190.90		10	3.1	P
Vanadium	292.40		50	1.0	P
Zinc	206.20		20	1.6	P
Cyanide			10		NR

Comments:
P2: ICP 61E TRACE ANALYZER

000052

U.S. EPA - CLP

10
INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-W0-0088

Lab Code: CHEMED Case No.: 31180 SAS No.: SDG No.: ME01H0

ICP ID Number: Date: 10/17/02

Flame AA ID Number: CV2

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	0.2	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:
CV2: LEMAN HYDRA AA- MERCURY ANALYZER

000053

U.S. EPA - CLP

10

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-W0-0088

Lab Code: CHEMED Case No.: 31180 SAS No.: SDG No.: ME01H0

ICP ID Number: Date: 10/16/02

Flame AA ID Number: CN

Furnace AA ID Number:

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200		NR
Antimony			60		NR
Arsenic			10		NR
Barium			200		NR
Beryllium			5		NR
Cadmium			5		NR
Calcium			5000		NR
Chromium			10		NR
Cobalt			50		NR
Copper			25		NR
Iron			100		NR
Lead			3		NR
Magnesium			5000		NR
Manganese			15		NR
Mercury			0.2		NR
Nickel			40		NR
Potassium			5000		NR
Selenium			5		NR
Silver			10		NR
Sodium			5000		NR
Thallium			10		NR
Vanadium			50		NR
Zinc			20		NR
Cyanide	578.00		10	1.1	CA

Comments:

CN: SPECTRO PHOTO METER GBC UV

000054

13
PREPARATION LOG

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-W0-0088

Lab Code: CHEMED Case No.: 31180 SAS No.: SDG No.: ME01H0

Method: P

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
LCSS	11/20/02	1.00	200
ME01H0	11/20/02	1.00	200
ME01H1	11/20/02	1.02	200
ME01H2	11/20/02	1.03	200
ME01H3	11/20/02	1.00	200
ME01H3D	11/20/02	1.00	200
ME01H3S	11/20/02	1.00	200
ME01H4	11/20/02	1.02	200
ME01H5	11/20/02	1.01	200
ME01H6	11/20/02	1.01	200
ME01H7	11/20/02	1.03	200
ME01H8	11/20/02	1.02	200
ME01H9	11/20/02	1.02	200
ME01J0	11/20/02	1.00	200
ME01J1	11/20/02	1.00	200
ME01J3	11/20/02	1.01	200
ME01J8	11/20/02	1.01	200
ME01L3	11/20/02	1.03	200
PBS	11/20/02	1.00	200

U.S. EPA - CLP

13
PREPARATION LOG

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-W0-0088

Lab Code: CHEMED Case No.: 31180 SAS No.: SDG No.: ME01H0

Method: CV

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
LCSS	11/27/02	0.20	100
ME01H0	11/27/02	0.21	100
ME01H1	11/27/02	0.21	100
ME01H2	11/27/02	0.22	100
ME01H3	11/27/02	0.20	100
ME01H3D	11/27/02	0.20	100
ME01H3S	11/27/02	0.20	100
ME01H4	11/27/02	0.21	100
ME01H5	11/27/02	0.22	100
ME01H6	11/27/02	0.21	100
ME01H7	11/27/02	0.22	100
ME01H8	11/27/02	0.21	100
ME01H9	11/27/02	0.22	100
ME01J0	11/27/02	0.21	100
ME01J1	11/27/02	0.22	100
ME01J3	11/27/02	0.21	100
ME01J8	11/27/02	0.22	100
ME01L3	11/27/02	0.21	100
PBS	11/27/02	0.20	100

13
PREPARATION LOG

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-W0-0088

Lab Code: CHEMED Case No.: 31180 SAS No.: SDG No.: ME01H0

Method: CA

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
LCSS	11/27/02	1.00	50
ME01H0	11/27/02	1.00	50
ME01H1	11/27/02	1.00	50
ME01H2	11/27/02	1.00	50
ME01H3	11/27/02	1.00	50
ME01H3D	11/27/02	1.00	50
ME01H3S	11/27/02	1.00	50
ME01H4	11/27/02	1.00	50
ME01H5	11/27/02	1.00	50
ME01H6	11/27/02	1.00	50
ME01H7	11/27/02	1.00	50
ME01H8	11/27/02	1.00	50
ME01H9	11/27/02	1.00	50
ME01J0	11/27/02	1.00	50
ME01J1	11/27/02	1.00	50
ME01J3	11/27/02	1.00	50
ME01J8	11/27/02	1.00	50
ME01L3	11/27/02	1.00	50
PBS	11/27/02	1.00	50

DATE: December 10, 2002

DEC 16 2002

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

Attn: Bob Casper

SITE NAME: Dixon Municipal Dump

CASE NO.	LAB	NO. OF SAMPLES	SDG	MATRIX
31180	Chemtech	11	ME01J9	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

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE: December 10, 2002

SUBJECT: Review of Data
Received for Review on December 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: Dixon Municipal LF

CASE NUMBER: 31180 SDG NUMBER: ME01J9

Number and Type of Samples: 11 waters

Sample Numbers: ME01J9; ME01K0,3-6,8,9; ME01L0-2

Laboratory: Chemtech Hrs. for Review: 2

Following are our findings:

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

Case Number : 31180
Site Name: Dixon Municipal LF

SDG Number: ME01J9
Laboratory: Chemtech

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

Eleven water samples numbered ME01J9, ME01K0, ME01K3-6, ME01K8, ME01K9, ME01L0-2 were collected on November 13 and 14, 2002. The lab received the samples on November 15 and 18, 2002 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: December 10, 2002

Case Number : 31180
Site Name: Dixon Municipal LF

SDG Number: ME01J9
Laboratory: Chemtech

1. HOLDING TIME:

Holding Time Report

SDG NO: ME01J9

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

No problems found for this qualification.

2. CALIBRATIONS:

Calibration Report

SDG NO: ME01J9

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

SDG NO: ME01J9

Assembled By: ESAT
Date: December 10, 2002

Case Number : 31180
Site Name: Dixon Municipal LF

SDG Number: ME01J9
Laboratory: Chemtech

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

Thallium
ME01J9, ME01K0, ME01K3, ME01K4, ME01K5, ME01K6
ME01K8, ME01K9, ME01L0, ME01L1, ME01L2, PBW04

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

Beryllium
ME01J9, ME01K0, ME01K3, ME01K4, ME01K5, ME01K6
ME01K8, ME01K9, ME01L0, ME01L1, ME01L2, PBW04

Cadmium
ME01K0, ME01K5, ME01K6, ME01K8, ME01K9, ME01L0
ME01L1, ME01L2

Lead
ME01J9, ME01K0, ME01K3, ME01K4, ME01K5, ME01K6
ME01K8, ME01K9, ME01L0, ME01L1, ME01L2, PBW04

Manganese
ME01J9, ME01K0, ME01K3, ME01K4, ME01K5, ME01K6
ME01K8, ME01K9, ME01L0, ME01L1, ME01L2, PBW04

Mercury
ME01J9, ME01K3, ME01K5, ME01K6, ME01K8, ME01L2
PBW01

Selenium
ME01J9, ME01K0, ME01K3, ME01K4, ME01K5, ME01K6
ME01K8, ME01K9, ME01L0, ME01L1, ME01L2, PBW04

Zinc
ME01K0, ME01K5, ME01K6, ME01K8, ME01K9, ME01L0
ME01L1, ME01L2

3. BLANKS:

Laboratory Blanks Report

SDG NO: ME01J9

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.

Aluminum
ME01K4, ME01K4D, ME01K9, ME01L0, ME01L1

Assembled By: ESAT
Date: December 10, 2002

Case Number : 31180
Site Name: Dixon Municipal LF

SDG Number: ME01J9
Laboratory: Chemtech

Antimony
ME01K4

Beryllium
ME01J9, ME01K0, ME01K3, ME01K3D, ME01K4, ME01K4D
ME01K5, ME01K6, ME01K8, ME01K9, ME01L0, ME01L1
ME01L2

Calcium
ME01J9, ME01K0

Magnesium
ME01K0

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

ME01J9, ME01K3, ME01K3D, ME01K3S, ME01K5, ME01K6
ME01K8, ME01L2

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

||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||

Matrix Spike Report

SDG NO: ME01J9

||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||

MATRIX SPIKE CRITERIA

Inorganic

Percent Recovery Limits	
Upper	125.0
Lower	75.0
Extreme lower	30.0

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".

Silver
ME01J9, ME01K0, ME01K3, ME01K3D, ME01K4, ME01K4D
ME01K5, ME01K6, ME01K8, ME01K9, ME01L0, ME01L1
ME01L2

||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||

LCS Report

SDG NO: ME01J9

||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||

No problems found for this qualification.

Assembled By: ESAT
Date: December 10, 2002

Case Number : 31180
Site Name: Dixon Municipal LF

SDG Number: ME01J9
Laboratory: Chemtech

5 LABORATORY AND FIELD DUPLICATE

Duplicates Report

SDG NO: ME01J9

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".

Iron
ME01J9, ME01K0, ME01K3, ME01K3S, ME01K4, ME01K4S
ME01K5, ME01K6, ME01K8, ME01K9, ME01L0, ME01L1
ME01L2

DC-330: The following inorganic samples are associated with duplicate results which did not meet absolute difference criteria.
Hits are qualified "J" and non-detects are qualified "UJ".

Manganese
ME01J9, ME01K0, ME01K3, ME01K3S, ME01K4, ME01K4S
ME01K5, ME01K6, ME01K8, ME01K9, ME01L0, ME01L1
ME01L2

ICP ANALYSIS

ICS Report

SDG NO: ME01J9

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
ME01K3, ME01K4, ME01K5, ME01K6, ME01K8, ME01K9
ME01L0, ME01L1, ME01L2

Serial Dilution Report

SDG NO: ME01J9

DC-294: The analyte concentration is high (>50 X the IDL) and serial dilution percent difference is not in criteria (>10%).
Hits are qualified "J" and non-detects are qualified "UJ".

Assembled By: ESAT
Date: December 10, 2002

Sodium
ME01J9, ME01K0, ME01K3, ME01K3D, ME01K4, ME01K4D
ME01K5, ME01K6, ME01K8, ME01K9, ME01L0, ME01L1
ME01L2

7. GFAA ANALYSIS

||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||

Furnace AA QC Report

SDG NO: ME01J9

||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||

No problems found for this qualification.

8. SAMPLE RESULTS

All data, except those qualified above, are acceptable.

||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||

Sample Result Verification Report

SDG NO: ME01J9

||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||

No problems found for this qualification.

Assembled By: ESAT
Date: December 10, 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 #: 31180 SDG : ME01J9
Site : DIXON MUNICIPAL LANDFILL
Lab. : CHEMED
Reviewer :
Date :

Number of Soil Samples : 0
Number of Water Samples : 11

Sample Number :	ME01J9		ME01K0		ME01K3		ME01K4		ME01K5	
Sampling Location :	G 106 FIELD BLANK		G 106 F FIELD BLAN		G101		G101 F		G103	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	11/14/2002		11/14/2002		11/13/2002		11/13/2002		11/14/2002	
Time Sampled :	11:30		11:30				13:00		09:32	
%Solids :	0.0		0.0		0.0		0.0		0.0	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	28.3	U	28.3	U	403		52.4	J	9360	
ANTIMONY	2.0	U	2.0	U	2.0	U	2.1	J	2.0	U
ARSENIC	2.6	U	2.6	U	2.6	U	2.6	U	15.5	
BARIUM	2.4	U	2.4	U	58.0		45.3		243	
BERYLLIUM	0.60	J	0.64	J	0.65	J	0.61	J	1.9	J
CADMIUM	0.50	U	0.50	U	0.50	U	0.50	U	0.72	
CALCIUM	26.2	J	75.7	J	93500		85400		152000	
CHROMIUM	0.60	U	0.60	U	1.9		0.60	U	57.8	
COBALT	1.3	U	1.3	U	1.3		1.3	U	24.2	
COPPER	2.1	U	2.1	U	8.8		2.1	U	42.3	
IRON	18.3	UJ	18.3	UJ	621	J	18.3	UJ	31900	J
LEAD	1.5	U	1.5	U	2.1		1.5	U	45.3	
MAGNESIUM	4.5	U	18.2	J	49100		45400		82000	
MANGANESE	0.67	J	1.8	J	170	J	74.4	J	2060	J
MERCURY	0.20	U	0.20	U	0.20	U	0.20	U	0.81	
NICKEL	2.9	U	2.9	U	2.9	U	2.9	U	51.3	
POTASSIUM	181	U	181	U	1360		1270		2810	
SELENIUM	2.5	U	2.5	U	2.5	U	2.5	U	2.7	
SILVER	0.80	UJ	0.80	UJ	0.80	UJ	0.80	UJ	0.80	UJ
SODIUM	189	UJ	189	UJ	10700	J	10900	J	50400	J
THALLIUM	7.0	U	7.0	U	7.0	U	7.0	U	7.0	U
VANADIUM	1.5	U	1.5	U	1.8		1.5	U	32.9	
ZINC	19.2		18.3		52.7		15.3		233	
CYANIDE	1.1	U			1.1	U			1.1	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 #: 31180 SDG : ME01J9
Site : DIXON MUNICIPAL LANDFILL
Lab. : CHEMED
Reviewer :
e :

Sample Number :	ME01K6		ME01K8		ME01K9		ME01L0		ME01L1	
Sampling Location :	G 103 D		G102		G 102 F		G 103 F		G 103 DF	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	11/14/2002		11/14/2002		11/14/2002		11/14/2002		11/14/2002	
Time Sampled :	09:32		11:50		11:50		09:32		09:32	
%Solids :	0.0		0.0		0.0		0.0		0.0	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	4220		9040		101	J	82.2	J	49.7	J
ANTIMONY	2.0	U	2.0	U	2.0	U	2.0		2.0	U
ARSENIC	7.3		12.0		2.6	U	2.6	U	2.6	U
BARIUM	149		238		53.6		66.8		64.2	
BERYLLIUM	1.3	J	1.6	J	0.77	J	0.77	J	0.75	J
CADMIUM	0.50	U	1.2		0.50	U	0.50	U	0.50	U
CALCIUM	123000		403000		82900		89600		87400	
CHROMIUM	32.0		56.0		0.60	U	0.60	U	0.60	U
COBALT	11.6		13.2		1.7		2.5		2.2	
COPPER	19.5		35.1		2.1	U	2.1	U	2.1	U
IRON	12600	J	24600	J	139	J	309	J	202	J
LEAD	22.1		44.0		1.5	U	1.5	U	1.5	U
MAGNESIUM	64100		280000		43500		45500		44200	
MANGANESE	962	J	3120	J	439	J	280	J	249	J
MERCURY	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U
NICKEL	23.4		76.3		4.8		2.9	U	2.9	U
POTASSIUM	2000		3420		1390		1310		1220	
SELENIUM	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
SILVER	0.80	UJ	0.80	UJ	0.80	UJ	0.80	UJ	0.80	UJ
SODIUM	48500	J	42600	J	37900	J	51300	J	49800	J
THALLIUM	7.0	U	7.3		7.0	U	7.0	U	7.0	U
VANADIUM	14.9		23.6		1.5	U	1.5	U	1.5	U
ZINC	117		230		18.0		18.2		16.1	
CYANIDE	1.1	U	1.1	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 #: 31180 SDG : ME01J9
Site : DIXON MUNICIPAL LANDFILL
Lab. : CHEMED
Reviewer :
Date :

Sample Number :	ME01L2		ME01K3D		ME01K3S		ME01K4D		ME01K4S	
Sampling Location :	G 107		G101		G101		G101 F		G101 F	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	11/14/2002		11/13/2002		11/13/2002		11/13/2002		11/13/2002	
Time Sampled :	16:15						13:00		13:00	
%Solids :	0.0		0.0		0.0		0.0		0.0	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	1400		475		2340		32.5	J	1890	
ANTIMONY	2.0	U	2.0	U	477		2.0	U	493	
ARSENIC	6.3		2.6	U	41.8		2.6	U	39.0	
BARIUM	3160		56.4		2200		42.7		2190	
BERYLLIUM	2.0	J	0.70	J	47.1		0.58	J	47.5	
CADMIUM	0.50	U	0.50	U	48.5		0.50	U	48.9	
CALCIUM	73100		90000				82200			
CHROMIUM	5.7		1.3		189		0.60	U	190	
COBALT	10.3		1.3		462		1.3	U	469	
COPPER	9.7		5.4		233		2.1	U	227	
IRON	2520	J	822		1740	J	18.3	U	876	J
LEAD	4.7		1.6		21.6		1.5	U	18.6	
MAGNESIUM	15200		47200				43400			
MANGANESE	166	J	166		647	J	49.5		522	J
MERCURY	0.20	U	0.20	U	0.94		0.20	U	1.0	
NICKEL	17.4		2.9	U	465		2.9	U	471	
POTASSIUM	4370		1310				1180			
SELENIUM	2.5	U	2.5	U	9.7		2.5	U	10.1	
SILVER	0.80	UJ	0.80	UJ	26.0		0.80	UJ	27.1	
SODIUM	47300	J	10300	J			10300	J		
THALLIUM	7.0	U	7.0	U	49.5		7.0	U	50.9	
VANADIUM	2.9		1.5		471		1.5	U	477	
ZINC	113		51.2		550		20.7		515	
CYANIDE	1.1	U	1.1	U	100					

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: 31180
DAS No:
SDG No: ME01J9

L

Date Shipped: 11/14/02 Carrier Name: UPS Airbill: 1z6215892210021869 Shipped to: Chemtech Consulting Group (CHEMED) Raritan Center 205 Campus Plaza 1 Edison NJ 08837 (732) 225-4111	Date Received/Received by: 11/15/02 Sunny Patel Lab Contract No: 68W00088 Unit Price: $69.00 Transfer To: Date Received/Received By: Lab Contract No: Price:	Sampler (Signature): Jerry Willman Relinquished By: Jerry Willman	Date / Time: 11/14/02 1720	Received By:
		Relinquished By:	Date / Time:	Received By:
		Relinquished By: UPS	Date / Time: 11/15/02 10:00	Received By: Sunny Patel

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
ME01H0	Soil/Sediment/ Jerry Willman	L/G	TM/CN (21)	5-066501 (Ice Only) (1)	X201	11/12/02 11:10	E01H0	
ME01H1	Soil/Sediment/ Jerry Willman	L/G	TM/CN (21)	5-66504 (Ice Only) (1)	X201D	11/12/02 11:10	E01H1	
ME01H2	Soil/Sediment/ Jerry Willman	L/G	TM/CN (21)	5-66507 (Ice Only) (1)	X202	11/12/02 12:10	E01H2	
ME01H3	Soil/Sediment/ Jerry Willman	L/G	TM/CN (21)	5-66510 (Ice Only) (1)	X203	11/12/02 12:45	E01H3	
ME01H4	Soil/Sediment/ Jerry Willman	L/G	TM/CN (21)	5-66513 (Ice Only) (1)	X204	11/12/02 13:35	E01H4	
ME01H5	Soil/Sediment/ Jerry Willman	L/G	TM/CN (21)	5-66516 (Ice Only) (1)	X205	11/12/02 15:35	E01H5	
ME01H6	Soil/Sediment/ Jerry Willman	L/G	TM/CN (21)	5-66519 (Ice Only) (1)	X206	11/12/02 14:20	E01H6	
ME01H7	Soil/Sediment/ Jerry Willman	L/G	TM/CN (21)	5-66522 (Ice Only) (1)	X207	11/12/02 15:10	E01H7	
ME01H8	Soil/Sediment/ Jerry Willman	L/G	TM/CN (21)	5-66525 (Ice Only) (1)	X208	11/12/02 16:30	E01H8	
ME01K3	Ground Water/ Jerry Willman	L/G	CN (21), TM (21)	5-66745 (HNO3), 5-66746 (HNO3), 5-66747 (HNO3), 5-66748 (NaOH), 5-66749 (NaOH), 5-66750 (NaOH) (6)	G101	11/13/02 1300	E01K3	

0001193
ECC 12
11/16

Original Form ... ME01H0
11/16/02

* Samples ME01H0 To ME01H8 is in SDG# ME01H0.
* Original TR is in SDG# ME01H0.

Shipment for Case Complete? Y	Sample(s) to be used for laboratory QC: ME01H3, ME01K3	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 5-0C	Chain of Custody Seal Number: 22623, 22624
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? yes / Shipment Iced? yes
CN = Cyanide, TM = CLP TAL Total Metals, TM/CN = CLP TAL Total Metals and Cyanide				

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: 5-324306854-111502-0001

USEPA Contract Laboratory Program
Inorganic Traffic Report

Case No: 31180
DAS No:
SDG No: ME01J9

L

Date Shipped: 11/14/02 Carrier Name: UPS Airbill: 1z6215892210021869 Shipped to: Chemtech Consulting Group (CHEMED) Raritan Center 205 Campus Plaza 1 Edison NJ 08837 (732) 225-4111	Date Received/Received by: 11/15/02 Sunny Patel Lab Contract No: 68W00088 Unit Price: $69.00 Transfer To: Date Received/Received By: Lab Contract No: Price:	Sampler (Signature): Jerry Willman Relinquished By: Jerry Willman	Date / Time: 11-14-02/1720	Received By:
		Relinquished By:	Date / Time:	Received By:
		Relinquished By: 88 11/15/02 ~~UPS~~ UPS	Date / Time: 11/15/02 10:00	Received By: Sunny Patel

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
ME01H9	Soil/Sediment/ Jerry Willman	L/G	TM/CN (21)	5-66528 (Ice Only) (1)	X101	11/13/02 13:10	E01H9	
ME01J0	Soil/Sediment/ Jerry Willman	L/G	TM/CN (21)	5-66531 (Ice Only) (1)	X104	11/13/02 14:40	E01J0	
ME01J1	Soil/Sediment/ Jerry Willman	L/G	TM/CN (21)	5-66534 (Ice Only) (1)	X104 D	11/13/02 14:40	E01J1	
ME01J3	Soil/Sediment/ Jerry Willman	L/G	TM/CN (21)	5-66701 (Ice Only) (1)	X103	11/13/02 16:40	E01J3	
ME01J8	Soil/Sediment/ Jerry Willman	L/G	TM/CN (21)	5-66725 (Ice Only) (1)	X102	11/14/02 10:55	E01J8	
ME01J9	Ground Water/ Jerry Willman	L/G	CN (21), TM (21)	5-66729 (HNO3), 5-66730 (NaOH) (2)	G106 Field Blank	11/14/02 11:30	E01J9	
ME01K4	Ground Water/ Jerry Willman	L/G	DM (21)	5-66751 (HNO3), 5-66752 (HNO3), 5-66753 (HNO3) (3)	G101 F	11/13/02 13:00		
ME01K5	Ground Water/ Jerry Willman	L/G	CN (21)	5-66766 (NaOH) (1)	G103	11/14/02 9:32	E01K5	
ME01K6	Ground Water/ Jerry Willman	L/G	CN (21)	5-66769 (NaOH) (1)	G103 D	11/14/02 9:32	E01K6	
ME01K8	Ground Water/ Jerry Willman	L/G	CN (21)	5-66763 (NaOH) (1)	G102	11/14/02 11:50	E01K8	
ME01L3	Soil/Sediment/ Jerry Willman	L/G	TM/CN (21)	5-66222 (Ice Only) (1)	X105	11/14/02	E01L3	

Copy
Original Document ... ME01H0
Signature
11/21/02
Date

✡ Samples ME01H9 To ME01J8 & ME01L3 is in SDG# ME01H0.

✡ Original TR is in SDG# ME01H0.

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC: ME01K4	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 5.0	Chain of Custody Seal Number: 22623, 22624
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? yes / Shipment Iced? yes

CN = Cyanide, DM = CLP TAL Dissolved Metals, TM = CLP TAL Total Metals, TM/CN = CLP TAL Total Metals and Cyanide

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

TR Number: 5-324306854-111402-0001

F2V5.0 Page 1 of 1

00193-7 000194 11/19/

USEPA Contract Laboratory Program
Inorganic Traffic Report

Case No: 31180
DAS No:
SDG No: 11/18/02 ME01J9 ME01J9

L

Date Shipped: 11/15/02 Carrier Name: UPS Airbill: 1z6215892210022457 Shipped to: Chemtech Consulting Group (CHEMED) Raritan Center 205 Campus Plaza 1 Edison NJ 08837 (732) 225-4111	Date Received/Received by: 11/18/02 Sunny Patel Lab Contract No: 68W00088 Unit Price: $69.00 Transfer To: Date Received/Received By: Lab Contract No: Price:	Sampler (Signature): Jerry E Willman Relinquished By: Jerry E Willman	Date / Time: 11/14/02 21:53 Relinquished By: Relinquished By: UPS	Received By: Date / Time: Received By: Date / Time: 11/18/02 09:45 Received By: Sunny Patel.

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
ME01K0	Ground Water/ Jerry Willman	L/G	DM (21)	5-66731 (HNO3) (1)	G106 F Field Blank	11/14/02 11:30		
ME01K5	Ground Water/ Jerry Willman	L/G	TM (21)	5-66765 (HNO3) (1)	G103	11/14/02 9:32	E01K5	
ME01K6	Ground Water/ Jerry Willman	L/G	TM (21)	5-66768 (HNO3) (1)	G103 D	11/14/02 9:32	E01K6	
ME01K8	Ground Water/ Jerry Willman	L/G	TM (21)	5-66762 (HNO3) (1)	G102	11/14/02 11:50	E01K8	
ME01K9	Ground Water/ Jerry Willman	L/G	DM (21)	5-66764 (HNO3) (1)	G102 F	11/14/02 11:50		
ME01L0	Ground Water/ Jerry Willman	L/G	DM (21)	5-66767 (HNO3) (1)	G103 F	11/14/02 9:32		
ME01L1	Ground Water/ Jerry Willman	L/G	DM (21)	5-66770 (HNO3) (1)	G103 DF	11/14/02 9:32		
ME01L2	Ground Water/ Jerry Willman	L/G	CN (21), TM (21)	5-66771 (HNO3), 5-66772 (NaOH) (2)	G107	11/14/02 16:15		

000195

Shipment for Case Complete? Y	Sample(s) to be used for laboratory QC: ME01K4	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 5°C	Chain of Custody Seal Number: 22426
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? Yes Shipment Iced? Yes
CN = Cyanide, DM = CLP TAL Dissolved Metals, TM = CLP TAL Total Metals				

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: 5-324306854-111402-0004

DEC 19 2002

CHEMTECH

SDG NARRATIVE

USEPA
SDG # ME01J9
CASE # 31180
CONTRACT # 68-W0-0088
LAB CODE: CHEMED
CHEMTECH PROJECT #P5168

A. Number of Samples and Date of Receipt

11 Water samples were delivered to the laboratory intact on 11/15/02 and 11/18/02.

B. Parameters
Test requested for Total, Dissolved Metals and Cyanide.

C. Cooler Temp
Indicator Bottle: Presence/Absence
Cooler Temp: 5°C

D. Detail Documentation (related to Sample Handling Shipping, Analytical Problem, Temp of Cooler etc):

Lab received one extra Airbill (# 1Z6215892210021878), which was nor listed in the TR.

For details, please check the attached E-mail Communication page at the end of the Data Package.

E. Corrective Action taken for above:

Per Region 5, Please note the TR/COC discrepancy in the SDG narrative and proceed.

For details Regional Resolutions, please check the attached E-mail Communication page at the end of the Data Package.

F. Analytical Techniques:

All analyses were based on CLP Methodology by method ILM04.1.

G. QA/ QC

Calibrations met requirements. Interference check met requirements. Blank analyses did not indicate the presence of contamination. Laboratory Control sample was within control limits. Spike sample met requirements except for the Silver. Duplicate sample did met requirements except for iron and Manganese. Serial Dilution did met requirements except for the Sodium.

CHEMTECH

I certify that the 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 hard copy data package has been authorized by the Laboratory Director or his designee, as verified by the following signature.

Signature _____ Name: Parveen Hasan

Date 12/06/02 Title: QA/QC

DEC 09 2002

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-W0-0088

Lab Code: CHEMED Case No.: 31180 SAS No.: SDG No.: ME01J9

SOW No.: ILM04.1

EPA SAMPLE NO.	Lab Sample ID.
ME01J9	P5168-01S
ME01K0	P5168-08S
ME01K3	P5168-05S
ME01K3D	P5168-06S
ME01K3S	P5168-07S
ME01K4	P5168-02S
ME01K4D	P5168-03S
ME01K4S	P5168-04S
ME01K5	P5168-09S
ME01K6	P5168-10S
ME01K8	P5168-11S
ME01K9	P5168-12S
ME01L0	P5168-13S
ME01L1	P5168-14S
ME01L2	P5168-15S

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:
The "E" qualifiers on Form I and IX for Sodium indicate chemical or physical interference effects, which were suspected during that element's analyses only.

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: Mildred V. Reyes Name: MILDRED V. REYES

Date: 12/6/02 Title: QA/QC DIRECTOR

000001

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

ME01J9

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-W0-0088

Lab Code: CHEMED Case No.: 31180 SAS No.: SDG No.: ME01J9

Matrix (soil/water): WATER Lab Sample ID: P5168-01S

Level (low/med): LOW Date Received: 11/15/02

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	28.3	U		P
7440-36-0	Antimony	2.0	U		P
7440-38-2	Arsenic	2.6	U		P
7440-39-3	Barium	2.4	U		P
7440-41-7	Beryllium	0.60	B		P
7440-43-9	Cadmium	0.50	U		P
7440-70-2	Calcium	26.2	B		P
7440-47-3	Chromium	0.60	U		P
7440-48-4	Cobalt	1.3	U		P
7440-50-8	Copper	2.1	U		P
7439-89-6	Iron	18.3	U	*	P
7439-92-1	Lead	1.5	U		P
7439-95-4	Magnesium	4.5	U		P
7439-96-5	Manganese	0.67	B	*	P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	2.9	U		P
7440-09-7	Potassium	181	U		P
7782-49-2	Selenium	2.5	U		P
7440-22-4	Silver	0.80	U	N	P
7440-23-5	Sodium	189	U	E	P
7440-28-0	Thallium	7.0	U		P
7440-62-2	Vanadium	1.5	U		P
7440-66-6	Zinc	19.2	B		P
	Cyanide	1.1	U		CA

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

ME01K0

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-W0-0088

Lab Code: CHEMED Case No.: 31180 SAS No.: SDG No.: ME01J9

Matrix (soil/water): WATER Lab Sample ID: P5168-08S

Level (low/med): LOW Date Received: 11/18/02

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	28.3	U		P
7440-36-0	Antimony	2.0	U		P
7440-38-2	Arsenic	2.6	U		P
7440-39-3	Barium	2.4	U		P
7440-41-7	Beryllium	0.64	B		P
7440-43-9	Cadmium	0.50	U		P
7440-70-2	Calcium	75.7	B		P
7440-47-3	Chromium	0.60	U		P
7440-48-4	Cobalt	1.3	U		P
7440-50-8	Copper	2.1	U		P
7439-89-6	Iron	18.3	U	*	P
7439-92-1	Lead	1.5	U		P
7439-95-4	Magnesium	18.2	B		P
7439-96-5	Manganese	1.8	B	*	P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	2.9	U		P
7440-09-7	Potassium	181	U		P
7782-49-2	Selenium	2.5	U		P
7440-22-4	Silver	0.80	U	N	P
7440-23-5	Sodium	189	U	E	P
7440-28-0	Thallium	7.0	U		P
7440-62-2	Vanadium	1.5	U		P
7440-66-6	Zinc	18.3	B		P
	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

ME01K3

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-W0-0088

Lab Code: CHEMED Case No.: 31180 SAS No.: SDG No.: ME01J9

Matrix (soil/water): WATER Lab Sample ID: P5168-05S

Level (low/med): LOW Date Received: 11/15/02

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	403			P
7440-36-0	Antimony	2.0	U		P
7440-38-2	Arsenic	2.6	U		P
7440-39-3	Barium	58.0	B		P
7440-41-7	Beryllium	0.65	B		P
7440-43-9	Cadmium	0.50	U		P
7440-70-2	Calcium	93500			P
7440-47-3	Chromium	1.9	B		P
7440-48-4	Cobalt	1.3	B		P
7440-50-8	Copper	8.8	B		P
7439-89-6	Iron	621		*	P
7439-92-1	Lead	2.1	B		P
7439-95-4	Magnesium	49100			P
7439-96-5	Manganese	170		*	P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	2.9	U		P
7440-09-7	Potassium	1360	B		P
7782-49-2	Selenium	2.5	U		P
7440-22-4	Silver	0.80	U	N	P
7440-23-5	Sodium	10700		E	P
7440-28-0	Thallium	7.0	U		P
7440-62-2	Vanadium	1.8	B		P
7440-66-6	Zinc	52.7			P
	Cyanide	1.1	U		CA

Color Before: COLORLESS Clarity Before: CLOUDY Texture:

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

ME01K4

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-W0-0088

Lab Code: CHEMED Case No.: 31180 SAS No.: SDG No.: ME01J9

Matrix (soil/water): WATER Lab Sample ID: P5168-02S

Level (low/med): LOW Date Received: 11/15/02

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	52.4	B		P
7440-36-0	Antimony	2.1	B		P
7440-38-2	Arsenic	2.6	U		P
7440-39-3	Barium	45.3	B		P
7440-41-7	Beryllium	0.61	B		P
7440-43-9	Cadmium	0.50	U		P
7440-70-2	Calcium	85400			P
7440-47-3	Chromium	0.60	U		P
7440-48-4	Cobalt	1.3	U		P
7440-50-8	Copper	2.1	U		P
7439-89-6	Iron	18.3	U	*	P
7439-92-1	Lead	1.5	U		P
7439-95-4	Magnesium	45400			P
7439-96-5	Manganese	74.4		*	P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	2.9	U		P
7440-09-7	Potassium	1270	B		P
7782-49-2	Selenium	2.5	U		P
7440-22-4	Silver	0.80	U	N	P
7440-23-5	Sodium	10900		E	P
7440-28-0	Thallium	7.0	U		P
7440-62-2	Vanadium	1.5	U		P
7440-66-6	Zinc	15.3	B		P
	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP
1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

ME01K5

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-W0-0088

Lab Code: CHEMED Case No.: 31180 SAS No.: SDG No.: ME01J9

Matrix (soil/water): WATER Lab Sample ID: P5168-09S

Level (low/med): LOW Date Received: 11/18/02

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	9360			P
7440-36-0	Antimony	2.0	U		P
7440-38-2	Arsenic	15.5			P
7440-39-3	Barium	243			P
7440-41-7	Beryllium	1.9	B		P
7440-43-9	Cadmium	0.72	B		P
7440-70-2	Calcium	152000			P
7440-47-3	Chromium	57.8			P
7440-48-4	Cobalt	24.2	B		P
7440-50-8	Copper	42.3			P
7439-89-6	Iron	31900		*	P
7439-92-1	Lead	45.3			P
7439-95-4	Magnesium	82000			P
7439-96-5	Manganese	2060		*	P
7439-97-6	Mercury	0.81			CV
7440-02-0	Nickel	51.3			P
7440-09-7	Potassium	2810	B		P
7782-49-2	Selenium	2.7	B		P
7440-22-4	Silver	0.80	U	N	P
7440-23-5	Sodium	50400		E	P
7440-28-0	Thallium	7.0	U		P
7440-62-2	Vanadium	32.9	B		P
7440-66-6	Zinc	233			P
	Cyanide	1.1	U		CA

Color Before: BROWN Clarity Before: CLOUDY Texture:

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME01K6

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-W0-0088

Lab Code: CHEMED Case No.: 31180 SAS No.: SDG No.: ME01J9

Matrix (soil/water): WATER Lab Sample ID: P5168-10S

Level (low/med): LOW Date Received: 11/18/02

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4220			P
7440-36-0	Antimony	2.0	U		P
7440-38-2	Arsenic	7.3	B		P
7440-39-3	Barium	149	B		P
7440-41-7	Beryllium	1.3	B		P
7440-43-9	Cadmium	0.50	U		P
7440-70-2	Calcium	123000			P
7440-47-3	Chromium	32.0			P
7440-48-4	Cobalt	11.6	B		P
7440-50-8	Copper	19.5	B		P
7439-89-6	Iron	12600		*	P
7439-92-1	Lead	22.1			P
7439-95-4	Magnesium	64100			P
7439-96-5	Manganese	962		*	P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	23.4	B		P
7440-09-7	Potassium	2000	B		P
7782-49-2	Selenium	2.5	U		P
7440-22-4	Silver	0.80	U	N	P
7440-23-5	Sodium	48500		E	P
7440-28-0	Thallium	7.0	U		P
7440-62-2	Vanadium	14.9	B		P
7440-66-6	Zinc	117			P
	Cyanide	1.1	U		CA

Color Before: BROWN Clarity Before: CLOUDY Texture:

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

ME01K8

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-W0-0088

Lab Code: CHEMED Case No.: 31180 SAS No.: SDG No.: ME01J9

Matrix (soil/water): WATER Lab Sample ID: P5168-11S

Level (low/med): LOW Date Received: 11/18/02

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	9040			P
7440-36-0	Antimony	2.0	U		P
7440-38-2	Arsenic	12.0			P
7440-39-3	Barium	238			P
7440-41-7	Beryllium	1.6	B		P
7440-43-9	Cadmium	1.2	B		P
7440-70-2	Calcium	403000			P
7440-47-3	Chromium	56.0			P
7440-48-4	Cobalt	13.2	B		P
7440-50-8	Copper	35.1			P
7439-89-6	Iron	24600		*	P
7439-92-1	Lead	44.0			P
7439-95-4	Magnesium	280000			P
7439-96-5	Manganese	3120		*	P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	76.3			P
7440-09-7	Potassium	3420	B		P
7782-49-2	Selenium	2.5	U		P
7440-22-4	Silver	0.80	U	N	P
7440-23-5	Sodium	42600		E	P
7440-28-0	Thallium	7.3	B		P
7440-62-2	Vanadium	23.6	B		P
7440-66-6	Zinc	230			P
	Cyanide	1.1	U		CA

Color Before: BROWN Clarity Before: CLOUDY Texture:

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

ME01K9

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-W0-0088

Lab Code: CHEMED Case No.: 31180 SAS No.: SDG No.: ME01J9

Matrix (soil/water): WATER Lab Sample ID: P5168-12S

Level (low/med): LOW Date Received: 11/18/02

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	101	B		P
7440-36-0	Antimony	2.0	U		P
7440-38-2	Arsenic	2.6	U		P
7440-39-3	Barium	53.6	B		P
7440-41-7	Beryllium	0.77	B		P
7440-43-9	Cadmium	0.50	U		P
7440-70-2	Calcium	82900			P
7440-47-3	Chromium	0.60	U		P
7440-48-4	Cobalt	1.7	B		P
7440-50-8	Copper	2.1	U		P
7439-89-6	Iron	139		*	P
7439-92-1	Lead	1.5	U		P
7439-95-4	Magnesium	43500			P
7439-96-5	Manganese	439		*	P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	4.8	B		P
7440-09-7	Potassium	1390	B		P
7782-49-2	Selenium	2.5	U		P
7440-22-4	Silver	0.80	U	N	P
7440-23-5	Sodium	37900		E	P
7440-28-0	Thallium	7.0	U		P
7440-62-2	Vanadium	1.5	U		P
7440-66-6	Zinc	18.0	B		P
	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

ME01L0

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-W0-0088

Lab Code: CHEMED Case No.: 31180 SAS No.: SDG No.: ME01J9

Matrix (soil/water): WATER Lab Sample ID: P5168-13S

Level (low/med): LOW Date Received: 11/18/02

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	82.2	B		P
7440-36-0	Antimony	2.0	B		P
7440-38-2	Arsenic	2.6	U		P
7440-39-3	Barium	66.8	B		P
7440-41-7	Beryllium	0.77	B		P
7440-43-9	Cadmium	0.50	U		P
7440-70-2	Calcium	89600			P
7440-47-3	Chromium	0.60	U		P
7440-48-4	Cobalt	2.5	B		P
7440-50-8	Copper	2.1	U		P
7439-89-6	Iron	309		*	P
7439-92-1	Lead	1.5	U		P
7439-95-4	Magnesium	45500			P
7439-96-5	Manganese	280		*	P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	2.9	U		P
7440-09-7	Potassium	1310	B		P
7782-49-2	Selenium	2.5	U		P
7440-22-4	Silver	0.80	U	N	P
7440-23-5	Sodium	51300		E	P
7440-28-0	Thallium	7.0	U		P
7440-62-2	Vanadium	1.5	U		P
7440-66-6	Zinc	18.2	B		P
	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME01L1

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-W0-0088

Lab Code: CHEMED Case No.: 31180 SAS No.: SDG No.: ME01J9

Matrix (soil/water): WATER Lab Sample ID: P5168-14S

Level (low/med): LOW Date Received: 11/18/02

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	49.7	B		P
7440-36-0	Antimony	2.0	U		P
7440-38-2	Arsenic	2.6	U		P
7440-39-3	Barium	64.2	B		P
7440-41-7	Beryllium	0.75	B		P
7440-43-9	Cadmium	0.50	U		P
7440-70-2	Calcium	87400			P
7440-47-3	Chromium	0.60	U		P
7440-48-4	Cobalt	2.2	B		P
7440-50-8	Copper	2.1	U		P
7439-89-6	Iron	202		*	P
7439-92-1	Lead	1.5	U		P
7439-95-4	Magnesium	44200			P
7439-96-5	Manganese	249		*	P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	2.9	U		P
7440-09-7	Potassium	1220	B		P
7782-49-2	Selenium	2.5	U		P
7440-22-4	Silver	0.80	U	N	P
7440-23-5	Sodium	49800		E	P
7440-28-0	Thallium	7.0	U		P
7440-62-2	Vanadium	1.5	U		P
7440-66-6	Zinc	16.1	B		P
	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

3
BLANKS

La' Name: CHEMTECH CONSULTING GROUP Contract: 68-W0-0088

Lab Code: CHEMED Case No.: 31180 SAS No.: SDG No.: ME01J9

Preparation Blank Matrix (soil/water): WATER

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

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum	28.3	U	28.3	U	28.3	U	45.3	B	28.355	B	P
Antimony	2.9	B	2.0	U	2.0	U	2.0	U	2.190	B	P
Arsenic	2.6	U	2.6	U	2.6	U	2.6	U	2.600	U	P
Barium	2.4	U	2.4	U	2.4	U	2.4	U	2.400	U	P
Beryllium	0.4	U	0.4	U	0.4	U	0.4	U	0.490	B	P
Cadmium	0.5	U	0.5	U	0.5	U	0.5	U	0.500	U	P
Calcium	5.3	B	21.7	B	4.6	U	33.0	B	4.600	U	P
Chromium	0.6	U	0.6	U	0.6	U	0.6	U	0.600	U	P
Cobalt	1.3	U	1.3	U	1.3	U	1.3	U	1.300	U	P
Copper	2.1	U	2.1	U	2.1	U	2.1	U	2.100	U	P
Iron	18.3	U	18.3	U	18.3	U	18.3	U	18.300	U	P
Lead	1.5	U	2.0	B	1.5	U	1.5	U	1.500	U	P
Magnesium	4.5	U	21.2	B	4.5	U	25.3	B	4.500	U	P
Manganese	0.6	U	0.6	U	0.6	U	0.6	U	0.600	U	P
Mercury	0.2	U	0.2	U	0.2	U	0.2	U	0.200	U	CV
Nickel	2.9	U	2.9	U	2.9	U	2.9	U	2.900	U	P
Potassium	181.0	U	181.0	U	181.0	U	181.0	U	181.000	U	P
Selenium	2.5	U	2.8	B	2.5	B	2.8	B	2.500	U	P
Silver	0.8	U	0.8	U	1.1	B	0.8	U	0.800	U	P
Sodium	189.0	U	189.0	U	189.0	U	189.0	U	189.000	U	P
Thallium	7.0	U	7.0	U	7.0	U	7.0	U	7.000	U	P
Vanadium	1.5	U	1.5	U	1.5	U	1.5	U	1.500	U	P
Zinc	1.0	U	1.0	U	1.0	U	1.0	U	1.000	U	P
Cyanide	1.1	U	1.1	U	1.1	U	1.1	U	1.100	U	CA

3
BLANKS

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-W0-0088

Lab Code: CHEMED Case No.: 31180 SAS No.: SDG No.: ME01J9

Preparation Blank Matrix (soil/water): WATER

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

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum			29.6	B	45.1	B	32.0	B			P
Antimony			2.0	U	2.0	U	2.4	B			P
Arsenic			2.6	U	2.6	U	2.6	U			P
Barium			2.4	U	2.4	U	2.4	U			P
Beryllium			0.5	B	0.6	B	0.7	B			P
Cadmium			0.5	U	0.5	U	0.5	U			P
Calcium			4.6	U	33.8	B	23.2	B			P
Chromium			0.6	U	0.6	U	0.6	U			P
Cobalt			1.3	U	1.3	U	1.3	U			P
Copper			2.1	U	2.1	U	2.1	U			P
Iron			18.3	U	18.3	U	18.3	U			P
Lead			1.5	U	1.5	U	1.5	U			P
Magnesium			4.5	U	31.7	B	4.5	U			P
Manganese			0.6	U	0.6	U	0.6	U			P
Mercury			0.2	U	0.2	U			0.200	U	CV
Nickel			2.9	U	2.9	U	2.9	U			P
Potassium			181.0	U	181.0	U	181.0	U			P
Selenium			2.5	U	2.5	U	2.5	U			P
Silver			0.8	U	0.8	U	0.8	U			P
Sodium			189.0	U	189.0	U	189.0	U			P
Thallium			7.0	U	7.0	U	7.0	U			P
Vanadium			1.5	U	1.5	U	1.5	U			P
Zinc			1.0	U	1.0	U	1.0	U			P
Cyanide											NR

U.S. EPA - CLP

3
BLANKS

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-W0-0088

Lab Code: CHEMED Case No.: 31180 SAS No.: SDG No.: ME01J9

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			50.4	B							P
Antimony			3.5	B							P
Arsenic			2.6	U							P
Barium			2.4	U							P
Beryllium			0.7	B							P
Cadmium			0.5	U							P
Calcium			38.4	B							P
Chromium			0.6	U							P
Cobalt			1.3	U							P
Copper			2.1	U							P
Iron			18.3	U							P
Lead			1.5	U							P
Magnesium			21.2	B							P
Manganese			0.6	U							P
Mercury	0.2	U	0.2	U	0.2	U	0.2	U			CV
Nickel			2.9	U							P
Potassium			181.0	U							P
Selenium			2.5	U							P
Silver			0.8	U							P
Sodium			189.0	U							P
Thallium			7.0	U							P
Vanadium			1.5	U							P
Zinc			1.0	U							P
Cyanide											NR

3
BLANKS

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-W0-0088

Lab Code: CHEMED Case No.: 31180 SAS No.: SDG No.: ME01J9

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			0.2	U	0.2	U					CV
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.

ME01K3S

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-W0-0088

Lab Code: CHEMED Case No.: 31180 SAS No.: SDG No.: ME01J9

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

% Solids for Sample: 0.0

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

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum	75-125	2339.5800		403.1450		2000.00	96.8		P
Antimony	75-125	477.0800		2.0000	U	500.00	95.4		P
Arsenic	75-125	41.8250		2.6000	U	40.00	104.6		P
Barium	75-125	2195.8050		57.9750	B	2000.00	106.9		P
Beryllium	75-125	47.1150		0.6500	B	50.00	92.9		P
Cadmium	75-125	48.4800		0.5000	U	50.00	97.0		P
Calcium									NR
Chromium	75-125	188.7950		1.9400	B	200.00	93.4		P
Cobalt	75-125	461.7450		1.3450	B	500.00	92.1		P
Copper	75-125	232.8400		8.8250	B	250.00	89.6		P
Iron	75-125	1738.1400		621.4200		1000.00	111.7		P
Lead	75-125	21.5900		2.1100	B	20.00	97.4		P
Magnesium									NR
Manganese	75-125	646.9300		170.3050		500.00	95.3		P
Mercury		0.9400		0.2000	U	0.00	94.0		CV
Nickel	75-125	465.2200		2.9000	U	500.00	93.0		P
Potassium									NR
Selenium	75-125	9.7250		2.5000	U	10.00	97.2		P
Silver	75-125	26.0100		0.8000	U	50.00	52.0	N	P
Sodium									NR
Thallium	75-125	49.4600		7.0000	U	50.00	98.9		P
Vanadium	75-125	470.6700		1.8050	B	500.00	93.8		P
Zinc	75-125	550.3450		52.7150		500.00	99.5		P
Cyanide	75-125	100.0000		1.1000	U	100.00	100.0		CA

Comments:

00031 PA 12/6/02

U.S. EPA - CLP

5A
SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

ME01K4S

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-W0-0088

Lab Code: CHEMED Case No.: 31180 SAS No.: SDG No.: ME01J9

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

% Solids for Sample: 0.0

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

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum	75-125	1890.9650		52.3600	B	2000.00	91.9		P
Antimony	75-125	492.8900		2.1050	B	500.00	98.2		P
Arsenic	75-125	39.0250		2.6000	U	40.00	97.6		P
Barium	75-125	2192.1850		45.3400	B	2000.00	107.3		P
Beryllium	75-125	47.5150		0.6100	B	50.00	93.8		P
Cadmium	75-125	48.9200		0.5000	U	50.00	97.8		P
Calcium									NR
Chromium	75-125	189.7850		0.6000	U	200.00	94.9		P
Cobalt	75-125	468.5850		1.3000	U	500.00	93.7		P
Copper	75-125	227.0800		2.1000	U	250.00	90.8		P
Iron	75-125	876.1650		18.3000	U	1000.00	87.6		P
Lead	75-125	18.6450		1.5000	U	20.00	93.2		P
Magnesium									NR
Manganese	75-125	522.0250		74.3950		500.00	89.5		P
Mercury	75-125	1.0100		0.2000	U	1.00	101.0		CV
Nickel	75-125	471.4250		2.9000	U	500.00	94.3		P
Potassium									NR
Selenium	75-125	10.0950		2.5000	U	10.00	101.0		P
Silver	75-125	27.1350		0.8000	U	50.00	54.3	N	P
Sodium									NR
Thallium	75-125	50.8900		7.0000	U	50.00	101.8		P
Vanadium	75-125	476.7200		1.5000	U	500.00	95.3		P
Zinc	75-125	515.4900		15.3450	B	500.00	100.0		P
Cyanide									NR

Comments:

U.S. EPA - CLP

6
DUPLICATES

EPA SAMPLE NO.

ME01K3D

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-W0-0088

Lab Code: CHEMED Case No.: 31180 SAS No.: SDG No.: ME01J9

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

% Solids for Sample: 0.0 % Solids for Duplicate: 0.0

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

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum	200.0	403.1450		475.3800		16.4		P
Antimony		2.0000	U	2.0000	U			P
Arsenic		2.6000	U	2.6000	U			P
Barium		57.9750	B	56.3550	B	2.8		P
Beryllium		0.6500	B	0.6950	B	6.7		P
Cadmium		0.5000	U	0.5000	U			P
Calcium		93487.2200		90027.4600		3.8		P
Chromium		1.9400	B	1.2600	B	42.5		P
Cobalt		1.3450	B	1.3450	B	0.0		P
Copper		8.8250	B	5.4300	B	47.6		P
Iron		621.4200		822.4450		27.8	*	P
Lead		2.1100	B	1.5650	B	29.7		P
Magnesium		49143.5500		47232.8150		4.0		P
Manganese		170.3050		166.0150		2.6		P
Mercury		0.2000	U	0.2000	U			CV
Nickel		2.9000	U	2.9000	U			P
Potassium		1356.0050	B	1312.9150	B	3.2		P
Selenium		2.5000	U	2.5000	U			P
Silver		0.8000	U	0.8000	U			P
Sodium	5000.0	10681.7350		10335.7350		3.3		P
Thallium		7.0000	U	7.0000	U			P
Vanadium		1.8050	B	1.5000	B	18.5		P
Zinc	20.0	52.7150		51.2100		2.9		P
Cyanide		1.1000	U	1.1000	U			CA

U.S. EPA - CLP

6
DUPLICATES

EPA SAMPLE NO.

ME01K4D

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-W0-0088

Lab Code: CHEMED Case No.: 31180 SAS No.: SDG No.: ME01J9

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

% Solids for Sample: 0.0 % Solids for Duplicate: 0.0

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

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum		52.3600	B	32.4850	B	46.9		P
Antimony		2.1050	B	2.0000	U	200.0		P
Arsenic		2.6000	U	2.6000	U			P
Barium		45.3400	B	42.7150	B	6.0		P
Beryllium		0.6100	B	0.5800	B	5.0		P
Cadmium		0.5000	U	0.5000	U			P
Calcium		85358.3150		82241.5600		3.7		P
Chromium		0.6000	U	0.6000	U			P
Cobalt		1.3000	U	1.3000	U			P
Copper		2.1000	U	2.1000	U			P
Iron		18.3000	U	18.3000	U			P
Lead		1.5000	U	1.5000	U			P
Magnesium		45381.7400		43383.0300		4.5		P
Manganese	15.0	74.3950		49.4800		40.2	*	P
Mercury		0.2000	U	0.2000	U			CV
Nickel		2.9000	U	2.9000	U			P
Potassium		1272.6250	B	1175.5000	B	7.9		P
Selenium		2.5000	U	2.5000	U			P
Silver		0.8000	U	0.8000	U			P
Sodium	5000.0	10921.4600		10311.0250		5.8		P
Thallium		7.0000	U	7.0000	U			P
Vanadium		1.5000	U	1.5000	U			P
Zinc	20.0	15.3450	B	20.6700		29.6		P
Cyanide								NR

U.S. EPA - CLP

9

ICP SERIAL DILUTIONS

EPA SAMPLE NO.

ME01K4L

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-W0-0088

Lab Code: CHEMED Case No.: 31180 SAS No.: SDG No.: ME01J9

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

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Differ-ence	Q	M
Aluminum	52.36	B	141.50	U	100.0		P
Antimony	2.10	B	10.00	U	100.0		P
Arsenic	2.60	U	13.00	U			P
Barium	45.34	B	44.30	B	2.3		P
Beryllium	0.61	B	2.88	B	372.1		P
Cadmium	0.50	U	2.50	U			P
Calcium	85358.32		87389.08		2.4		P
Chromium	0.60	U	3.00	U			P
Cobalt	1.30	U	6.50	U			P
Copper	2.10	U	10.50	U			P
Iron	18.30	U	91.50	U			P
Lead	1.50	U	7.50	U			P
Magnesium	45381.74		44204.08		2.6		P
Manganese	74.40		77.70		4.4		P
Mercury							NR
Nickel	2.90	U	14.50	U			P
Potassium	1272.62	B	1168.02	B	8.2		P
Selenium	2.50	U	12.50	U			P
Silver	0.80	U	4.00	U			P
Sodium	10921.46		9769.78	B	10.5	E	P
Thallium	7.00	U	35.00	U			P
Vanadium	1.50	U	7.50	U			P
Zinc	15.34	B	21.42	B	39.6		P

10

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-W0-0088

Lab Code: CHEMED Case No.: 31180 SAS No.: SDG No.: ME01J9

ICP ID Number: P1 Date: 11/08/02

Flame AA ID Number:

Furnace AA ID Number:

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum	308.20		200	28.3	P
Antimony	206.80		60	2.0	P
Arsenic	189.00		10	2.6	P
Barium	493.40		200	2.4	P
Beryllium	313.00		5	0.4	P
Cadmium	226.50		5	0.5	P
Calcium	317.90		5000	4.6	P
Chromium	267.70		10	0.6	P
Cobalt	228.60		50	1.3	P
Copper	324.70		25	2.1	P
Iron	271.40		100	18.3	P
Lead	220.40		3	1.5	P
Magnesium	279.00		5000	4.5	P
Manganese	257.60		15	0.6	P
Mercury			0.2		NR
Nickel	231.60		40	2.9	P
Potassium	766.50		5000	181.0	P
Selenium	196.00		5	2.5	P
Silver	328.00		10	0.8	P
Sodium	588.90		5000	189.0	P
Thallium	190.90		10	7.0	P
Vanadium	292.40		50	1.5	P
Zinc	206.20		20	1.0	P
Cyanide			10		NR

Comments:
P1: ICP 61E TRACE ANALYZER

U.S. EPA - CLP

10
INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-W0-0088

Lab Code: CHEMED Case No.: 31180 SAS No.: SDG No.: ME01J9

ICP ID Number: Date: 10/14/02

Flame AA ID Number: CV

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	0.2	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:
CV: LEEMAN PS200 HG ANALYZER
LEEMAN HG ANALYZER

10
INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-W0-0088

Lab Code: CHEMED Case No.: 31180 SAS No.: SDG No.: ME01J9

ICP ID Number: Date: 10/17/02

Flame AA ID Number: CV2

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	0.2	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:
CV2: LEMAN HYDRA AA- MERCURY ANALYZER

U.S. EPA - CLP

10
INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-W0-0088

Lab Code: CHEMED Case No.: 31180 SAS No.: SDG No.: ME01J9

ICP ID Number: Date: 10/16/02

Flame AA ID Number: CN

Furnace AA ID Number:

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200		NR
Antimony			60		NR
Arsenic			10		NR
Barium			200		NR
Beryllium			5		NR
Cadmium			5		NR
Calcium			5000		NR
Chromium			10		NR
Cobalt			50		NR
Copper			25		NR
Iron			100		NR
Lead			3		NR
Magnesium			5000		NR
Manganese			15		NR
Mercury			0.2		NR
Nickel			40		NR
Potassium			5000		NR
Selenium			5		NR
Silver			10		NR
Sodium			5000		NR
Thallium			10		NR
Vanadium			50		NR
Zinc			20		NR
Cyanide	578.00		10	1.1	CA

Comments:
CN: SPECTRO PHOTO METER GBC UV

DATE: December 5, 2002

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

Attn: Bob Casper

SITE NAME: Dixon Municipal Landfill

CASE NO.	LAB	NO. OF SAMPLES	SDG	MATRIX
31180	Clayton	20	E01H0	Water/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
DEC 11 2002
DATA COLLECTORS

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

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V
SUPERFUND DIVISION

DATE: _____

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

Received for Review on December 2, 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: Dixon Municipal Landfill (IL)

CASE NUMBER: 31180 SDG NUMBER: E01H0

Number and Type of Samples: 13 Soils and 7 Waters (VOAs)

Sample Numbers: E01H0 - E01H9, E01J0, E01J1, E01J3, E01J6, E01J9, E01K3, E01K5 - E01K8

Laboratory: Clayton Hrs. for Review: _____

Following are our findings:

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

Case Number : 31180 SDG Number: E01H0
S: Name: DIXON MUNICIPAL LANDFILL (IL) Laboratory: CLAYTON

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

Thirteen (13) soil samples *and seven (7) water* samples, numbered *E01H0* through *E01H9, E01J0, E01J1, E01J3, E01J6, E01J9, E01K3* and *E01K5* through *E01K8,* were collected *November 12 - 14, 2002*. The lab received the samples *November 14 - 15, 2002* in good condition. All samples were analyzed for only the volatile list of organic analytes. All were analyzed according to CLP SOW *OLM04.2* 5/99.

Case Number : 31180 SDG Number: E01H0
Site Name: DIXON MUNICIPAL LANDFILL (IL) Laboratory: CLAYTON

1. HOLDING TIME

DC-12 The following volatile samples are not fully qualified for technical holding time due to missing information. Manual review of the data is required.

E01K3, E01K3MS, E01K3MSD

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 corresponding initial calibration has percent relative standard deviation (%RSD) outside primary criteria. Hits are qualified "J" and non-detects are flagged "UJ".

Acetone, Methyl Acetate
E01H0, E01H1, E01H2, E01H3, E01H3MS, E01H3MSD, E01H4, E01H5, E01H6, E01H7, E01H8, E01H9, E01J0, E01J1, E01J3, VBLKBD, VBLKBE, VHBLKBA

DC-8 The following volatile samples are associated with a continuing calibration percent difference (%D) outside primary criteria. Hits are qualified "J" and non-detects are qualified "UJ".

Dichlorodifluoromethane
E01H0, E01H1, E01H2, E01H3, E01H3MS, E01H3MSD, E01H5, E01H6, E01H8, E01H9, E01J0, E01J6, E01J9, E01K3, E01K3MS, E01K3MSD, E01K5, E01K6, E01K7, E01K8, VBLKBD, VBLKJV

Chloromethane, Vinyl Chloride
E01H4, E01H7, E01J1, E01J3, VBLKBE, VHBLKBA

Chloroethane, Trichlorofluoromethane, 1,1-Dichloroethene, 1,1,2-Trichloro-1,2,2-trifluoroethane, Carbon Disulfide
E01J6, E01J9, E01K3, E01K3MS, E01K3MSD, E01K5, E01K6, E01K7, E01K8, VBLKJV

Acetone, Methyl Acetate, 2-Hexanone, 1,2-Dibromo-3-chloropropane
E01H0, E01H1, E01H2, E01H3, E01H3MS, E01H3MSD, E01H5, E01H6, E01H8, E01H9, E01J0, VBLKBD

4. BLANKS

DC-5 The following volatile samples have analyte concentrations reported above the CRQL and les

Case Number : 31180 SDG Number: E01H0
S: Name: DIXON MUNICIPAL LANDFILL (IL) Laboratory: CLAYTON

than or equal to five times (5X) the associated method blank concentration. Hits are qualified "U" and non-detects are not flagged.

Carbon Disulfide
E01H2

DC-6 The following volatile samples have analyte concentrations reported above the CRQL and less than or equal to ten times (10X) the associated method blank concentration. Hits are qualified "U" and non-detects are not flagged.

Acetone
E01H0, E01H1, E01H2, E01H3, E01H3MS, E01H3MSD, E01H4, E01H5, E01H6, E01H7, E01H9, E01J0, E01J1, E01J3

2-Butanone
E01H0, E01H1, E01H2, E01H5, E01H6, E01H8, E01H9, E01J0

DC-12 The following volatile samples have analyte concentrations reported below the CRQL and less than or equal to five times (5X) the associated method blank concentration. Reported sample concentrations have been elevated to the CRQL. Hits are qualified "U" and non-detects are not flagged.

Chloromethane
E01H0, E01H1, E01H2, E01H3, E01H3MS, E01H3MSD, E01H5, E01H6, E01H8, E01H9

Carbon Disulfide
E01H0, E01H1, E01H3, E01H3MS, E01H3MSD, E01H5, E01H8, E01H9

Methyl Acetate
E01H0, E01H1, E01H2, E01H4, E01H5, E01H6, E01H8, E01J0, E01J1, E01J3

2-Hexanone
E01H0, E01H3, E01H3MSD, E01H5

1,2-Dibromo-3-chloropropane
E01H2

DC-13 The following volatile samples have analyte concentrations reported below the CRQL and less than or equal to ten times (10X) the associated method blank concentration. Reported sample concentrations have been elevated to the CRQL. Hits are qualified "U" and non-detects are not flagged.

Case Number : 31180 SDG Number: E01H0
Site Name: DIXON MUNICIPAL LANDFILL (IL) Laboratory: CLAYTON

Acetone
E01J9, E01K3MS, E01K3MSD, E01K7, E01K8

Methylene Chloride
E01H0, E01H1, E01H3, E01H3MS, E01H3MSD, E01H4, E01H5, E01H6, E01H7, E01H8, E01H9, E01J3

2-Butanone
E01H3, E01H3MS, E01H3MSD, E01H7, E01J1

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

Acetone
E01H0, E01H1, E01H2, E01H3, E01H3MS, E01H3MSD, E01H4, E01H5, E01H6, E01H7, E01H8, E01H9, E01J0, E01J1, E01J3, E01J9, E01K3MS, E01K3MSD, E01K7, E01K8

Methyl Acetate
E01H0, E01H1, E01H2, E01H4, E01H5, E01H6, E01H8, E01J0, E01J1, E01J3

Methylene Chloride
E01H0, E01H1, E01H3, E01H3MS, E01H3MSD, E01H4, E01H5, E01H6, E01H7, E01H8, E01H9, E01J3

5. SYSTEM MONITORING COMPOUND AND SURROGATE RECOVERY

No defects found.

6. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

DC-2 The relative percent difference (RPD) between the following volatile matrix spike and matrix spike duplicate recoveries is outside criteria. Results for the outlier compounds in the unspiked sample, E01K3, are estimated, "J" and non-detects are flagged "UJ".

E01K3MS, E01K3MSD
1,1-Dichloroethene

7. FIELD BLANK AND FIELD DUPLICATE

Sample *E01J6* is a trip blank. Sample *E01J9* is a field blank. Sample *E01H1* is a field duplicate of Sample *E01H0*. Sample *E01J1* is a field duplicate of Sample *E01J0*. Sample *E01K6* is a field duplicate of Sample *E01K5*. Results are not qualified based upon the results of the field blank or

Case Number : 31180 SDG Number: E01H0
S. Name: DIXON MUNICIPAL LANDFILL (IL) Laboratory: CLAYTON

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 volatile samples have analyte concentrations below the quantitation limit (CRQL). All results below the CRQL are qualified "J".

E01H0
Cyclohexane, Benzene, Methylcyclohexane, Toluene, Chlorobenzene, Ethylbenzene, Xylenes (total)

E01H1, E01H2, E01H5, E01H7
Cyclohexane, Benzene, Methylcyclohexane, Toluene, Ethylbenzene, Xylenes (total)

E01H3
Cyclohexane, Methylcyclohexane, Toluene, Ethylbenzene, Xylenes (total)

E01H3MS, E01H3MSD
Cyclohexane, Methylcyclohexane, Ethylbenzene, Xylenes (total)

E01H4
Carbon Disulfide, Cyclohexane, Methylcyclohexane, Toluene, Ethylbenzene, Xylenes (total)

E01H8
Methylcyclohexane, Toluene

E01H9
Benzene, Isopropylbenzene

E01J0
Cyclohexane, Benzene, Methylcyclohexane, Toluene

E01J1
Carbon Disulfide, Cyclohexane, Methylcyclohexane, Toluene

Case Number : 31180 SDG Number: E01H0
Site Name: DIXON MUNICIPAL LANDFILL (IL) Laboratory: CLAYTON

E01J3
Chloromethane

VBLKBD
Chloromethane, Carbon Disulfide, Methyl Acetate, Methylene Chloride, 2-Butanone, 4-Methyl-2-pentanone, 2-Hexanone, 1,2-Dibromo-3-chloropropane, 1,2,4-Trichlorobenzene

VBLKBE
Methyl Acetate, Methylene Chloride, 2-Butanone, 2-Hexanone

VBLKJV
Acetone

VHBLKBA
Acetone, Methyl Acetate, Methylene Chloride

DC-3 Adjusted CRQL values of the following volatile samples are less than the contract specified CRQLs. The contract specified CRQL values are used by CADRE during data validation and reported for non-detected compounds.

E01J3

11. SYSTEM PERFORMANCE

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

12. ADDITIONAL INFORMATION

DC-2 Verification of non-detected results and assignment of "U" qualifier when the reported value is less than CRQL.

E01H0, E01H1, E01H2, E01H3, E01H3MS, E01H3MSD, E01H4, E01H5, E01H6, E01H7, E01H8, E01H9, E01J0, E01J1, E01J3, E01J6, E01J9, E01K3, E01K3MS, E01K3MSD, E01K5, E01K6, E01K7, E01K8, VBLKBD, VBLKBE, VBLKJV, VHBLKBA

Case Number : 31180 SDG Number: E01H0
S e Name: DIXON MUNICIPAL LANDFILL (IL) Laboratory: CLAYTON

Data Review Results
Lab ID: CLAYTN Case No.: 31180 Method: OLM04.2 Flag :R5FLAG
File Name: E01H0 SDG No.: E01H0 Criteria: OLM04.2 Defects: R5DEFECT

Data Review Criteria Set Options:

Detection Limit CADRE association rules X
PEST pct D expanded criteria
Use MDL IPC/Tune
Expanded criteria
Holding Time
Region 3 PAH option System Performance
Region 3 PCB option Use initial PEM pct resolution X
Expanded criteria X Use continuing PEM pct resolution
Inorganic missing pH option
CRDL/CRQL Standards
Calibrations Region 2 validation rules
RRF expanded criteria Region 3 validation rules
VOA/BNA PctD expanded criteria
VOA/BNA PctRSD expanded criteria LCS
Use mean RRF Pct rec expanded criteria
Use VOA/BNA dual purpose standard option X
Use initial INDA/INDB pct resolution X Duplicates
Use continuing INDA/INDB pct resolution RPD and AD expanded criteria
Use PEST low concentration option
PEST low concentration PctRSD expanded criteria Furnace AA QC
Use DMC/SMC/Surrogate option X Pct R expanded upper criteria
Use INORG extreme high pct recovery Corr coef expanded criteria
Matrix Spikes Blanks
Use PEST low concentration rules Raise to detection limit X
Use VOA storage/inst blanks X
DMC/SMC/Surrogates Use low concentration rules
Region 3 validation rules
Check dilution factor X Field QC
Use advisory surrogates Combine method/field blanks
Use low concentration rules CRDL contamination criteria

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 #: 31180 SDG : E01H0
Site DIXON MUNICIPAL LANDFILL
Lab. CLAYTN
viewer
Date

Number of Soil Samples : 13
Number of Water Samples : 7

Sample Number	E01H0		E01H1		E01H2		E01H3		E01H3MS	
Sampling Location	X201		X201 D		X202		X203		X203	
Matrix	Soil		Soil		Soil		Soil		Soil	
Units	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled	11/12/2002		11/12/2002		11/12/2002		11/12/2002		11/12/2002	
Time Sampled	11:10		11:10		12:10		12:45		12:45	
%Moisture	25		25		25		22		22	
pH	0		0		0		0		0	
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	13	UJ	13	UJ	13	UJ	13	UJ	13	UJ
Chloromethane	13	UJ	13	UJ	13	UJ	13	UJ	13	UJ
Vinyl Chloride	13	U	13	U	13	U	13	U	13	U
Bromomethane	13	U	13	U	13	U	13	U	13	U
Chloroethane	13	U	13	U	13	U	13	U	13	U
Trichlorofluoromethane	13	U	13	U	13	U	13	U	13	U
1,1-Dichloroethene	13	U	13	U	13	U	13	U	54	
1,1,2-Trichloro-1,2,2-trifluoroethane	13	U	13	U	13	U	13	U	13	U
Acetone	67	UJ	61	UJ	90	UJ	46	UJ	55	UJ
Carbon Disulfide	13	UJ	13	UJ	13	U	13	UJ	13	UJ
Methyl Acetate	13	UJ	13	UJ	13	UJ	13	UJ	13	UJ
Methylene Chloride	13	UJ	13	UJ	13	U	13	UJ	13	UJ
trans-1,2-Dichloroethene	13	U	13	U	13	U	13	U	13	U
Methyl tert-Butyl Ether	13	U	13	U	13	U	13	U	13	U
1-Dichloroethane	13	U	13	U	13	U	13	U	13	U
cis-1,2-Dichloroethene	13	U	13	U	13	U	13	U	13	U
2-Butanone	15	U	14	U	18	U	13	UJ	13	UJ
Chloroform	13	U	13	U	13	U	13	U	13	U
1,1,1-Trichloroethane	13	U	13	U	13	U	13	U	13	U
Cyclohexane	7	J	4	J	6	J	2	J	2	J
Carbon Tetrachloride	13	U	13	U	13	U	13	U	13	U
Benzene	4	J	2	J	3	J	13	U	60	
1,2-Dichloroethane	13	U	13	U	13	U	13	U	13	U
Trichloroethene	13	U	13	U	13	U	13	U	55	
Methylcyclohexane	12	J	6	J	10	J	3	J	4	J
1,2-Dichloropropane	13	U	13	U	13	U	13	U	13	U
Bromodichloromethane	13	U	13	U	13	U	13	U	13	U
cis-1,3-Dichloropropene	13	U	13	U	13	U	13	U	13	U
4-Methyl-2-pentanone	13	U	13	U	13	U	13	U	13	U
Toluene	7	J	4	J	5	J	4	J	65	
trans-1,3-Dichloropropene	13	U	13	U	13	U	13	U	13	U
1,1,2-Trichloroethane	13	U	13	U	13	U	13	U	13	U
Tetrachloroethene	13	U	13	U	13	U	13	U	13	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 #: 31180 SDG : E01H0
Site : DIXON MUNICIPAL LANDFILL
Lab. : CLAYTN
Reviewer
Date

Sample Number	E01H0		E01H1		E01H2		E01H3		E01H3MS	
Sampling Location :	X201		X201 D		X202		X203		X203	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	11/12/2002		11/12/2002		11/12/2002		11/12/2002		11/12/2002	
Time Sampled :	11:10		11:10		12:10		12:45		12:45	
%Moisture :	25		25		25		22		22	
pH :	0		0		0		0		0	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2-Hexanone	13	UJ	13	UJ	13	UJ	13	UJ	13	UJ
Dibromochloromethane	13	U	13	U	13	U	13	U	13	U
1,2-Dibromoethane	13	U	13	U	13	U	13	U	13	U
Chlorobenzene	2	J	13	U	13	U	13	U	59	
Ethylbenzene	2	J	1	J	2	J	3	J	3	J
Xylenes (total)	2	J	2	J	2	J	2	J	2	J
Styrene	13	U	13	U	13	U	13	U	13	U
Bromoform	13	U	13	U	13	U	13	U	13	U
Isopropylbenzene	13	U	13	U	13	U	13	U	13	U
1,1,2,2-Tetrachloroethane	13	U	13	U	13	U	13	U	13	U
1,3-Dichlorobenzene	13	U	13	U	13	U	13	U	13	U
1,4-Dichlorobenzene	13	U	13	U	13	U	13	U	13	U
1,2-Dichlorobenzene	13	U	13	U	13	U	13	U	13	U
1,2-Dibromo-3-chloropropane	13	UJ	13	UJ	13	UJ	13	UJ	13	UJ
1,2,4-Trichlorobenzene	13	U	13	U	13	U	13	U	13	U

Analytical Results (Qualified Data)

Case #. 31180 SDG : E01H0
Site DIXON MUNICIPAL LANDFILL
Lab CLAYTN
Reviewer
Date

Sample Number :	E01H3MSD		E01H4		E01H5		E01H6		E01H7	
Sampling Location :	X203		X204		X205		X206		X207	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled	11/12/2002		11/12/2002		11/12/2002		11/12/2002		11/12/2002	
Time Sampled :	12:45		13:35		15:35		14:20		15:10	
%Moisture	22		19		15		11		8	
pH	0		0		0		0		0	
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	13	UJ	12	U	12	UJ	11	UJ	11	U
Chloromethane	13	UJ	12	UJ	12	UJ	11	UJ	11	UJ
Vinyl Chloride	13	U	12	UJ	12	U	11	U	11	UJ
Bromomethane	13	U	12	U	12	U	11	U	11	U
Chloroethane	13	U	12	U	12	U	11	U	11	U
Trichlorofluoromethane	13	U	12	U	12	U	11	U	11	U
1,1-Dichloroethene	52		12	U	12	U	11	U	11	U
1,1,2-Trichloro-1,2,2-trifluoroethane	13	U	12	U	12	U	11	U	11	U
Acetone	56	UJ	18	UJ	71	UJ	79	UJ	19	UJ
Carbon Disulfide	13	UJ	10	J	12	UJ	11	U	11	U
Methyl Acetate	13	UJ	12	UJ	12	UJ	11	UJ	11	UJ
Methylene Chloride	13	UJ	12	UJ	12	UJ	11	UJ	11	UJ
trans-1,2-Dichloroethene	13	U	12	U	12	U	11	U	11	U
Methyl tert-Butyl Ether	13	U	12	U	12	U	11	U	11	U
1,1-Dichloroethane	13	U	12	U	12	U	11	U	11	U
cis-1,2-Dichloroethene	13	U	12	U	12	U	11	U	11	U
2-Butanone	13	UJ	12	U	13	U	11	U	11	UJ
Chloroform	13	U	12	U	12	U	11	U	11	U
1,1,1-Trichloroethane	13	U	12	U	12	U	11	U	11	U
Cyclohexane	4	J	2	J	3	J	11	U	5	J
Carbon Tetrachloride	13	U	12	U	12	U	11	U	11	U
Benzene	61		12	U	2	J	11	U	2	J
1,2-Dichloroethane	13	U	12	U	12	U	11	U	11	U
Trichloroethene	56		12	U	12	U	11	U	11	U
Methylcyclohexane	8	J	2	J	6	J	11	U	7	J
1,2-Dichloropropane	13	U	12	U	12	U	11	U	11	U
Bromodichloromethane	13	U	12	U	12	U	11	U	11	U
cis-1,3-Dichloropropene	13	U	12	U	12	U	11	U	11	U
4-Methyl-2-pentanone	13	U	12	U	12	U	11	U	11	U
Toluene	66		2	J	8	J	11	U	6	J
trans-1,3-Dichloropropene	13	U	12	U	12	U	11	U	11	U
1,1,2-Trichloroethane	13	U	12	U	12	U	11	U	11	U
Tetrachloroethene	13	U	12	U	12	U	11	U	11	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 #. 31180 SDG : E01H0
Site : DIXON MUNICIPAL LANDFILL
Lab. CLAYTN
Reviewer :
Date :

Sample Number	E01H3MSD		E01H4		E01H5		E01H6		E01H7	
Sampling Location :	X203		X204		X205		X206		X207	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	11/12/2002		11/12/2002		11/12/2002		11/12/2002		11/12/2002	
Time Sampled :	12:45		13:35		15:35		14:20		15:10	
%Moisture :	22		19		15		11		8	
pH :	0		0		0		0		0	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2-Hexanone	13	UJ	12	U	12	UJ	11	UJ	11	U
Dibromochloromethane	13	U	12	U	12	U	11	U	11	U
1,2-Dibromoethane	13	U	12	U	12	U	11	U	11	U
Chlorobenzene	56		12	U	12	U	11	U	11	U
Ethylbenzene	4	J	1	J	5	J	11	U	3	J
Xylenes (total)	4	J	2	J	5	J	11	U	4	J
Styrene	13	U	12	U	12	U	11	U	11	U
Bromoform	13	U	12	U	12	U	11	U	11	U
Isopropylbenzene	13	U	12	U	12	U	11	U	11	U
1,1,2,2-Tetrachloroethane	13	U	12	U	12	U	11	U	11	U
1,3-Dichlorobenzene	13	U	12	U	12	U	11	U	11	U
1,4-Dichlorobenzene	13	U	12	U	12	U	11	U	11	U
1,2-Dichlorobenzene	13	U	12	U	12	U	11	U	11	U
1,2-Dibromo-3-chloropropane	13	UJ	12	U	12	UJ	11	UJ	11	U
1,2,4-Trichlorobenzene	13	U	12	U	12	U	11	U	11	U

Analytical Results (Qualified Data)

Case #: 31180 SDG : E01H0
Site DIXON MUNICIPAL LANDFILL
Lab CLAYTN
Viewer
Date

Sample Number :	E01H8		E01H9		E01J0		E01J1		E01J3	
Sampling Location :	X208		X101		X104		X104 D		X103	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	11/12/2002		11/13/2002		11/13/2002		11/13/2002		11/13/2002	
Time Sampled :	16:30		13:10		14:40		14:40		16:40	
%Moisture :	44		19		19		18		13	
pH :	0		0		0		0		0	
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	18	UJ	11	UJ	11	UJ	10	U	10	U
Chloromethane	18	UJ	11	UJ	11	U	10	UJ	1	J
Vinyl Chloride	18	U	11	U	11	U	10	UJ	10	UJ
Bromomethane	18	U	11	U	11	U	10	U	10	U
Chloroethane	18	U	11	U	11	U	10	U	10	U
Trichlorofluoromethane	18	U	11	U	11	U	10	U	10	U
1,1-Dichloroethene	18	U	11	U	11	U	10	U	10	U
1,1,2-Trichloro-1,2,2-trifluoroethane	18	U	11	U	11	U	10	U	10	U
Acetone	220	J	110	UJ	71	UJ	21	UJ	10	UJ
Carbon Disulfide	18	UJ	11	UJ	11	U	1	J	10	U
Methyl Acetate	18	UJ	11	UJ	11	UJ	10	UJ	10	UJ
Methylene Chloride	18	UJ	11	UJ	11	U	10	U	10	UJ
trans-1,2-Dichloroethene	18	U	11	U	11	U	10	U	10	U
Methyl tert-Butyl Ether	18	U	11	U	11	U	10	U	10	U
1-Dichloroethane	18	U	11	U	11	U	10	U	10	U
cis-1,2-Dichloroethene	18	U	11	U	11	U	10	U	10	U
2-Butanone	25	U	15	U	13	U	10	UJ	10	U
Chloroform	18	U	11	U	11	U	10	U	10	U
1,1,1-Trichloroethane	18	U	11	U	11	U	10	U	10	U
Cyclohexane	18	U	19		5	J	2	J	10	U
Carbon Tetrachloride	18	U	11	U	11	U	10	U	10	U
Benzene	18	U	6	J	2	J	10	U	10	U
1,2-Dichloroethane	18	U	11	U	11	U	10	U	10	U
Trichloroethene	18	U	11	U	11	U	10	U	10	U
Methylcyclohexane	2	J	29		6	J	3	J	10	U
1,2-Dichloropropane	18	U	11	U	11	U	10	U	10	U
Bromodichloromethane	18	U	11	U	11	U	10	U	10	U
cis-1,3-Dichloropropene	18	U	11	U	11	U	10	U	10	U
4-Methyl-2-pentanone	18	U	11	U	11	U	10	U	10	U
Toluene	6	J	19		1	J	2	J	10	U
trans-1,3-Dichloropropene	18	U	11	U	11	U	10	U	10	U
1,1,2-Trichloroethane	18	U	11	U	11	U	10	U	10	U
Tetrachloroethene	18	U	11	U	11	U	10	U	10	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 # 31180 SDG : E01H0
Site DIXON MUNICIPAL LANDFILL
Lab : CLAYTN
Reviewer :
Date :

Sample Number :	E01H8		E01H9		E01J0		E01J1		E01J3	
Sampling Location :	X208		X101		X104		X104 D		X103	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	11/12/2002		11/13/2002		11/13/2002		11/13/2002		11/13/2002	
Time Sampled :	16:30		13:10		14:40		14:40		16:40	
%Moisture :	44		19		19		18		13	
pH :	0		0		0		0		0	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2-Hexanone	18	UJ	11	UJ	11	UJ	10	U	10	U
Dibromochloromethane	18	U	11	U	11	U	10	U	10	U
1,2-Dibromoethane	18	U	11	U	11	U	10	U	10	U
Chlorobenzene	18	U	11	U	11	U	10	U	10	U
Ethylbenzene	18	U	14		11	U	10	U	10	U
Xylenes (total)	18	U	14		11	U	10	U	10	U
Styrene	18	U	11	U	11	U	10	U	10	U
Bromoform	18	U	11	U	11	U	10	U	10	U
Isopropylbenzene	18	U	1	J	11	U	10	U	10	U
1,1,2,2-Tetrachloroethane	18	U	11	U	11	U	10	U	10	U
1,3-Dichlorobenzene	18	U	11	U	11	U	10	U	10	U
1,4-Dichlorobenzene	18	U	11	U	11	U	10	U	10	U
1,2-Dichlorobenzene	18	U	11	U	11	U	10	U	10	U
1,2-Dibromo-3-chloropropane	18	UJ	11	UJ	11	UJ	10	U	10	U
1,2,4-Trichlorobenzene	18	U	11	U	11	U	10	U	10	U

Analytical Results (Qualified Data)

Case #: 31180 SDG : E01H0
Site : DIXON MUNICIPAL LANDFILL
Lab. CLAYTN
Viewer :
Date :

Sample Number :	VBLKBD		VBLKBE		VHBLKBA					
Sampling Location :										
Matrix :	Soil		Soil		Soil					
Units :	ug/Kg		ug/Kg		ug/Kg					
Date Sampled :										
Time Sampled :										
%Moisture :	N/A		N/A		0					
pH :	0		0		0					
Dilution Factor :	1.0		1.0		1.0					
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	10	UJ	10	U	10	U				
Chloromethane	2	J	10	UJ	10	UJ				
Vinyl Chloride	10	U	10	UJ	10	UJ				
Bromomethane	10	U	10	U	10	U				
Chloroethane	10	U	10	U	10	U				
Trichlorofluoromethane	10	U	10	U	10	U				
1,1-Dichloroethene	10	U	10	U	10	U				
1,1,2-Trichloro-1,2,2-trifluoroethane	10	U	10	U	10	U				
Acetone	11	J	12	J	9	J				
Carbon Disulfide	3	J	10	U	10	U				
Methyl Acetate	9	J	6	J	2	J				
Methylene Chloride	6	J	2	J	2	J				
trans-1,2-Dichloroethene	10	U	10	U	10	U				
Methyl tert-Butyl Ether	10	U	10	U	10	U				
1-Dichloroethane	10	U	10	U	10	U				
cis-1,2-Dichloroethene	10	U	10	U	10	U				
2-Butanone	3	J	1	J	10	U				
Chloroform	10	U	10	U	10	U				
1,1,1-Trichloroethane	10	U	10	U	10	U				
Cyclohexane	10	U	10	U	10	U				
Carbon Tetrachloride	10	U	10	U	10	U				
Benzene	10	U	10	U	10	U				
1,2-Dichloroethane	10	U	10	U	10	U				
Trichloroethene	10	U	10	U	10	U				
Methylcyclohexane	10	U	10	U	10	U				
1,2-Dichloropropane	10	U	10	U	10	U				
Bromodichloromethane	10	U	10	U	10	U				
cis-1,3-Dichloropropene	10	U	10	U	10	U				
4-Methyl-2-pentanone	2	J	10	U	10	U				
Toluene	10	U	10	U	10	U				
trans-1,3-Dichloropropene	10	U	10	U	10	U				
1,1,2-Trichloroethane	10	U	10	U	10	U				
Tetrachloroethene	10	U	10	U	10	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 #: 31180 SDG E01H0
Site . DIXON MUNICIPAL LANDFILL
Lab. CLAYTN
Reviewer
Date .

Sample Number :	VBLKBD		VBLKBE		VHBLKBA					
Sampling Location :										
Matrix :	Soil		Soil		Soil					
Units :	ug/Kg		ug/Kg		ug/Kg					
Date Sampled :										
Time Sampled :										
%Moisture :	N/A		N/A		0					
pH :	0		0		0					
Dilution Factor :	1.0		1.0		1.0					
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2-Hexanone	5	J	2	J	10	U				
Dibromochloromethane	10	U	10	U	10	U				
1,2-Dibromoethane	10	U	10	U	10	U				
Chlorobenzene	10	U	10	U	10	U				
Ethylbenzene	10	U	10	U	10	U				
Xylenes (total)	10	U	10	U	10	U				
Styrene	10	U	10	U	10	U				
Bromoform	10	U	10	U	10	U				
Isopropylbenzene	10	U	10	U	10	U				
1,1,2,2-Tetrachloroethane	10	U	10	U	10	U				
1,3-Dichlorobenzene	10	U	10	U	10	U				
1,4-Dichlorobenzene	10	U	10	U	10	U				
1,2-Dichlorobenzene	10	U	10	U	10	U				
1,2-Dibromo-3-chloropropane	4	J	10	U	10	U				
1,2,4-Trichlorobenzene	1	J	10	U	10	U				

Analytical Results (Qualified Data)

Case #: 31180 SDG : E01H0
Site : DIXON MUNICIPAL LANDFILL
Lab : CLAYTN
Viewer :
Date

Sample Number :	E01J6		E01J9		E01K3		E01K3MS		E01K3MSD	
Sampling Location :	TRIP BLANK		G106 FIELD BLANK							
Matrix :	Water		Water		Water		Water		Water	
Units	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	11/14/2002		11/14/2002							
Time Sampled	11:45		11:30							
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH	0		0		0		0		0	
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	10	UJ	10	UJ	10	UJ	10	UJ	10	UJ
Chloromethane	10	U	10	U	10	U	10	U	10	U
Vinyl Chloride	10	U	10	U	10	U	10	U	10	U
Bromomethane	10	U	10	U	10	U	10	U	10	U
Chloroethane	10	UJ	10	UJ	10	UJ	10	UJ	10	UJ
Trichlorofluoromethane	10	UJ	10	UJ	10	UJ	10	UJ	10	UJ
1,1-Dichloroethene	10	UJ	10	UJ	10	UJ	51	J	59	J
1,1,2-Trichloro-1,2,2-trifluoroethane	10	UJ	10	UJ	10	UJ	10	UJ	10	UJ
Acetone	10	U	10	UJ	10	U	10	UJ	10	UJ
Carbon Disulfide	10	UJ	10	UJ	10	UJ	10	UJ	10	UJ
Methyl Acetate	10	U	10	U	10	U	10	U	10	U
Methylene Chloride	10	U	10	U	10	U	10	U	10	U
trans-1,2-Dichloroethene	10	U	10	U	10	U	10	U	10	U
Methyl tert-Butyl Ether	10	U	10	U	10	U	10	U	10	U
1-Dichloroethane	10	U	10	U	10	U	10	U	10	U
cis-1,2-Dichloroethene	10	U	10	U	10	U	10	U	10	U
2-Butanone	10	U	10	U	10	U	10	U	10	U
Chloroform	10	U	10	U	10	U	10	U	10	U
1,1,1-Trichloroethane	10	U	10	U	10	U	10	U	10	U
Cyclohexane	10	U	10	U	10	U	10	U	10	U
Carbon Tetrachloride	10	U	10	U	10	U	10	U	10	U
Benzene	10	U	10	U	10	U	54		54	
1,2-Dichloroethane	10	U	10	U	10	U	10	U	10	U
Trichloroethene	10	U	10	U	10	U	45		46	
Methylcyclohexane	10	U	10	U	10	U	10	U	10	U
1,2-Dichloropropane	10	U	10	U	10	U	10	U	10	U
Bromodichloromethane	10	U	10	U	10	U	10	U	10	U
cis-1,3-Dichloropropene	10	U	10	U	10	U	10	U	10	U
4-Methyl-2-pentanone	10	U	10	U	10	U	10	U	10	U
Toluene	10	U	10	U	10	U	51		54	
trans-1,3-Dichloropropene	10	U	10	U	10	U	10	U	10	U
1,1,2-Trichloroethane	10	U	10	U	10	U	10	U	10	U
Tetrachloroethene	10	U	10	U	10	U	10	U	10	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 # 31180 SDG : E01H0
Site DIXON MUNICIPAL LANDFILL
Lab. CLAYTN
Reviewer
Date

Sample Number :	E01J6		E01J9		E01K3		E01K3MS		E01K3MSD	
Sampling Location :	TRIP BLANK		G106 FIELD BLANK							
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	11/14/2002		11/14/2002							
Time Sampled :	11:45		11:30							
%Moisture	N/A		N/A		N/A		N/A		N/A	
pH :	0		0		0		0		0	
Dilution Factor	1.0		1.0		1.0		1.0		1.0	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2-Hexanone	10	U	10	U	10	U	10	U	10	U
Dibromochloromethane	10	U	10	U	10	U	10	U	10	U
1,2-Dibromoethane	10	U	10	U	10	U	10	U	10	U
Chlorobenzene	10	U	10	U	10	U	53		54	
Ethylbenzene	10	U	10	U	10	U	10	U	10	U
Xylenes (total)	10	U	10	U	10	U	10	U	10	U
Styrene	10	U	10	U	10	U	10	U	10	U
Bromoform	10	U	10	U	10	U	10	U	10	U
Isopropylbenzene	10	U	10	U	10	U	10	U	10	U
1,1,2 2-Tetrachloroethane	10	U	10	U	10	U	10	U	10	U
1,3-Dichlorobenzene	10	U	10	U	10	U	10	U	10	U
1,4-Dichlorobenzene	10	U	10	U	10	U	10	U	10	U
1,2-Dichlorobenzene	10	U	10	U	10	U	10	U	10	U
1,2-Dibromo-3-chloropropane	10	U	10	U	10	U	10	U	10	U
1,2,4-Trichlorobenzene	10	U	10	U	10	U	10	U	10	U

Analytical Results (Qualified Data)

Case # 31180 SDG : E01H0
Site DIXON MUNICIPAL LANDFILL
Lab CLAYTN
Viewer :
Date

Sample Number	E01K5		E01K6		E01K7		E01K8		VBLKJV	
Sampling Location :	G103		G103 D		G104		G102			
Matrix	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	11/14/2002		11/14/2002		11/13/2002		11/14/2002			
Time Sampled	09:32		09:32		15:30		11:50			
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :	0		0		0		0		0	
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	10	UJ	10	UJ	10	UJ	10	UJ	10	UJ
Chloromethane	10	U	10	U	10	U	10	U	10	U
Vinyl Chloride	10	U	10	U	10	U	10	U	10	U
Bromomethane	10	U	10	U	10	U	10	U	10	U
Chloroethane	10	UJ	10	UJ	10	UJ	10	UJ	10	UJ
Trichlorofluoromethane	10	UJ	10	UJ	10	UJ	10	UJ	10	UJ
1,1-Dichloroethene	10	UJ	10	UJ	10	UJ	10	UJ	10	UJ
1,1,2-Trichloro-1,2,2-trifluoroethane	10	UJ	10	UJ	10	UJ	10	UJ	10	UJ
Acetone	10	U	10	U	10	UJ	10	UJ	1	J
Carbon Disulfide	10	UJ	10	UJ	10	UJ	10	UJ	10	UJ
Methyl Acetate	10	U	10	U	10	U	10	U	10	U
Methylene Chloride	10	U	10	U	10	U	10	U	10	U
trans-1,2-Dichloroethene	10	U	10	U	10	U	10	U	10	U
Methyl tert-Butyl Ether	10	U	10	U	10	U	10	U	10	U
1-Dichloroethane	10	U	10	U	10	U	10	U	10	U
cis-1,2-Dichloroethene	10	U	10	U	10	U	10	U	10	U
2-Butanone	10	U	10	U	10	U	10	U	10	U
Chloroform	10	U	10	U	10	U	10	U	10	U
1,1,1-Trichloroethane	10	U	10	U	10	U	10	U	10	U
Cyclohexane	10	U	10	U	10	U	10	U	10	U
Carbon Tetrachloride	10	U	10	U	10	U	10	U	10	U
Benzene	10	U	10	U	10	U	10	U	10	U
1,2-Dichloroethane	10	U	10	U	10	U	10	U	10	U
Trichloroethene	10	U	10	U	10	U	10	U	10	U
Methylcyclohexane	10	U	10	U	10	U	10	U	10	U
1,2-Dichloropropane	10	U	10	U	10	U	10	U	10	U
Bromodichloromethane	10	U	10	U	10	U	10	U	10	U
cis-1,3-Dichloropropene	10	U	10	U	10	U	10	U	10	U
4-Methyl-2-pentanone	10	U	10	U	10	U	10	U	10	U
Toluene	10	U	10	U	10	U	10	U	10	U
trans-1,3-Dichloropropene	10	U	10	U	10	U	10	U	10	U
1,1,2-Trichloroethane	10	U	10	U	10	U	10	U	10	U
Tetrachloroethene	10	U	10	U	10	U	10	U	10	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 # 31180 SDG : E01H0
Site : DIXON MUNICIPAL LANDFILL
Lab : CLAYTN
Reviewer :
Date :

Sample Number :	E01K5		E01K6		E01K7		E01K8		VBLKJV	
Sampling Location :	G103		G103 D		G104		G102			
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	11/14/2002		11/14/2002		11/13/2002		11/14/2002			
Time Sampled :	09:32		09:32		15:30		11:50			
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :	0		0		0		0		0	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2-Hexanone	10	U	10	U	10	U	10	U	10	U
Dibromochloromethane	10	U	10	U	10	U	10	U	10	U
1,2-Dibromoethane	10	U	10	U	10	U	10	U	10	U
Chlorobenzene	10	U	10	U	10	U	10	U	10	U
Ethylbenzene	10	U	10	U	10	U	10	U	10	U
Xylenes (total)	10	U	10	U	10	U	10	U	10	U
Styrene	10	U	10	U	10	U	10	U	10	U
Bromoform	10	U	10	U	10	U	10	U	10	U
Isopropylbenzene	10	U	10	U	10	U	10	U	10	U
1,1,2,2-Tetrachloroethane	10	U	10	U	10	U	10	U	10	U
1,3-Dichlorobenzene	10	U	10	U	10	U	10	U	10	U
1,4-Dichlorobenzene	10	U	10	U	10	U	10	U	10	U
1,2-Dichlorobenzene	10	U	10	U	10	U	10	U	10	U
1,2-Dibromo-3-chloropropane	10	U	10	U	10	U	10	U	10	U
1,2,4-Trichlorobenzene	10	U	10	U	10	U	10	U	10	U

Regional Transmittal Form

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE:

SUBJECT: Review of Data
Received for Review on 12-2-02

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: Dixon Municipal LF (IL)

CASE NUMBER: 31772 SDG NUMBER: E01H0

Number and Type of Samples: 28 (Water/Soil)

Sample Numbers: E01H0-9 E01J0-1, E01J2, E01J6, E01J9, E01K2, E01K5-6

Laboratory: Chemtech Hrs for Review:

Following are our findings:

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

Sample Delivery Group (SDG)
Traffic Report (TR) Cover Sheet

SDG Number E01H0

Laboratory Name Clayton Group Services, Inc. Laboratory Code CLAYTN

Contract No. 68-W-99069 Case No. 31180

Analysis Price $ 539.00 SDG Turnaround 21 Day

EPA Sample Numbers in SDG (Listed in Alpha Numeric Order)

1)	E01H0	7)	E01H6	13)	E01J3	19)	E01K7
2)	E01H1	8)	E01H7	14)	E01J6	20)	E01K8
3)	E01H2	9)	E01H8	15)	E01J9	21)	
4)	E01H3*	10)	E01H9	16)	E01K3*	22)	
5)	E01H4	11)	E01J0	17)	E01K5	23)	
6)	E01H5	12)	E01J1	18)	E01K6	24)	

*MS/MSD

E01H0	E01K8
First Sample in SDG	Last Sample in SDG
11/14/02	11/15/02
First Sample Receipt Date	Last Sample Receipt Date

SDG closed 11/15/02

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 [illegible]

USEPA Contract Laboratory Program
Organic Traffic Report

Case No: 31180
DAS No:
SDG No: E1H0

L

Date Shipped: 11/14/02 Carrier Name: UPS Airbill: 1Z6J158922100218 96 Shipped to: Clayton Environmental Consultants, Inc 22315 Roethel Drive Novi MI 48375 (248) 344-1770	Date Received/Received by: 11/15 02 [illegible] Lab Contract No: [illegible] Unit Price: [illegible] Transfer To: Date Received/Received By: Lab Contract No: Price:	Sampler(Signature): Jerry Willman Relinquished By: Jerry Willman Relinquished By: Relinquished By:	Date / Time: 11/14/02 1720 Date / Time: Date / Time: 11/15/02 9:32
			Received By: Received By: Received By: [illegible]

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
E01J6	Ground Water/ Jerry Willman	L/G	VOA (21)	5-66718 (HCL), 5-66719 (HCL) (2)	Trip Blank	11/14/02 11:45		
E01J8	Soil/Sediment/ Jerry Willman	L/G	Dry Wt. (21), VOA (21)	5-66722 (HCL), 5-66723 (HCL), 5-66724 (HCL), 5-66726 (Ice Only) (4)	X102	11/14/02 10:55	ME01J8	
E01J9	Ground Water/ Jerry Willman	L/G	VOA (21)	5-66727 (HCL), 5-66728 (HCL) (2)	G106 Field Blank	11/14/02 11:30	ME01J9	
E01K5	Ground Water/ Jerry Willman	L/G	VOA (21)	5-66754 (HCL), 5-66755 (HCL) (2)	G103	11/14/02 9:32	ME01K5	
E01K6	Ground Water/ Jerry Willman	L/G	VOA (21)	5-66756 (HCL), 5-66757 (HCL) (2)	G103 D	11/14/02 9:32	ME01K6	
E01K7	Ground Water/ Jerry Willman	L/G	VOA (21)	5-66758 (HCL), 5-66759 (HCL) (2)	G104	11/13/02 15:30		
E01K8	Ground Water/ Jerry Willman	L/G	VOA (21)	5-66760 (HCL), 5-66761 (HCL) (2)	G102	11/14/02 11:50	ME01K8	
E01L3	Soil/Sediment/ Jerry Willman	L/G	Dry Wt. (21), VOA (21)	5-66221 (Ice Only), 5-66773 (Ice Only) (2)	X105	11/14/02	ME01L3	

Post MS Sample

0304

Shipment for Case Complete?Y	Sample(s) to be used for laboratory QC: E01J8	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 7.7°C	Chain of Custody Seal Number: 22622, [illegible]
Analysis Key:	Concentration: L = Low M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? Y / Shipment Iced? Y

Dry Wt = Dry Weight, 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 20191-3136 Phone 703/264-9348 Fax 703/264-9272

TR Number: 5-3243068 54-111402-0003

USEPA Contract Laboratory Program
Organic Traffic Report

Case No: 31180
DAS No:
SDG No: E01H0

L

Date Shipped: 11/14/02 JW Carrier Name: UPS Airbill: 1z6215892210021896 1896 Shipped to: Clayton Environmental Consultants, Inc 22345 Roethel Drive Novi MI 48375 (248) 344-1770	Date Received/Received by: 11/15/02 Lab Contract No: 68W99069 Unit Price: $539.00 Transfer To: Date Received/Received By: Lab Contract No: Price:	Sampler (Signature): Relinquished By: Date / Time: 11/3/02 Received By: Relinquished By: Date / Time: Received By: Relinquished By: Date / Time: 11/18/02 9:37AM 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
E01K3	Ground Water/ Jerry Willman	L/G	VOA (21)	5-66739 (HCL), 5-66740 (HCL), 5-66741 (HCL), 5-66742 (HCL), 5-66743 (HCL), 5-66744 (HCL) (6)	G101	11/13/02 / 1300	ME01K3	

Shipment for Case Complete? Y	Sample(s) to be used for laboratory QC: E01K3	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 7.7	Chain of Custody Seal Number: 81453
Analysis Key: VOA = CLP TCL Volatiles	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? Y / Shipment Iced? Y

PR provide[illegible]liminary results. Requests for preliminary resuls will increase analytical costs
Send Copy [illegible]ontract Laboratory Analytical Services Support, 2000 Edmund Halley Dr., Rest[illegible]A. 20191-3436 Phone 703/264-9348 Fax 703/264-9222

TR Number: 5-324306854-111502-0002

U.S. EPA Contract Laboratory Program
Organic Traffic Report

Case No: 31180
DAS No:
SDG No: E01H0

L

Date Shipped: 11/13/02
Carrier Name: UPS
Airbill: 1Z6215892210022148
Shipped to: Clayton Environmental Consultants, Inc
22345 Roethel Drive
Novi MI 48375
(248) 344-1770

Date Received/Received by: 11/14/02
Lab Contract No: 65-99669 Unit Price: 165.39.CL

Transfer To:
Date Received/Received By:
Lab Contract No: Price:

Sampler (Signature):

Relinquished By:	Date / Time:	Received By:
	11/13/02 1700	
Relinquished By:	Date / Time:	Received By:
Relinquished By:	Date / Time: 11/14/02 9:43	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
E01H0	Soil/Sediment/ Jerry Willman	L/G	Dry Wt. (21), VOA (21)	5-66502 (Ice Only), 5-66503 (Ice Only) (2)	X201	11/12/02 11:10	ME01H0	
E01H1	Soil/Sediment/ Jerry Willman	L/G	Dry Wt. (21), VOA (21)	5-66505 (Ice Only), 5-66506 (Ice Only) (2)	X201D	11/12/02 11:10	ME01H1	
E01H2	Soil/Sediment/ Jerry Willman	L/G	Dry Wt. (21), VOA (21)	5-66508 (Ice Only), 5-66509 (Ice Only) (2)	X202	11/12/02 12:10	ME01H2	
E01H3	Soil/Sediment/ Jerry Willman	L/G	Dry Wt. (21), VOA (21)	5-66511 (Ice Only), 5-66512 (Ice Only) (2)	X203	11/12/02 12:45	ME01H3	
E01H4	Soil/Sediment/ Jerry Willman	L/G	Dry Wt. (21), VOA (21)	5-66514 (Ice Only), 5-66515 (Ice Only) (2)	X204	11/12/02 13:35	ME01H4	
E01H5	Soil/Sediment/ Jerry Willman	L/G	Dry Wt. (21), VOA (21)	5-66517 (Ice Only), 5-66518 (Ice Only) (2)	X205	11/12/02 15:35	ME01H5	
E01H6	Soil/Sediment/ Jerry Willman	L/G	Dry Wt. (21), VOA (21)	5-66520 (Ice Only), 5-66521 (Ice Only) (2)	X206	11/12/02 14:20	ME01H6	
E01H7	Soil/Sediment/ Jerry Willman	L/G	Dry Wt. (21), VOA (21)	5-66523 (Ice Only), 5-66524 (Ice Only) (2)	X207	11/12/02 15:10	ME01H7	
E01H8	Soil/Sediment/ Jerry Willman	L/G	Dry Wt. (21), VOA (21)	5-66526 (Ice Only), 5-66527 (Ice Only) (2)	X208	11/12/02 16:30	ME01H8	
E01H9	Soil/Sediment/ Jerry Willman	L/G	Dry Wt. (21), VOA (21)	5-66529 (Ice Only), 5-66530 (Ice Only) (2)	X101	11/13/02 13:10	ME01H9	
E01J0	Soil/Sediment/ Jerry Willman	L/G	Dry Wt. (21), VOA (21)	5-66532 (Ice Only), 5-66533 (Ice Only) (2)	X104	11/13/02 14:40	ME01J0	
E01J1	Soil/Sediment/ Jerry Willman	L/G	Dry Wt. (21), VOA (21)	5-66535 (Ice Only), 5-66536 (Ice Only) (2)	X104 D	11/13/02 14:40	ME01J1	
E01J3	Soil/Sediment/ Jerry Willman	L/G	Dry Wt. (21), VOA (21)	5-66702 (Ice Only), 5-66703 (Ice Only) (2)	X103	11/13/02 16:40	ME01J3	

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC: E01H3	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 4.1°C	Chain of Custody Seal Number: 81453
Analysis Key:	Concentration: L = Low M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? Y / Shipment Iced? Y

Dry Wt = Dry Weight, 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 20191-2136 Phone 703/264-9348 Fax 703/264-9322

TR Number: 5-324306854-111302-0001

SDG NARRATIVE

DEC 0 1 2002

Lab Name: Clayton Group Services (CLAYTN)

Contract No.: 68-W-99-069

Case No.: 31180

SDG No.: E01H0

Clayton Work Order No.: 2110394
DO#: 3
Turnaround Requirements: 21 Day

	EPA Sample Number	Matrix	Analysis
1	E01H0	Soil	VOA
2	E01H1	Soil	VOA
3	E01H2	Soil	VOA
4	E01H3 *	Soil	VOA
5	E01H4	Soil	VOA
6	E01H5	Soil	VOA
7	E01H6	Soil	VOA
8	E01H7	Soil	VOA
9	E01H8	Soil	VOA
10	E01H9	Soil	VOA
11	E01J0	Soil	VOA
12	E01J1	Soil	VOA
13	E01J3	Soil	VOA
14	E01J6	Aqueous	VOA
15	E01J9	Aqueous	VOA
16	E01K3 *	Aqueous	VOA
17	E01K5	Aqueous	VOA
18	E01K6	Aqueous	VOA
19	E01K7	Aqueous	VOA
20	E01K8	Aqueous	VOA

*MS/MSD

Sample Information

Sample E01H3 was designated as the MS/MSD for the soil samples.
Sample E01K3 was designated as the MS/MSD for the water samples.

Shipment Information

Thirteen soil samples for VOA analysis were received on November 14, 2002, under UPS airbill no. 1Z-621-589-22-1002-244-8. The samples were received intact. The temperature of the cooler was 4.1°C.

Seven aqueous samples for VOA analysis were received on November 15, 2002, under UPS airbill no. 1Z-621-589-22-1002-189-6. The samples were received intact. The temperature of the cooler was 7.7°C.

- Sample E01K3 was not listed on the Traffic Report. Dyncorp was notified on November 15, 2002. The Region instructed the laboratory to proceed with the analysis. The laboratory received a faxed copy of the Traffic Report for this sample on November 18, 2002. The hard copy followed in the mail and is included.

Date Recv'd:	Cooler #:	Airbill #:	Sample ID:	Temperature (C):*
11/14/02	1	1Z- 621-589-22-1002-244-8	E01H0 – E01H9, E01J1, E01J3	4.1
11/15/02	1	1Z-621-589-22-1002-189-6	E01J6, E01J9, E01K3, E01K5 – E01K8	7.7

*A temperature blank was provided, however it was located at the bottom of the cooler. According to the SOW, the temperature should be measured "prior to unpacking the samples or removing the packing material". The temperature blank was not used; the temperature was measured using an IR gun to comply with SOW requirements.

Analytical Information

<u>VOA</u>

The samples E01H9, E01J0, E01J1 and E01J3 were each collected in three Encores. The Encores were prepared following the EPA 5035 method, upon arrival at the laboratory. The EPA 5035 sample weight worksheet, with the date prepared, is included in the Back End.

Manual integrations were performed on samples E01H0, E01H2, E01H4, E01H5 and E01H8.

The Relative Percent Difference between samples E01K3MS and E01K3MSD for 1,1-Dichloroethene was over the advisory limit.

GC Columns

Instrument ID	Column Serial #	Brand Name	Internal Diameter (mm)	Length (Meters)	Coating Material	Film Thickness (µm)
VOA						
MS-HP2B	465841	Restek	0.25	60	RTX-624	1.4
MS-HP10J	221930	Restek	0.25	60	DB-624	1.4

VOA Traps

Trap Name	Packing Material/ Brand Name	Composition	Amount/Length (cm)
Supelco Purge & Trap K Vocarb 3000	Supelco	Carbopak B	10 cm
		Carboxen 1000	6 cm
		Carboxen 1001	1 cm

Tentatively Identified Alkanes of Volatiles Analysis

EPA Sample No.	n-Alkane (ug/Kg or ug/L)	Branched Alkane (ug/Kg or ug/L)	Cyclic Alkane (ug/Kg or ug/L)
E01H0	73	67	11
E01H1	39	44	7
E01H2	55	50	11
E01H3	7	24	0
E01H3MS			
E01H3MSD			
E01H4	23	10	0
E01H5	39	52	9
E01H6	0	0	0
E01H7	47	36	8
E01H8	9	43	0
E01H9	170	220	62
E01J0	40	36	7
E01J1	14	20	0
E01J3	0	0	0
E01J6	0	0	0
E01J9	0	0	0
E01K3	0	0	0
E01K3MS			
E01K3MSD			
E01K5	0	0	0
E01K6	0	0	0
E01K7	0	0	0
E01K8	0	0	0
VBLKBD	0	0	0
VBLKBE	0	0	0
VBLKJV	0	0	0
VHBLKBA	0	0	0

Lab Name: Clayton Group Services (CLAYTN) Contract No.: 68-W-99-069

Case No.: 31180 SDG No.: E01H0 Clayton Work Order No.: 2110394

Technical/Administrative Problems and Corrective Actions

For the VOA analysis, the Hewlett-Packard software flags all manual edits or any compounds affected by the manual edit of an internal standard with an "m" on the reports. The peak is displayed with the baseline of the manual edits and is documented along with the associated "m" flag on the quant report and spectra report. These edits were necessary due to poor computer integration.

pH of Volatiles

See attached list.

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.

Date 11-22-02

Tim Fields
Organic Laboratory Manager

Clayton Environmental Consultants, Inc.

VOA Water pH's

JAM 11-15-02

CASE NUMBER: 31180 DATE: ~~10~~ 11-15-02

SDG NUMBER: ~~E1H0~~ E01H0 JAM 11-19-02 ANALYST: JAM

CLAYTON PROJECT NO. 02110344

EPA SAMPLE NUMBER	CLAYTON LAB NUMBER	SAMPLE pH
E01J6	016A	5
E01J9	017A	2
E01K3	018A	2
E01K5	019A	2
E01K6	020A	2
E01K7	021A	2
E01K8	022A	2

2A

WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 31180 SAS No.: _____ SDG No.: E01H0

	EPA SAMPLE NO.	SMC1 (TOL) #	SMC2 (BFB) #	SMC3 (DCE) #	OTHER	TOT OUT
01	VBLKJV	94	98	100		0
02	E01J6	96	98	102		0
03	E01J9	96	100	98		0
04	E01K3	96	100	100		0
05	E01K5	88	100	100		0
06	E01K7	90	98	102		0
07	E01K8	88	98	104		0
08	E01K3MS	96	98	108		0
09	E01K3MSD	98	100	104		0
10	E01K6	88	98	106		0

			QC Limit
SMC1	(TOL)	= Toluene-d8	(88-110)
SMC2	(BFB)	= Bromofluorobenzene	(66-115)
SMC3	(DCE)	= 1,2-Dichloroethane-d4	(76-114)

Column to be used to flag recovery values

* Values outside of contract required QC limits

2B

SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 31180 SAS No.: _____ SDG No.: E01H0

Level:(low/med) LOW

EPA SAMPLE NO.	SMC1 (TOL) #	SMC2 (BFB) #	SMC3 (DCE) #	OTHER	TOT OUT
01 VBLKBD	100	98	114		0
02 E01H3	100	95	109		0
03 E01H3MS	102	94	105		0
04 E01H3MSD	100	97	105		0
05 E01H0	103	94	103		0
06 E01H1	107	96	103		0
07 E01H2	106	90	103		0
08 E01H5	105	102	108		0
09 E01H6	104	96	105		0
10 E01H8	112	88	109		0
11 E01H9	96	96	107		0
12 E01J0	100	98	109		0
13 VBLKBE	94	92	102		0
14 E01H4	103	82	98		0
15 E01J1	112	83	102		0
16 E01H7	109	81	107		0
17 E01J3	100	87	109		0
18 VHBLKBA	100	96	100		0

			QC Limit
SMC1	(TOL)	= Toluene-d8	(84-138)
SMC2	(BFB)	= Bromofluorobenzene	(59-113)
SMC3	(DCE)	= 1,2-Dichloroethane-d4	(70-121)

Column to be used to flag recovery values

* Values outside of contract required QC limits

3A

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 31180 SAS No.: SDG No.: E01H0

Matrix Spike - EPA Sample No.: E01K3

COMPOUND	SPIKE ADDED (µg/L)	SAMPLE CONCENTRATION (µg/L)	MS CONCENTRATION (µg/L)	MS % REC #	QC. LIMITS REC.
1,1-Dichloroethene	50	0	51	102	61-145
Trichloroethene	50	0	45	90	71-120
Benzene	50	0	54	108	76-127
Toluene	50	0	51	102	76-125
Chlorobenzene	50	0	53	106	75-130

COMPOUND	SPIKE ADDED (µg/L)	MSD CONCENTRATION (µg/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	50	59	118	15*	14	61-145
Trichloroethene	50	46	92	2	14	71-120
Benzene	50	54	108	0	11	76-127
Toluene	50	54	108	6	13	76-125
Chlorobenzene	50	54	108	2	13	75-130

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

* Values outside of QC limits

RPD: 1 out of 5 outside limits

Spike Recovery: 0 out of 10 outside limits

COMMENTS:

3B

SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 31180 SAS No.: SDG No.: E01H0

Matrix Spike - EPA Sample No.: E01H3 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (µg/Kg)	SAMPLE CONCENTRATION (µg/Kg)	MS CONCENTRATION (µg/Kg)	MS % REC #	QC. LIMITS REC.
1,1-Dichloroethene	64	0	54	84	59-172
Trichloroethene	64	0	55	86	62-137
Benzene	64	0	60	94	66-142
Toluene	64	4	65	95	59-139
Chlorobenzene	64	0	59	92	60-133

COMPOUND	SPIKE ADDED (µg/Kg)	MSD CONCENTRATION (µg/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	64	52	81	4	22	59-172
Trichloroethene	64	56	88	2	24	62-137
Benzene	64	61	95	1	21	66-142
Toluene	64	66	97	2	21	59-139
Chlorobenzene	64	56	88	4	21	60-133

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

* Values outside of QC limits

RPD: 0 out of 5 outside limits

Spike Recovery: 0 out of 10 outside limits

COMMENTS:

4A

EPA SAMPLE NO.

VOLATILE METHOD BLANK SUMMARY

VBLKBD

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 31180 SAS No.:_____ SDG No.: E01H0

Lab File ID: B6141.D Lab Sample ID: 02110394-015A

Date Analyzed: 11/19/02 Time Analyzed: 19:42

GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N) Y

Instrument ID: MS_HP2B

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	E01H3	02110394-004A	B6142.D	20:40
02	E01H3MS	02110394-004B	B6143.D	21:35
03	E01H3MSD	02110394-004C	B6144.D	22:11
04	E01H0	02110394-001A	B6145.D	22:48
05	E01H1	02110394-002A	B6146.D	23:25
06	E01H2	02110394-003A	B6147.D	00:01
07	E01H5	02110394-006A	B6149.D	01:15
08	E01H6	02110394-007A	B6150.D	01:51
09	E01H8	02110394-009A	B6152.D	03:05
10	E01H9	02110394-010A	B6153.D	03:41
11	E01J0	02110394-011A	B6154.D	04:18

COMMENTS:

4A

EPA SAMPLE NO.

VOLATILE METHOD BLANK SUMMARY

VBLKBE

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 31180 SAS No.: _____ SDG No.: E01H0

Lab File ID: B6161.D Lab Sample ID: 02110394-015B

Date Analyzed: 11/20/02 Time Analyzed: 10:57

GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N) Y

Instrument ID: MS_HP2B

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	E01H4	02110394-005A	B6162.D	11:51
02	E01J1	02110394-012A	B6163.D	12:28
03	E01H7	02110394-008A	B6165.D	13:41
04	E01J3	02110394-013A	B6166.D	14:18
05	VHBLKBA	02110394-014A	B6167.D	14:55

COMMENTS:

page 1 of 1

FORM IV VOA CLM04.2

4A

EPA SAMPLE NO.

VOLATILE METHOD BLANK SUMMARY

VBLKJV

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 31180 SAS No.: _____ SDG No.: E01H0

Lab File ID: J9869.D Lab Sample ID: 02110394-023A

Date Analyzed: 11/15/02 Time Analyzed: 12:18

GC Column: DB-VRX ID: 0.25 (mm) Heated Purge: (Y/N) N

Instrument ID: MS_HP10J

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	E01J6	02110394-016A	J9870.D	13:07
02	E01J9	02110394-017A	J9871.D	13:45
03	E01K3	02110394-018A	J9872.D	14:22
04	E01K5	02110394-019A	J9873.D	14:58
05	E01K7	02110394-021A	J9875.D	16:12
06	E01K8	02110394-022A	J9876.D	16:49
07	E01K3MS	02110394-018B	J9878.D	18:18
08	E01K3MSD	02110394-018C	J9879.D	18:55
09	E01K6	02110394-020A	J9880.D	20:11

COMMENTS:

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E01H0

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 31180 SAS No.: _____ SDG No.: E01H0

Matrix: (soil/water) SOIL Lab Sample ID: 02110394-001A

Sample wt/vol: 5 (g/mL) G Lab File ID: B6145.D

Level: (low/med) LOW Date Received: 11/14/02

% Moisture: not dec. 25 Date Analyzed: 11/19/02

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (μL) Soil Aliquot Volume _____ (μL)

CONCENTRATION UNITS:

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

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E01H0

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 31180 SAS No.: _____ SDG No.: E01H0

Matrix: (soil/water) SOIL Lab Sample ID: 02110394-001A

Sample wt/vol: 5 (g/mL) G Lab File ID: B6145.D

Level: (low/med) LOW Date Received: 11/14/02

% Moisture: not dec. 25 Date Analyzed: 11/19/02

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND (µg/L or µg/Kg)	UG/KG	Q
79-01-6	Trichloroethene	13	U
108-87-2	Methylcyclohexane	12	J
78-87-5	1,2-Dichloropropane	13	U
75-27-4	Bromodichloromethane	13	U
10061-01-5	cis-1,3-Dichloropropene	13	U
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	7	J
10061-02-6	trans-1,3-Dichloropropene	13	U
79-00-5	1,1,2-Trichloroethane	13	U
127-18-4	Tetrachloroethene	13	U
591-78-6	2-Hexanone	2	BJ
124-48-1	Dibromochloromethane	13	U
106-93-4	1,2-Dibromoethane	13	U
108-90-7	Chlorobenzene	2	J
100-41-4	Ethylbenzene	2	J
1330-20-7	Xylene (total)	2	J
100-42-5	Styrene	13	U
75-25-2	Bromoform	13	U
98-82-8	Isopropylbenzene	13	U
79-34-5	1,1,2,2-Tetrachloroethane	13	U
541-73-1	1,3-Dichlorobenzene	13	U
106-46-7	1,4-Dichlorobenzene	13	U
95-50-1	1,2-Dichlorobenzene	13	U
96-12-8	1,2-Dibromo-3-chloropropane	13	U
120-82-1	1,2,4-Trichlorobenzene	13	U

1F

EPA SAMPLE NO.

E01H0

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 31180 SAS No.: _____ SDG No.: E01H0

Matrix: (soil/water) SOIL Lab Sample ID: C2110394-001A

Sample wt/vol: 5 (g/mL) G Lab File ID: B6145.D

Level: (low/med) LOW Date Received: 11/14/02

% Moisture: not dec. 25 Date Analyzed: 11/19/02

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

CONCENTRATION UNITS:

Number TICs found: 3 (µg/L or µg/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1.		Unknown (5.05)	5.05	40	J
2.	000556-67-2	Cyclotetrasiloxane, octamethyl-	19.83	21	BNJ
3.		Unknown (24.39)	24.39	7	BJ

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E01H1

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 31180 SAS No.: _____ SDG No.: E01H0

Matrix: (soil/water) SOIL Lab Sample ID: 02110394-002A

Sample wt/vol: 5 (g/mL) G Lab File ID: B6146.D

Level: (low/med) LOW Date Received: 11/14/02

% Moisture: not dec. 25 Date Analyzed: 11/19/02

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND (µg/L or µg/Kg)	UG/KG	Q
75-71-8	Dichlorodifluoromethane	13	U
74-87-3	Chloromethane	1	BJ
75-01-4	Vinyl Chloride	13	U
74-83-9	Bromomethane	13	U
75-00-3	Chloroethane	13	U
75-69-4	Trichlorofluoromethane	13	U
75-35-4	1,1-Dichloroethene	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	13	U
67-64-1	Acetone	61	B
75-15-0	Carbon Disulfide	2	BJ
79-20-9	Methyl Acetate	7	BJ
75-09-2	Methylene Chloride	1	BJ
156-60-5	trans-1,2-Dichloroethene	13	U
1634-04-4	Methyl tert-Butyl Ether	13	U
75-34-3	1,1-Dichloroethane	13	U
156-59-2	cis-1,2-Dichloroethene	13	U
78-93-3	2-Butanone	14	B
67-66-3	Chloroform	13	U
71-55-6	1,1,1-Trichloroethane	13	U
110-82-7	Cyclohexane	4	J
56-23-5	Carbon Tetrachloride	13	U
71-43-2	Benzene	2	J
107-06-2	1,2-Dichloroethane	13	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E01H1

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 31180 SAS No.: _____ SDG No.: E01H0

Matrix: (soil/water) SOIL Lab Sample ID: 02110394-002A

Sample wt/vol: 5 (g/mL) G Lab File ID: B6146.D

Level: (low/med) LOW Date Received: 11/14/02

% Moisture: not dec. 25 Date Analyzed: 11/19/02

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND (µg/L or µg/Kg)	UG/KG	Q
79-01-6	Trichloroethene	13	U
108-87-2	Methylcyclohexane	6	J
78-87-5	1,2-Dichloropropane	13	U
75-27-4	Bromodichloromethane	13	U
10061-01-5	cis-1,3-Dichloropropene	13	U
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	4	J
10061-02-6	trans-1,3-Dichloropropene	13	U
79-00-5	1,1,2-Trichloroethane	13	U
127-18-4	Tetrachloroethene	13	U
591-78-6	2-Hexanone	13	U
124-48-1	Dibromochloromethane	13	U
106-93-4	1,2-Dibromoethane	13	U
108-90-7	Chlorobenzene	13	U
100-41-4	Ethylbenzene	1	J
1330-20-7	Xylene (total)	2	J
100-42-5	Styrene	13	U
75-25-2	Bromoform	13	U
98-82-8	Isopropylbenzene	13	U
79-34-5	1,1,2,2-Tetrachloroethane	13	U
541-73-1	1,3-Dichlorobenzene	13	U
106-46-7	1,4-Dichlorobenzene	13	U
95-50-1	1,2-Dichlorobenzene	13	U
96-12-8	1,2-Dibromo-3-chloropropane	13	U
120-82-1	1,2,4-Trichlorobenzene	13	U

1F

EPA SAMPLE NO.

E01H1

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 31180 SAS No.: _____ SDG No.: E01H0

Matrix: (soil/water) SOIL Lab Sample ID: 02110394-002A

Sample wt/vol: 5 (g/mL) G Lab File ID: B6146.D

Level: (low/med) LOW Date Received: 11/14/02

% Moisture: not dec. 25 Date Analyzed: 11/19/02

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

CONCENTRATION UNITS:

Number TICs found: 2 (µg/L or µg/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1.	Unknown (5.03)	5.03	20	J
2. 000556-67-2	Cyclotetrasiloxane, octamethyl-	19.83	11	BNJ

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E01H2

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 31180 SAS No.: _____ SDG No.: E01H0

Matrix: (soil/water) SOIL Lab Sample ID: 02110394-003A

Sample wt/vol: 5 (g/mL) G Lab File ID: B6147.D

Level: (low/med) LOW Date Received: 11/14/02

% Moisture: not dec. 25 Date Analyzed: 11/20/02

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND (µg/L or µg/Kg)	UG/KG	Q
75-71-8	Dichlorodifluoromethane	13	U
74-87-3	Chloromethane	1	BJ
75-01-4	Vinyl Chloride	13	U
74-83-9	Bromomethane	13	U
75-00-3	Chloroethane	13	U
75-69-4	Trichlorofluoromethane	13	U
75-35-4	1,1-Dichloroethene	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	13	U
67-64-1	Acetone	90	B
75-15-0	Carbon Disulfide	13	B
79-20-9	Methyl Acetate	8	BJ
75-09-2	Methylene Chloride	13	U
156-60-5	trans-1,2-Dichloroethene	13	U
1634-04-4	Methyl tert-Butyl Ether	13	U
75-34-3	1,1-Dichloroethane	13	U
156-59-2	cis-1,2-Dichloroethene	13	U
78-93-3	2-Butanone	16	B
67-66-3	Chloroform	13	U
71-55-6	1,1,1-Trichloroethane	13	U
110-82-7	Cyclohexane	6	J
56-23-5	Carbon Tetrachloride	13	U
71-43-2	Benzene	3	J
107-06-2	1,2-Dichloroethane	13	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E01H2

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 31180 SAS No.: _____ SDG No.: E01H0

Matrix: (soil/water) SOIL Lab Sample ID: 02110394-003A

Sample wt/vol: 5 (g/mL) G Lab File ID: B6147.D

Level: (low/med) LOW Date Received: 11/14/02

% Moisture: not dec. 25 Date Analyzed: 11/20/02

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
79-01-6	Trichloroethene	13	U
108-87-2	Methylcyclohexane	10	J
78-87-5	1,2-Dichloropropane	13	U
75-27-4	Bromodichloromethane	13	U
10061-01-5	cis-1,3-Dichloropropene	13	U
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	5	J
10061-02-6	trans-1,3-Dichloropropene	13	U
79-00-5	1,1,2-Trichloroethane	13	U
127-18-4	Tetrachloroethene	13	U
591-78-6	2-Hexanone	13	U
124-48-1	Dibromochloromethane	13	U
106-93-4	1,2-Dibromoethane	13	U
108-90-7	Chlorobenzene	13	U
100-41-4	Ethylbenzene	2	J
1330-20-7	Xylene (total)	2	J
100-42-5	Styrene	13	U
75-25-2	Bromoform	13	U
98-82-8	Isopropylbenzene	13	U
79-34-5	1,1,2,2-Tetrachloroethane	13	U
541-73-1	1,3-Dichlorobenzene	13	U
106-46-7	1,4-Dichlorobenzene	13	U
95-50-1	1,2-Dichlorobenzene	13	U
96-12-8	1,2-Dibromo-3-chloropropane	1	BJ
120-82-1	1,2,4-Trichlorobenzene	13	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E01H2

Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 31180 SAS No.: _____ SDG No.: E01H0

Matrix: (soil/water) SOIL Lab Sample ID: 02110394-003A

Sample wt/vol: 5 (g/mL) G Lab File ID: B6147.D

Level: (low/med) LOW Date Received: 11/14/02

% Moisture: not dec. 25 Date Analyzed: 11/20/02

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

Number TICs found: 3 CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1.		Unknown (5.03)	5.03	30	J
2.	000556-67-2	Cyclotetrasiloxane, octamethyl-	19.83	29	BNJ
3.		Unknown (24.39)	24.37	7	BJ

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E01H3

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 31180 SAS No.: _____ SDG No.: E01H0

Matrix: (soil/water) SOIL Lab Sample ID: 02110394-004A

Sample wt/vol: 5 (g/mL) G Lab File ID: B6142.D

Level: (low/med) LOW Date Received: 11/14/02

% Moisture: not dec. 22 Date Analyzed: 11/19/02

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	13	U
74-87-3	Chloromethane	2	BJ
75-01-4	Vinyl Chloride	13	U
74-83-9	Bromomethane	13	U
75-00-3	Chloroethane	13	U
75-69-4	Trichlorofluoromethane	13	U
75-35-4	1,1-Dichloroethene	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	13	U
67-64-1	Acetone	46	B
75-15-0	Carbon Disulfide	5	BJ
79-20-9	Methyl Acetate	13	U
75-09-2	Methylene Chloride	2	BJ
156-60-5	trans-1,2-Dichloroethene	13	U
1634-04-4	Methyl tert-Butyl Ether	13	U
75-34-3	1,1-Dichloroethane	13	U
156-59-2	cis-1,2-Dichloroethene	13	U
78-93-3	2-Butanone	7	BJ
67-66-3	Chloroform	13	U
71-55-6	1,1,1-Trichloroethane	13	U
110-82-7	Cyclohexane	2	J
56-23-5	Carbon Tetrachloride	13	U
71-43-2	Benzene	13	U
107-06-2	1,2-Dichloroethane	13	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E01H3

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 31180 SAS No.: _____ SDG No.: E01H0

Matrix: (soil/water) SOIL Lab Sample ID: 02110394-004A

Sample wt/vol: 5 (g/mL) G Lab File ID: B6142.D

Level: (low/med) LOW Date Received: 11/14/02

% Moisture: not dec. 22 Date Analyzed: 11/19/02

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND (µg/L or µg/Kg)	UG/KG	Q
79-01-6	Trichloroethene	13	U
108-87-2	Methylcyclohexane	3	J
78-87-5	1,2-Dichloropropane	13	U
75-27-4	Bromodichloromethane	13	U
10061-01-5	cis-1,3-Dichloropropene	13	U
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	4	J
10061-02-6	trans-1,3-Dichloropropene	13	U
79-00-5	1,1,2-Trichloroethane	13	U
127-18-4	Tetrachloroethene	13	U
591-78-6	2-Hexanone	2	BJ
124-48-1	Dibromochloromethane	13	U
106-93-4	1,2-Dibromoethane	13	U
108-90-7	Chlorobenzene	13	U
100-41-4	Ethylbenzene	3	J
1330-20-7	Xylene (total)	2	J
100-42-5	Styrene	13	U
75-25-2	Bromoform	13	U
98-82-8	Isopropylbenzene	13	U
79-34-5	1,1,2,2-Tetrachloroethane	13	U
541-73-1	1,3-Dichlorobenzene	13	U
106-46-7	1,4-Dichlorobenzene	13	U
95-50-1	1,2-Dichlorobenzene	13	U
96-12-8	1,2-Dibromo-3-chloropropane	13	U
120-82-1	1,2,4-Trichlorobenzene	13	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E01H3

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 31180 SAS No.: _____ SDG No.: E01H0

Matrix: (soil/water) SOIL Lab Sample ID: 02110394-004A

Sample wt/vol: 5 (g/mL) G Lab File ID: B6142.D

Level: (low/med) LOW Date Received: 11/14/02

% Moisture: not dec. 22 Date Analyzed: 11/19/02

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

CONCENTRATION UNITS:

Number TICs found: 6 (µg/L or µg/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1.		Unknown (5.05)	5.05	15	J
2.		Unknown (5.57)	5.57	10	J
3.		Unknown (14.45)	14.45	7	J
4.	000556-67-2	Cyclotetrasiloxane, octamethyl-	19.85	18	BNJ
5.		Unknown (24.39)	24.40	30	BJ
6.		Unknown (29.05)	29.05	7	J

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E01H3MS

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 31180 SAS No.: _____ SDG No.: E01H0

Matrix: (soil/water) SOIL Lab Sample ID: 02110394-004B

Sample wt/vol: 5 (g/mL) G Lab File ID: B6143.D

Level: (low/med) LOW Date Received: 11/14/02

% Moisture: not dec. 22 Date Analyzed: 11/19/02

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

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

CAS NO.	COMPOUND	UG/KG	Q
75-71-8	Dichlorodifluoromethane	13	U
74-87-3	Chloromethane	2	BJ
75-01-4	Vinyl Chloride	13	U
74-83-9	Bromomethane	13	U
75-00-3	Chloroethane	13	U
75-69-4	Trichlorofluoromethane	13	U
75-35-4	1,1-Dichloroethene	54	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	13	U
67-64-1	Acetone	55	B
75-15-0	Carbon Disulfide	5	BJ
79-20-9	Methyl Acetate	13	U
75-09-2	Methylene Chloride	2	BJ
156-60-5	trans-1,2-Dichloroethene	13	U
1634-04-4	Methyl tert-Butyl Ether	13	U
75-34-3	1,1-Dichloroethane	13	U
156-59-2	cis-1,2-Dichloroethene	13	U
78-93-3	2-Butanone	8	BJ
67-66-3	Chloroform	13	U
71-55-6	1,1,1-Trichloroethane	13	U
110-82-7	Cyclohexane	2	J
56-23-5	Carbon Tetrachloride	13	U
71-43-2	Benzene	60	
107-06-2	1,2-Dichloroethane	13	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E01H3MS

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 31180 SAS No.: _____ SDG No.: E01H0

Matrix: (soil/water) SOIL Lab Sample ID: 02110394-004B

Sample wt/vol: 5 (g/mL) G Lab File ID: B6143.D

Level: (low/med) LOW Date Received: 11/14/02

% Moisture: not dec. 22 Date Analyzed: 11/19/02

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/KG	Q
79-01-6	Trichloroethene	55	
108-87-2	Methylcyclohexane	4	J
78-87-5	1,2-Dichloropropane	13	U
75-27-4	Bromodichloromethane	13	U
10061-01-5	cis-1,3-Dichloropropene	13	U
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	65	
10061-02-6	trans-1,3-Dichloropropene	13	U
79-00-5	1,1,2-Trichloroethane	13	U
127-18-4	Tetrachloroethene	13	U
591-78-6	2-Hexanone	13	U
124-48-1	Dibromochloromethane	13	U
106-93-4	1,2-Dibromoethane	13	U
108-90-7	Chlorobenzene	59	
100-41-4	Ethylbenzene	3	J
1330-20-7	Xylene (total)	2	J
100-42-5	Styrene	13	U
75-25-2	Bromoform	13	U
98-82-8	Isopropylbenzene	13	U
79-34-5	1,1,2,2-Tetrachloroethane	13	U
541-73-1	1,3-Dichlorobenzene	13	U
106-46-7	1,4-Dichlorobenzene	13	U
95-50-1	1,2-Dichlorobenzene	13	U
96-12-8	1,2-Dibromo-3-chloropropane	13	U
120-82-1	1,2,4-Trichlorobenzene	13	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E01H3MSD

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 31180 SAS No.: _____ SDG No.: E01H0

Matrix: (soil/water) SOIL Lab Sample ID: 02110394-004C

Sample wt/vol: 5 (g/mL) G Lab File ID: B6144.D

Level: (low/med) LOW Date Received: 11/14/02

% Moisture: not dec. 22 Date Analyzed: 11/19/02

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND (µg/L or µg/Kg)	UG/KG	Q
75-71-8	Dichlorodifluoromethane	13	U
74-87-3	Chloromethane	2	BJ
75-01-4	Vinyl Chloride	13	U
74-83-9	Bromomethane	13	U
75-00-3	Chloroethane	13	U
75-69-4	Trichlorofluoromethane	13	U
75-35-4	1,1-Dichloroethene	52	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	13	U
67-64-1	Acetone	56	B
75-15-0	Carbon Disulfide	4	BJ
79-20-9	Methyl Acetate	13	U
75-09-2	Methylene Chloride	2	BJ
156-60-5	trans-1,2-Dichloroethene	13	U
1634-04-4	Methyl tert-Butyl Ether	13	U
75-34-3	1,1-Dichloroethane	13	U
156-59-2	cis-1,2-Dichloroethene	13	U
78-93-3	2-Butanone	7	BJ
67-66-3	Chloroform	13	U
71-55-6	1,1,1-Trichloroethane	13	U
110-82-7	Cyclohexane	4	J
56-23-5	Carbon Tetrachloride	13	U
71-43-2	Benzene	61	
107-06-2	1,2-Dichloroethane	13	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E01H3MSD

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 31180 SAS No.: _____ SDG No.: E01H0

Matrix: (soil/water) SOIL Lab Sample ID: 02110394-004C

Sample wt/vol: 5 (g/mL) G Lab File ID: B6144.D

Level: (low/med) LOW Date Received: 11/14/02

% Moisture: not dec. 22 Date Analyzed: 11/19/02

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

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

CAS NO.	COMPOUND	UG/KG	Q
79-01-6	Trichloroethene	56	
108-87-2	Methylcyclohexane	8	J
78-87-5	1,2-Dichloropropane	13	U
75-27-4	Bromodichloromethane	13	U
10061-01-5	cis-1,3-Dichloropropene	13	U
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	66	
10061-02-6	trans-1,3-Dichloropropene	13	U
79-00-5	1,1,2-Trichloroethane	13	U
127-18-4	Tetrachloroethene	13	U
591-78-6	2-Hexanone	3	BJ
124-48-1	Dibromochloromethane	13	U
106-93-4	1,2-Dibromoethane	13	U
108-90-7	Chlorobenzene	56	
100-41-4	Ethylbenzene	4	J
1330-20-7	Xylene (total)	4	J
100-42-5	Styrene	13	U
75-25-2	Bromoform	13	U
98-82-8	Isopropylbenzene	13	U
79-34-5	1,1,2,2-Tetrachloroethane	13	U
541-73-1	1,3-Dichlorobenzene	13	U
106-46-7	1,4-Dichlorobenzene	13	U
95-50-1	1,2-Dichlorobenzene	13	U
96-12-8	1,2-Dibromo-3-chloropropane	13	U
120-82-1	1,2,4-Trichlorobenzene	13	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E01H4

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 31180 SAS No.: _____ SDG No.: E01H0

Matrix: (soil/water) SOIL Lab Sample ID: 02110394-005A

Sample wt/vol: 5 (g/mL) G Lab File ID: B6162.D

Level: (low/med) LOW Date Received: 11/14/02

% Moisture: not dec. 19 Date Analyzed: 11/20/02

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	12	U
74-87-3	Chloromethane	12	U
75-01-4	Vinyl Chloride	12	U
74-83-9	Bromomethane	12	U
75-00-3	Chloroethane	12	U
75-69-4	Trichlorofluoromethane	12	U
75-35-4	1,1-Dichloroethene	12	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	12	U
67-64-1	Acetone	18	B
75-15-0	Carbon Disulfide	10	J
79-20-9	Methyl Acetate	7	BJ
75-09-2	Methylene Chloride	3	BJ
156-60-5	trans-1,2-Dichloroethene	12	U
1634-04-4	Methyl tert-Butyl Ether	12	U
75-34-3	1,1-Dichloroethane	12	U
156-59-2	cis-1,2-Dichloroethene	12	U
78-93-3	2-Butanone	12	U
67-66-3	Chloroform	12	U
71-55-6	1,1,1-Trichloroethane	12	U
110-82-7	Cyclohexane	2	J
56-23-5	Carbon Tetrachloride	12	U
71-43-2	Benzene	12	U
107-06-2	1,2-Dichloroethane	12	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E01H4

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 31180 SAS No.: _____ SDG No.: E01H0

Matrix: (soil/water) SOIL Lab Sample ID: 02110394-005A

Sample wt/vol: 5 (g/mL) G Lab File ID: B6162.D

Level: (low/med) LOW Date Received: 11/14/02

% Moisture: not dec. 19 Date Analyzed: 11/20/02

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CONCENTRATION UNITS:

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

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E01H4

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 31180 SAS No.: _____ SDG No.: E01H0

Matrix: (soil/water) SOIL Lab Sample ID: 02110394-005A

Sample wt/vol: 5 (g/mL) G Lab File ID: B6162.D

Level: (low/med) LOW Date Received: 11/14/02

% Moisture: not dec. 19 Date Analyzed: 11/20/02

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

CONCENTRATION UNITS:

Number TICs found: 5 (µg/L or µg/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1.		Unknown (5.05)	5.05	14	J
2.		Unknown (5.43)	5.43	34	J
3.	000556-67-2	Cyclotetrasiloxane, octamethyl-	19.85	23	NJ
4.		Unknown (24.39)	24.39	29	BJ
5.		Unknown (29.04)	29.04	9	BJ

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E01H5

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 31180 SAS No.: _____ SDG No.: E01H0

Matrix: (soil/water) SOIL Lab Sample ID: 02110394-006A

Sample wt/vol: 5 (g/mL) G Lab File ID: B6149.D

Level: (low/med) LOW Date Received: 11/14/02

% Moisture: not dec. 15 Date Analyzed: 11/20/02

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND (µg/L or µg/Kg)	UG/KG	Q
75-71-8	Dichlorodifluoromethane	12	U
74-87-3	Chloromethane	1	BJ
75-01-4	Vinyl Chloride	12	U
74-83-9	Bromomethane	12	U
75-00-3	Chloroethane	12	U
75-69-4	Trichlorofluoromethane	12	U
75-35-4	1,1-Dichloroethene	12	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	12	U
67-64-1	Acetone	71	B
75-15-0	Carbon Disulfide	3	BJ
79-20-9	Methyl Acetate	5	BJ
75-09-2	Methylene Chloride	2	BJ
156-60-5	trans-1,2-Dichloroethene	12	U
1634-04-4	Methyl tert-Butyl Ether	12	U
75-34-3	1,1-Dichloroethane	12	U
156-59-2	cis-1,2-Dichloroethene	12	U
78-93-3	2-Butanone	13	B
67-66-3	Chloroform	12	U
71-55-6	1,1,1-Trichloroethane	12	U
110-82-7	Cyclohexane	3	J
56-23-5	Carbon Tetrachloride	12	U
71-43-2	Benzene	2	J
107-06-2	1,2-Dichloroethane	12	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E01H5

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 31180 SAS No.: _____ SDG No.: E01H0

Matrix: (soil/water) SOIL Lab Sample ID: 02110394-006A

Sample wt/vol: 5 (g/mL) G Lab File ID: B6149.D

Level: (low/med) LOW Date Received: 11/14/02

% Moisture: not dec. 15 Date Analyzed: 11/20/02

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

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

1F

EPA SAMPLE NO.

E01H5

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 31180 SAS No.: _____ SDG No.: E01H0

Matrix: (soil/water) SOIL Lab Sample ID: 02110394-006A

Sample wt/vol: 5 (g/mL) G Lab File ID: B6149.D

Level: (low/med) LOW Date Received: 11/14/02

% Moisture: not dec. 15 Date Analyzed: 11/20/02

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

CONCENTRATION UNITS:

Number TICs found: 3 (µg/L or µg/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1.	Unknown (5.03)	5.03	20	J
2. 000556-67-2	Cyclotetrasiloxane, octamethyl-	19.84	33	BNJ
3.	Unknown (24.39)	24.38	8	BJ

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E01H6

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 31180 SAS No.: _____ SDG No.: E01H0

Matrix: (soil/water) SOIL Lab Sample ID: 02110394-007A

Sample wt/vol: 5 (g/mL) G Lab File ID: B6150.D

Level: (low/med) LOW Date Received: 11/14/02

% Moisture: not dec. 11 Date Analyzed: 11/20/02

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND (µg/L or µg/Kg)	UG/KG	Q
75-71-8	Dichlorodifluoromethane	11	U
74-87-3	Chloromethane	2	BJ
75-01-4	Vinyl Chloride	11	U
74-83-9	Bromomethane	11	U
75-00-3	Chloroethane	11	U
75-69-4	Trichlorofluoromethane	11	U
75-35-4	1,1-Dichloroethene	11	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	11	U
67-64-1	Acetone	79	B
75-15-0	Carbon Disulfide	11	U
79-20-9	Methyl Acetate	4	BJ
75-09-2	Methylene Chloride	2	BJ
156-60-5	trans-1,2-Dichloroethene	11	U
1634-04-4	Methyl tert-Butyl Ether	11	U
75-34-3	1,1-Dichloroethane	11	U
156-59-2	cis-1,2-Dichloroethene	11	U
78-93-3	2-Butanone	11	B
67-66-3	Chloroform	11	U
71-55-6	1,1,1-Trichloroethane	11	U
110-82-7	Cyclohexane	11	U
56-23-5	Carbon Tetrachloride	11	U
71-43-2	Benzene	11	U
107-06-2	1,2-Dichloroethane	11	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E01H6

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 31180 SAS No.: _____ SDG No.: E01H0

Matrix: (soil/water) SOIL Lab Sample ID: 02110394-007A

Sample wt/vol: 5 (g/mL) G Lab File ID: B6150.D

Level: (low/med) LOW Date Received: 11/14/02

% Moisture: not dec. 11 Date Analyzed: 11/20/02

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
79-01-6	Trichloroethene	11	U
108-87-2	Methylcyclohexane	11	U
78-87-5	1,2-Dichloropropane	11	U
75-27-4	Bromodichloromethane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
108-10-1	4-Methyl-2-pentanone	11	U
108-88-3	Toluene	11	U
10061-02-6	trans-1,3-Dichloropropene	11	U
79-00-5	1,1,2-Trichloroethane	11	U
127-18-4	Tetrachloroethene	11	U
591-78-6	2-Hexanone	11	U
124-48-1	Dibromochloromethane	11	U
106-93-4	1,2-Dibromoethane	11	U
108-90-7	Chlorobenzene	11	U
100-41-4	Ethylbenzene	11	U
1330-20-7	Xylene (total)	11	U
100-42-5	Styrene	11	U
75-25-2	Bromoform	11	U
98-82-8	Isopropylbenzene	11	U
79-34-5	1,1,2,2-Tetrachloroethane	11	U
541-73-1	1,3-Dichlorobenzene	11	U
106-46-7	1,4-Dichlorobenzene	11	U
95-50-1	1,2-Dichlorobenzene	11	U
96-12-8	1,2-Dibromo-3-chloropropane	11	U
120-82-1	1,2,4-Trichlorobenzene	11	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E01H6

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 31180 SAS No.: _____ SDG No.: E01H0

Matrix: (soil/water) SOIL Lab Sample ID: 02110394-007A

Sample wt/vol: 5 (g/mL) G Lab File ID: B6150.D

Level: (low/med) LOW Date Received: 11/14/02

% Moisture: not dec. 11 Date Analyzed: 11/20/02

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

Number TICs found: 2 CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1.		Unknown (15.84)	15.84	10	J
2.	000556-67-2	Cyclotetrasiloxane, octamethyl-	19.83	6	BNJ

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E01H7

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 31180 SAS No.: _____ SDG No.: E01H0

Matrix: (soil/water) SOIL Lab Sample ID: 02110394-008A

Sample wt/vol: 5 (g/mL) G Lab File ID: B6165.D

Level: (low/med) LOW Date Received: 11/14/02

% Moisture: not dec. 8 Date Analyzed: 11/20/02

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	11	U
74-87-3	Chloromethane	11	U
75-01-4	Vinyl Chloride	11	U
74-83-9	Bromomethane	11	U
75-00-3	Chloroethane	11	U
75-69-4	Trichlorofluoromethane	11	U
75-35-4	1,1-Dichloroethene	11	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	11	U
67-64-1	Acetone	19	B
75-15-0	Carbon Disulfide	11	U
79-20-9	Methyl Acetate	11	U
75-09-2	Methylene Chloride	2	BJ
156-60-5	trans-1,2-Dichloroethene	11	U
1634-04-4	Methyl tert-Butyl Ether	11	U
75-34-3	1,1-Dichloroethane	11	U
156-59-2	cis-1,2-Dichloroethene	11	U
78-93-3	2-Butanone	3	BJ
67-66-3	Chloroform	11	U
71-55-6	1,1,1-Trichloroethane	11	U
110-82-7	Cyclohexane	5	J
56-23-5	Carbon Tetrachloride	11	U
71-43-2	Benzene	2	J
107-06-2	1,2-Dichloroethane	11	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E01H7

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 31180 SAS No.: _____ SDG No.: E01H0

Matrix: (soil/water) SOIL Lab Sample ID: 02110394-008A

Sample wt/vol: 5 (g/mL) G Lab File ID: B6165.D

Level: (low/med) LOW Date Received: 11/14/02

% Moisture: not dec. 8 Date Analyzed: 11/20/02

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

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

CAS NO.	COMPOUND	UG/KG	Q
79-01-6	Trichloroethene	11	U
108-87-2	Methylcyclohexane	7	J
78-87-5	1,2-Dichloropropane	11	U
75-27-4	Bromodichloromethane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
108-10-1	4-Methyl-2-pentanone	11	U
108-88-3	Toluene	6	J
10061-02-6	trans-1,3-Dichloropropene	11	U
79-00-5	1,1,2-Trichloroethane	11	U
127-18-4	Tetrachloroethene	11	U
591-78-6	2-Hexanone	11	U
124-48-1	Dibromochloromethane	11	U
106-93-4	1,2-Dibromoethane	11	U
108-90-7	Chlorobenzene	11	U
100-41-4	Ethylbenzene	3	J
1330-20-7	Xylene (total)	4	J
100-42-5	Styrene	11	U
75-25-2	Bromoform	11	U
98-82-8	Isopropylbenzene	11	U
79-34-5	1,1,2,2-Tetrachloroethane	11	U
541-73-1	1,3-Dichlorobenzene	11	U
106-46-7	1,4-Dichlorobenzene	11	U
95-50-1	1,2-Dichlorobenzene	11	U
96-12-8	1,2-Dibromo-3-chloropropane	11	U
120-82-1	1,2,4-Trichlorobenzene	11	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E01H7

Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 31180 SAS No.: _____ SDG No.: E01H0

Matrix: (soil/water) SOIL Lab Sample ID: 02110394-008A

Sample wt/vol: 5 (g/mL) G Lab File ID: B6165.D

Level: (low/med) LOW Date Received: 11/14/02

% Moisture: not dec. 8 Date Analyzed: 11/20/02

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

Number TICs found: 5 CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1.	Unknown (5.05)	5.05	19	J
2.	Unknown (5.32)	5.32	14	J
3.	Unknown (8.98)	8.98	7	J
4. 000556-67-2	Cyclotetrasiloxane, octamethyl-	19.85	25	NJ
5.	Unknown (24.39)	24.39	25	BJ

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E01H8

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 31180 SAS No.: _____ SDG No.: E01H0

Matrix: (soil/water) SOIL Lab Sample ID: 02110394-009A

Sample wt/vol: 5 (g/mL) G Lab File ID: B6152.D

Level: (low/med) LOW Date Received: 11/14/02

% Moisture: not dec. 44 Date Analyzed: 11/20/02

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	18	U
74-87-3	Chloromethane	4	BJ
75-01-4	Vinyl Chloride	18	U
74-83-9	Bromomethane	18	U
75-00-3	Chloroethane	18	U
75-69-4	Trichlorofluoromethane	18	U
75-35-4	1,1-Dichloroethene	18	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	18	U
67-64-1	Acetone	220	B
75-15-0	Carbon Disulfide	2	BJ
79-20-9	Methyl Acetate	6	BJ
75-09-2	Methylene Chloride	2	BJ
156-60-5	trans-1,2-Dichloroethene	18	U
1634-04-4	Methyl tert-Butyl Ether	18	U
75-34-3	1,1-Dichloroethane	18	U
156-59-2	cis-1,2-Dichloroethene	18	U
78-93-3	2-Butanone	25	B
67-66-3	Chloroform	18	U
71-55-6	1,1,1-Trichloroethane	18	U
110-82-7	Cyclohexane	18	U
56-23-5	Carbon Tetrachloride	18	U
71-43-2	Benzene	18	U
107-06-2	1,2-Dichloroethane	18	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E01H8

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 31180 SAS No.: _____ SDG No.: E01H0

Matrix: (soil/water) SOIL Lab Sample ID: 02110394-009A

Sample wt/vol: 5 (g/mL) G Lab File ID: B6152.D

Level: (low/med) LOW Date Received: 11/14/02

% Moisture: not dec. 44 Date Analyzed: 11/20/02

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

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

1F

EPA SAMPLE NO.

E01H8

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 31180 SAS No.: _____ SDG No.: E01H0

Matrix: (soil/water) SOIL Lab Sample ID: 02110394-009A

Sample wt/vol: 5 (g/mL) G Lab File ID: B6152.D

Level: (low/med) LOW Date Received: 11/14/02

% Moisture: not dec. 44 Date Analyzed: 11/20/02

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

CONCENTRATION UNITS:

Number TICs found: 9 (µg/L or µg/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1.		Unknown (5.03)	5.03	28	J
2.		Unknown (5.53)	5.53	23	J
3.		Unknown (5.78)	5.78	22	J
4.		Unknown (8.98)	8.98	170	J
5.		Unknown (9.33)	9.33	13	J
6.		Unknown (10.37)	10.37	29	J
7.		Unknown (15.84)	15.84	12	J
8.	000556-67-2	Cyclotetrasiloxane, octamethyl-	19.83	41	BNJ
9.		Unknown (24.39)	24.39	19	BJ

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E01H9

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 31180 SAS No.: _____ SDG No.: E01H0

Matrix: (soil/water) SOIL Lab Sample ID: 02110394-010A

Sample wt/vol: 5.64 (g/mL) G Lab File ID: B6153.D

Level: (low/med) LOW Date Received: 11/14/02

% Moisture: not dec. 19 Date Analyzed: 11/20/02

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

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

CAS NO.	COMPOUND	UG/KG	Q
75-71-8	Dichlorodifluoromethane	11	U
74-87-3	Chloromethane	2	BJ
75-01-4	Vinyl Chloride	11	U
74-83-9	Bromomethane	11	U
75-00-3	Chloroethane	11	U
75-69-4	Trichlorofluoromethane	11	U
75-35-4	1,1-Dichloroethene	11	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	11	U
67-64-1	Acetone	110	B
75-15-0	Carbon Disulfide	1	BJ
79-20-9	Methyl Acetate	11	U
75-09-2	Methylene Chloride	2	BJ
156-60-5	trans-1,2-Dichloroethene	11	U
1634-04-4	Methyl tert-Butyl Ether	11	U
75-34-3	1,1-Dichloroethane	11	U
156-59-2	cis-1,2-Dichloroethene	11	U
78-93-3	2-Butanone	15	B
67-66-3	Chloroform	11	U
71-55-6	1,1,1-Trichloroethane	11	U
110-82-7	Cyclohexane	19	
56-23-5	Carbon Tetrachloride	11	U
71-43-2	Benzene	6	J
107-06-2	1,2-Dichloroethane	11	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E01H9

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 31180 SAS No.: _____ SDG No.: E01H0

Matrix: (soil/water) SOIL Lab Sample ID: 02110394-010A

Sample wt/vol: 5.64 (g/mL) G Lab File ID: B6153.D

Level: (low/med) LOW Date Received: 11/14/02

% Moisture: not dec. 19 Date Analyzed: 11/20/02

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
79-01-6	Trichloroethene	11	U
108-87-2	Methylcyclohexane	29	
78-87-5	1,2-Dichloropropane	11	U
75-27-4	Bromodichloromethane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
108-10-1	4-Methyl-2-pentanone	11	U
108-88-3	Toluene	19	
10061-02-6	trans-1,3-Dichloropropene	11	U
79-00-5	1,1,2-Trichloroethane	11	U
127-18-4	Tetrachloroethene	11	U
591-78-6	2-Hexanone	11	U
124-48-1	Dibromochloromethane	11	U
106-93-4	1,2-Dibromoethane	11	U
108-90-7	Chlorobenzene	11	U
100-41-4	Ethylbenzene	14	
1330-20-7	Xylene (total)	14	
100-42-5	Styrene	11	U
75-25-2	Bromoform	11	U
98-82-8	Isopropylbenzene	1	J
79-34-5	1,1,2,2-Tetrachloroethane	11	U
541-73-1	1,3-Dichlorobenzene	11	U
106-46-7	1,4-Dichlorobenzene	11	U
95-50-1	1,2-Dichlorobenzene	11	U
96-12-8	1,2-Dibromo-3-chloropropane	11	U
120-82-1	1,2,4-Trichlorobenzene	11	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E01H9

Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 31180 SAS No.: _____ SDG No.: E01H0

Matrix: (soil/water) SOIL Lab Sample ID: 02110394-010A

Sample wt/vol: 5.64 (g/mL) G Lab File ID: B6153.D

Level: (low/med) LOW Date Received: 11/14/02

% Moisture: not dec. 19 Date Analyzed: 11/20/02

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

CONCENTRATION UNITS:

Number TICs found: 7 (µg/L or µg/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1.		Unknown (5.03)	5.03	72	J
2.		Unknown (5.78)	5.78	7	J
3.	001066-40-6	Silanol, trimethyl-	8.98	68	NJ
4.	000556-67-2	Cyclotetrasiloxane, octamethyl-	19.83	29	BNJ
5.	000611-14-3	Benzene, 1-ethyl-2-methyl-	20.96	7	NJ
6.	000095-63-6	Benzene, 1,2,4-trimethyl-	22.11	6	NJ
7.		Unknown (24.39)	24.38	11	BJ

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E01J0

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 31180 SAS No.: _____ SDG No.: E01H0

Matrix: (soil/water) SOIL Lab Sample ID: 02110394-011A

Sample wt/vol: 5.67 (g/mL) G Lab File ID: B6154.D

Level: (low/med) LOW Date Received: 11/14/02

% Moisture: not dec. 19 Date Analyzed: 11/20/02

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND (µg/L or µg/Kg)	UG/KG	Q
75-71-8	Dichlorodifluoromethane	11	U
74-87-3	Chloromethane	11	U
75-01-4	Vinyl Chloride	11	U
74-83-9	Bromomethane	11	U
75-00-3	Chloroethane	11	U
75-69-4	Trichlorofluoromethane	11	U
75-35-4	1,1-Dichloroethene	11	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	11	U
67-64-1	Acetone	71	B
75-15-0	Carbon Disulfide	11	U
79-20-9	Methyl Acetate	3	BJ
75-09-2	Methylene Chloride	11	U
156-60-5	trans-1,2-Dichloroethene	11	U
1634-04-4	Methyl tert-Butyl Ether	11	U
75-34-3	1,1-Dichloroethane	11	U
156-59-2	cis-1,2-Dichloroethene	11	U
78-93-3	2-Butanone	13	B
67-66-3	Chloroform	11	U
71-55-6	1,1,1-Trichloroethane	11	U
110-82-7	Cyclohexane	5	J
56-23-5	Carbon Tetrachloride	11	U
71-43-2	Benzene	2	J
107-06-2	1,2-Dichloroethane	11	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E01J0

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 31180 SAS No.: _____ SDG No.: E01H0

Matrix: (soil/water) SOIL Lab Sample ID: 02110394-011A

Sample wt/vol: 5.67 (g/mL) G Lab File ID: B6154.D

Level: (low/med) LOW Date Received: 11/14/02

% Moisture: not dec. 19 Date Analyzed: 11/20/02

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/KG	Q
79-01-6	Trichloroethene	11	U
108-87-2	Methylcyclohexane	6	J
78-87-5	1,2-Dichloropropane	11	U
75-27-4	Bromodichloromethane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
108-10-1	4-Methyl-2-pentanone	11	U
108-88-3	Toluene	1	J
10061-02-6	trans-1,3-Dichloropropene	11	U
79-00-5	1,1,2-Trichloroethane	11	U
127-18-4	Tetrachloroethene	11	U
591-78-6	2-Hexanone	11	U
124-48-1	Dibromochloromethane	11	U
106-93-4	1,2-Dibromoethane	11	U
108-90-7	Chlorobenzene	11	U
100-41-4	Ethylbenzene	11	U
1330-20-7	Xylene (total)	11	U
100-42-5	Styrene	11	U
75-25-2	Bromoform	11	U
98-82-8	Isopropylbenzene	11	U
79-34-5	1,1,2,2-Tetrachloroethane	11	U
541-73-1	1,3-Dichlorobenzene	11	U
106-46-7	1,4-Dichlorobenzene	11	U
95-50-1	1,2-Dichlorobenzene	11	U
96-12-8	1,2-Dibromo-3-chloropropane	11	U
120-82-1	1,2,4-Trichlorobenzene	11	U

1F

EPA SAMPLE NO.

E01J0

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 31180 SAS No.: _____ SDG No.: E01H0

Matrix: (soil/water) SOIL Lab Sample ID: 02110394-011A

Sample wt/vol: 5.67 (g/mL) G Lab File ID: B6154.D

Level: (low/med) LOW Date Received: 11/14/02

% Moisture: not dec. 19 Date Analyzed: 11/20/02

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

Number TICs found: 7 CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1.	Unknown (5.03)	5.03	31	J
2.	Unknown (5.33)	5.33	22	J
3.	Unknown (5.78)	5.78	6	J
4.	Unknown (8.99)	8.99	20	J
5. 000541-05-9	Cyclotrisiloxane, hexamethyl-	14.44	8	BNJ
6. 000556-67-2	Cyclotetrasiloxane, octamethyl-	19.84	51	BNJ
7.	Unknown (24.39)	24.38	9	BJ

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E01J1

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 31180 SAS No.: _____ SDG No.: E01H0

Matrix: (soil/water) SOIL Lab Sample ID: 02110394-012A

Sample wt/vol: 5.83 (g/mL) G Lab File ID: B6163.D

Level: (low/med) LOW Date Received: 11/14/02

% Moisture: not dec. 18 Date Analyzed: 11/20/02

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND (µg/L or µg/Kg)	UG/KG	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
67-64-1	Acetone	21	B
75-15-0	Carbon Disulfide	1	J
79-20-9	Methyl Acetate	6	BJ
75-09-2	Methylene Chloride	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl tert-Butyl Ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	4	BJ
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	2	J
56-23-5	Carbon Tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E01J1

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 31180 SAS No.: _____ SDG No.: E01H0

Matrix: (soil/water) SOIL Lab Sample ID: 02110394-012A

Sample wt/vol: 5.83 (g/mL) G Lab File ID: B6163.D

Level: (low/med) LOW Date Received: 11/14/02

% Moisture: not dec. 18 Date Analyzed: 11/20/02

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CONCENTRATION UNITS:

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

1F

EPA SAMPLE NO.

E01J1

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 31180 SAS No.: _____ SDG No.: E01H0

Matrix: (soil/water) SOIL Lab Sample ID: 02110394-012A

Sample wt/vol: 5.83 (g/mL) G Lab File ID: B6163.D

Level: (low/med) LOW Date Received: 11/14/02

% Moisture: not dec. 18 Date Analyzed: 11/20/02

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

CONCENTRATION UNITS:

Number TICs found: 4 (µg/L or µg/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1.		Unknown (5.04)	5.04	16	J
2.	000556-67-2	Cyclotetrasiloxane, octamethyl-	19.85	28	NJ
3.		Unknown (24.39)	24.39	10	BJ
4.		Unknown (29.04)	29.04	6	BJ

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E01J3

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 31180 SAS No.: _____ SDG No.: E01H0

Matrix: (soil/water) SOIL Lab Sample ID: 02110394-013A

Sample wt/vol: 6.45 (g/mL) G Lab File ID: B6166.D

Level: (low/med) LOW Date Received: 11/14/02

% Moisture: not dec. 13 Date Analyzed: 11/20/02

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

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

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E01J3

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 31180 SAS No.: _____ SDG No.: E01H0

Matrix: (soil/water) SOIL Lab Sample ID: 02110394-013A

Sample wt/vol: 6.45 (g/mL) G Lab File ID: B6166.D

Level: (low/med) LOW Date Received: 11/14/02

% Moisture: not dec. 13 Date Analyzed: 11/20/02

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

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

1F

EPA SAMPLE NO.

E01J3

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 31180 SAS No.: _____ SDG No.: E01H0

Matrix: (soil/water) SOIL Lab Sample ID: 02110394-013A

Sample wt/vol: 6.45 (g/mL) G Lab File ID: B6166.D

Level: (low/med) LOW Date Received: 11/14/02

% Moisture: not dec. 13 Date Analyzed: 11/20/02

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

CONCENTRATION UNITS:

Number TICs found: 1 (µg/L or µg/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1. 000556-67-2	Cyclotetrasiloxane, octamethyl-	19.85	9	NJ

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E01J6

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 31180 SAS No.: _____ SDG No.: E01H0

Matrix: (soil/water) WATER Lab Sample ID: 02110394-016A

Sample wt/vol: 5 (g/mL) ML Lab File ID: J9870.D

Level: (low/med) LOW Date Received: 11/15/02

% Moisture: not dec. Date Analyzed: 11/15/02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

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

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E01J6

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 31180 SAS No.: _____ SDG No.: E01H0

Matrix: (soil/water) WATER Lab Sample ID: 02110394-016A

Sample wt/vol: 5 (g/mL) ML Lab File ID: J9870.D

Level: (low/med) LOW Date Received: 11/15/02

% Moisture: not dec. Date Analyzed: 11/15/02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

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

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E01J6

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 31180 SAS No.: _____ SDG No.: E01H0

Matrix: (soil/water) WATER Lab Sample ID: 02110394-016A

Sample wt/vol: 5 (g/mL) ML Lab File ID: J9870.D

Level: (low/med) LOW Date Received: 11/15/02

% Moisture: not dec. Date Analyzed: 11/15/02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

CONCENTRATION UNITS:

Number TICs found: 1 (µg/L or µg/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1.	Unknown	8.42	7	J

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E01J9

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 31180 SAS No.: _____ SDG No.: E01H0

Matrix: (soil/water) WATER Lab Sample ID: 02110394-017A

Sample wt/vol: 5 (g/mL) ML Lab File ID: J9871.D

Level: (low/med) LOW Date Received: 11/15/02

% Moisture: not dec. Date Analyzed: 11/15/02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CONCENTRATION UNITS:

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

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E01J9

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 31180 SAS No.: _____ SDG No.: E01H0

Matrix: (soil/water) WATER Lab Sample ID: 02110394-017A

Sample wt/vol: 5 (g/mL) ML Lab File ID: J9871.D

Level: (low/med) LOW Date Received: 11/15/02

% Moisture: not dec. Date Analyzed: 11/15/02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CONCENTRATION UNITS:

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

1F

EPA SAMPLE NO.

E01J9

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 31180 SAS No.: _____ SDG No.: E01H0

Matrix: (soil/water) WATER Lab Sample ID: 02110394-017A

Sample wt/vol: 5 (g/mL) ML Lab File ID: J9871.D

Level: (low/med) LOW Date Received: 11/15/02

% Moisture: not dec. Date Analyzed: 11/15/02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

CONCENTRATION UNITS:

Number TICs found: 1 (µg/L or µg/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1.	Unknown	10.48	5	J

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E01K3

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 31180 SAS No.: _____ SDG No.: E01H0

Matrix: (soil/water) WATER Lab Sample ID: 02110394-018A

Sample wt/vol: 5 (g/mL) ML Lab File ID: J9872.D

Level: (low/med) LOW Date Received: 11/15/02

% Moisture: not dec. Date Analyzed: 11/15/02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

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

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

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E01K3

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 31180 SAS No.: _____ SDG No.: E01H0

Matrix: (soil/water) WATER Lab Sample ID: 02110394-018A

Sample wt/vol: 5 (g/mL) ML Lab File ID: J9872.D

Level: (low/med) LOW Date Received: 11/15/02

% Moisture: not dec. Date Analyzed: 11/15/02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

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

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E01K3

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 31180 SAS No.: _____ SDG No.: E01H0

Matrix: (soil/water) WATER Lab Sample ID: 02110394-018A

Sample wt/vol: 5 (g/mL) ML Lab File ID: J9872.D

Level: (low/med) LOW Date Received: 11/15/02

% Moisture: not dec. Date Analyzed: 11/15/02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

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

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E01K3MS

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 31180 SAS No.: _____ SDG No.: E01H0

Matrix: (soil/water) WATER Lab Sample ID: 02110394-018B

Sample wt/vol: 5 (g/mL) ML Lab File ID: J9878.D

Level: (low/med) LOW Date Received: 11/15/02

% Moisture: not dec. Date Analyzed: 11/15/02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND (µg/L or µg/Kg)	UG/L	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	51	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
67-64-1	Acetone	1	BJ
75-15-0	Carbon Disulfide	10	U
79-20-9	Methyl Acetate	10	U
75-09-2	Methylene Chloride	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl tert-Butyl Ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	10	U
56-23-5	Carbon Tetrachloride	10	U
71-43-2	Benzene	54	
107-06-2	1,2-Dichloroethane	10	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E01K3MS

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 31180 SAS No.: _____ SDG No.: E01H0

Matrix: (soil/water) WATER Lab Sample ID: 02110394-018B

Sample wt/vol: 5 (g/mL) ML Lab File ID: J9878.D

Level: (low/med) LOW Date Received: 11/15/02

% Moisture: not dec. Date Analyzed: 11/15/02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

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

CAS NO.	COMPOUND	UG/L	Q
79-01-6	Trichloroethene	45	
108-87-2	Methylcyclohexane	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-pentanone	10	U
108-88-3	Toluene	51	
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	53	
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E01K3MSD

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 31180 SAS No.: _____ SDG No.: E01H0

Matrix: (soil/water) WATER Lab Sample ID: 02110394-018C

Sample wt/vol: 5 (g/mL) ML Lab File ID: J9879.D

Level: (low/med) LOW Date Received: 11/15/02

% Moisture: not dec. Date Analyzed: 11/15/02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (μL) Soil Aliquot Volume _____ (μL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND (μg/L or μg/Kg)	UG/L	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	59	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
67-64-1	Acetone	1	BJ
75-15-0	Carbon Disulfide	10	U
79-20-9	Methyl Acetate	10	U
75-09-2	Methylene Chloride	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl tert-Butyl Ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	10	U
56-23-5	Carbon Tetrachloride	10	U
71-43-2	Benzene	54	
107-06-2	1,2-Dichloroethane	10	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E01K3MSD

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 31180 SAS No.: _____ SDG No.: E01H0

Matrix: (soil/water) WATER Lab Sample ID: 02110394-018C

Sample wt/vol: 5 (g/mL) ML Lab File ID: J9879.D

Level: (low/med) LOW Date Received: 11/15/02

% Moisture: not dec. Date Analyzed: 11/15/02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
79-01-6	Trichloroethene	46	
108-87-2	Methylcyclohexane	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-pentanone	10	U
108-88-3	Toluene	54	
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	54	
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E01K5

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 31180 SAS No.: _____ SDG No.: E01H0

Matrix: (soil/water) WATER Lab Sample ID: 02110394-019A

Sample wt/vol: 5 (g/mL) ML Lab File ID: J9873.D

Level: (low/med) LOW Date Received: 11/15/02

% Moisture: not dec. Date Analyzed: 11/15/02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

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

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E01K5

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 31180 SAS No.: _____ SDG No.: E01H0

Matrix: (soil/water) WATER Lab Sample ID: 02110394-019A

Sample wt/vol: 5 (g/mL) ML Lab File ID: J9873.D

Level: (low/med) LOW Date Received: 11/15/02

% Moisture: not dec. Date Analyzed: 11/15/02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

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

1F

EPA SAMPLE NO.

E01K5

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 31180 SAS No.: _____ SDG No.: E01H0

Matrix: (soil/water) WATER Lab Sample ID: 02110394-019A

Sample wt/vol: 5 (g/mL) ML Lab File ID: J9873.D

Level: (low/med) LOW Date Received: 11/15/02

% Moisture: not dec. Date Analyzed: 11/15/02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

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

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E01K6

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 31180 SAS No.: _____ SDG No.: E01H0

Matrix: (soil/water) WATER Lab Sample ID: 02110394-020A

Sample wt/vol: 5 (g/mL) ML Lab File ID: J9880.D

Level: (low/med) LOW Date Received: 11/15/02

% Moisture: not dec. Date Analyzed: 11/15/02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CONCENTRATION UNITS:

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

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E01K6

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 31180 SAS No.: _____ SDG No.: E01H0

Matrix: (soil/water) WATER Lab Sample ID: 02110394-020A

Sample wt/vol: 5 (g/mL) ML Lab File ID: J9880.D

Level: (low/med) LOW Date Received: 11/15/02

% Moisture: not dec. Date Analyzed: 11/15/02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CONCENTRATION UNITS:

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

1F

EPA SAMPLE NO.

E01K6

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 31180 SAS No.: _____ SDG No.: E01H0

Matrix: (soil/water) WATER Lab Sample ID: 02110394-020A

Sample wt/vol: 5 (g/mL) ML Lab File ID: J9880.D

Level: (low/med) LOW Date Received: 11/15/02

% Moisture: not dec. Date Analyzed: 11/15/02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

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

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E01K7

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 31180 SAS No.: _____ SDG No.: E01H0

Matrix: (soil/water) WATER Lab Sample ID: 02110394-021A

Sample wt/vol: 5 (g/mL) ML Lab File ID: J9875.D

Level: (low/med) LOW Date Received: 11/15/02

% Moisture: not dec. Date Analyzed: 11/15/02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CONCENTRATION UNITS:

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

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E01K7

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 31180 SAS No.: _____ SDG No.: E01H0

Matrix: (soil/water) WATER Lab Sample ID: 02110394-021A

Sample wt/vol: 5 (g/mL) ML Lab File ID: J9875.D

Level: (low/med) LOW Date Received: 11/15/02

% Moisture: not dec. Date Analyzed: 11/15/02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

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

1F

EPA SAMPLE NO.

E01K7

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 31180 SAS No.: _____ SDG No.: E01H0

Matrix: (soil/water) WATER Lab Sample ID: 02110394-021A

Sample wt/vol: 5 (g/mL) ML Lab File ID: J9875.D

Level: (low/med) LOW Date Received: 11/15/02

% Moisture: not dec. Date Analyzed: 11/15/02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

CONCENTRATION UNITS:

Number TICs found: 1 (µg/L or µg/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1.	Unknown	10.48	6	J

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E01K8

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 31180 SAS No.: _____ SDG No.: E01H0

Matrix: (soil/water) WATER Lab Sample ID: 02110394-022A

Sample wt/vol: 5 (g/mL) ML Lab File ID: J9876.D

Level: (low/med) LOW Date Received: 11/15/02

% Moisture: not dec. Date Analyzed: 11/15/02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CONCENTRATION UNITS:

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

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E01K8

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 31180 SAS No.: _____ SDG No.: E01H0

Matrix: (soil/water) WATER Lab Sample ID: 02110394-022A

Sample wt/vol: 5 (g/mL) ML Lab File ID: J9876.D

Level: (low/med) LOW Date Received: 11/15/02

% Moisture: not dec. Date Analyzed: 11/15/02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

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

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E01K8

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 31180 SAS No.: _____ SDG No.: E01H0

Matrix: (soil/water) WATER Lab Sample ID: 02110394-022A

Sample wt/vol: 5 (g/mL) ML Lab File ID: J9876.D

Level: (low/med) LOW Date Received: 11/15/02

% Moisture: not dec. Date Analyzed: 11/15/02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

CONCENTRATION UNITS:

Number TICs found: 1 (µg/L or µg/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1.	Unknown	10.47	5	J

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKBD

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 31180 SAS No.: _____ SDG No.: E01H0

Matrix: (soil/water) SOIL Lab Sample ID: 02110394-015A

Sample wt/vol: 5 (g/mL) G Lab File ID: B6141.D

Level: (low/med) LOW Date Received: 11/14/02

% Moisture: not dec. 0 Date Analyzed: 11/19/02

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND (µg/L or µg/Kg)	UG/KG	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	2	J
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
67-64-1	Acetone	11	
75-15-0	Carbon Disulfide	3	J
79-20-9	Methyl Acetate	9	J
75-09-2	Methylene Chloride	6	J
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl tert-Butyl Ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	3	J
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	10	U
56-23-5	Carbon Tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKBD

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 31180 SAS No.: _____ SDG No.: E01H0

Matrix: (soil/water) SOIL Lab Sample ID: 02110394-015A

Sample wt/vol: 5 (g/mL) G Lab File ID: B6141.D

Level: (low/med) LOW Date Received: 11/14/02

% Moisture: not dec. 0 Date Analyzed: 11/19/02

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

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

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKBD

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 31180 SAS No.: _____ SDG No.: E01H0

Matrix: (soil/water) SOIL Lab Sample ID: 02110394-015A

Sample wt/vol: 5 (g/mL) G Lab File ID: B6141.D

Level: (low/med) LOW Date Received: 11/14/02

% Moisture: not dec. 0 Date Analyzed: 11/19/02

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

Number TICs found: 3 CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1.	000541-05-9	Cyclotrisiloxane, hexamethyl-	14.45	32	NJ
2.	000556-67-2	Cyclotetrasiloxane, octamethyl-	19.85	41	NJ
3.		Unknown (24.39)	24.39	24	J

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKBE

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 31180 SAS No.: _____ SDG No.: E01H0

Matrix: (soil/water) SOIL Lab Sample ID: 02110394-015B

Sample wt/vol: 5 (g/mL) G Lab File ID: B6161.D

Level: (low/med) LOW Date Received: 11/14/02

% Moisture: not dec. 0 Date Analyzed: 11/20/02

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
67-64-1	Acetone	12	
75-15-0	Carbon Disulfide	10	U
79-20-9	Methyl Acetate	6	J
75-09-2	Methylene Chloride	2	J
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl tert-Butyl Ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	1	J
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	10	U
56-23-5	Carbon Tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKBE

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 31180 SAS No.: _____ SDG No.: E01H0

Matrix: (soil/water) SOIL Lab Sample ID: 02110394-015B

Sample wt/vol: 5 (g/mL) G Lab File ID: B6161.D

Level: (low/med) LOW Date Received: 11/14/02

% Moisture: not dec. 0 Date Analyzed: 11/20/02

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

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

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKBE

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 31180 SAS No.: _____ SDG No.: E01H0

Matrix: (soil/water) SOIL Lab Sample ID: 02110394-015B

Sample wt/vol: 5 (g/mL) G Lab File ID: B6161.D

Level: (low/med) LOW Date Received: 11/14/02

% Moisture: not dec. 0 Date Analyzed: 11/20/02

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

Number TICs found: 2 CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1.	Unknown (24.39)	24.39	25	J
2.	Unknown (29.04)	29.04	13	J

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKJV

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 31180 SAS No.: _____ SDG No.: E01H0

Matrix: (soil/water) WATER Lab Sample ID: 02110394-023A

Sample wt/vol: 5 (g/mL) ML Lab File ID: J9869.D

Level: (low/med) LOW Date Received: 11/15/02

% Moisture: not dec. Date Analyzed: 11/15/02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CONCENTRATION UNITS:

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

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKJV

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 31180 SAS No.: _____ SDG No.: E01H0

Matrix: (soil/water) WATER Lab Sample ID: 02110394-023A

Sample wt/vol: 5 (g/mL) ML Lab File ID: J9869.D

Level: (low/med) LOW Date Received: 11/15/02

% Moisture: not dec. Date Analyzed: 11/15/02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

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

1F

EPA SAMPLE NO.

VBLKJV

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 31180 SAS No.: _____ SDG No.: E01H0

Matrix: (soil/water) WATER Lab Sample ID: 02110394-023A

Sample wt/vol: 5 (g/mL) ML Lab File ID: J9869.D

Level: (low/med) LOW Date Received: 11/15/02

% Moisture: not dec. Date Analyzed: 11/15/02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

CONCENTRATION UNITS:

Number TICs found: 1 (µg/L or µg/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1. 000075-07-0	Acetaldehyde	5.43	27	NJ

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VHBLKBA

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 31180 SAS No.: _____ SDG No.: E01H0

Matrix: (soil/water) SOIL Lab Sample ID: 02110394-014A

Sample wt/vol: 5 (g/mL) G Lab File ID: B6167.D

Level: (low/med) LOW Date Received: 11/14/02

% Moisture: not dec. 0 Date Analyzed: 11/20/02

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CONCENTRATION UNITS:

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

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VHBLKBA

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 31180 SAS No.: _____ SDG No.: E01H0

Matrix: (soil/water) SOIL Lab Sample ID: 02110394-014A

Sample wt/vol: 5 (g/mL) G Lab File ID: B6167.D

Level: (low/med) LOW Date Received: 11/14/02

% Moisture: not dec. 0 Date Analyzed: 11/20/02

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

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

1F

EPA SAMPLE NO.

VHBLKBA

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 31180 SAS No.: _____ SDG No.: E01H0

Matrix: (soil/water) SOIL Lab Sample ID: 02110394-014A

Sample wt/vol: 5 (g/mL) G Lab File ID: B6167.D

Level: (low/med) LOW Date Received: 11/14/02

% Moisture: not dec. 0 Date Analyzed: 11/20/02

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

CONCENTRATION UNITS:

Number TICs found: 2 (µg/L or µg/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1. 000556-67-2	Cyclotetrasiloxane, octamethyl-	19.85	16	NJ
2.	Unknown (24.39)	24.39	28	BJ

From: "Brown, Jessica" <Jessica.Brown@dyncorp.com>
To: "Erica Yates (E-mail)" <eyates@claytongrp.com>
Date: Friday, November 15, 2002 4:29:51 PM
Subject: Region 05 | Case 31180 | Lab CLAYTN | SDG E01H0 | Issue TR/COC discrepancy - sample level | FINAL

Hi Erica,

Per Region 5, please note the discrepancy in the SDG narrative and proceed with analyzing sample E01K3 as the aqueous QC for Case 31180.

Thanks,
Jessica

11/15/02 4:21PM Jessica Brown, SMO, spoke with Howard Pham, USEPA Region 5 RSCC, concerning Case 31180. CLAYTN should note the discrepancy in the SDG narrative and proceed with analyzing sample E01K3 as the QC for Case 31180.

-----Original Message-----
From: Brown, Jessica
Sent: Friday, November 15, 2002 2:27 PM
To: Bob Casper (E-mail); Mark Wagner (E-mail 2); Carlene Thomas (E-mail); Howard Pham (Alt Loc) (E-mail); Howard Pham (E-mail)
Subject: Region 05 | Case 31180 | Lab CLAYTN | SDG E01H0 | Issue TR/COC discrepancy - sample level

The following is an e-mail from CLAYTN concerning Case 31180. Please advise on how the lab should proceed with sample E01K3.

Thanks,
Jessica

-----Original Message-----
From: Erica Yates [mailto:EYates@claytongrp.com]
Sent: Friday, November 15, 2002 10:41 AM
To: Brown, Jessica
Subject: Case 31180, Region V, SDG E01H0

Hi Jessica:

We received the remainder of samples for case 31180, SDG E01H0 today. One set of samples was not listed on the COC - sample E01K3; a water VOA sample. This sample also happens to be the QC for the water matrix.

Could you please let us know if this sample should be added to the COC and analyzed as the water VOA QC.

Thank you very much Jessica.

Thank you,

Erica Yates
Clayton Group Services
CLP DCO/Data Analyst

From: "Brown, Jessica" <Jessica.Brown@dyncorp.com>
Date: Mon, Nov 18, 2002 10:45 AM
Subject: FW: Case 31180

FYI -

-----Original Message-----
From: Jerry Willman [mailto:Jerry.Willman@epa.state.il.us]
Sent: Monday, November 18, 2002 10:42 AM
To: Brown, Jessica
Subject: Re: Case 31180

Yes, the times were written in on the originals, which will go out with this morning's mail.

Thanks

>>> "Brown, Jessica" <Jessica.Brown@dyncorp.com> 11/18/02 09:39AM >>>
Hi Jerry - I received a copy of the TR/COCs for Case 31180 with the sample
collection times for sample ME01K3 and E01K3. Will these times be on the
copies sent to the labs?

Thank you.

Jessica Brown
DynCorp Systems & Solutions LLC
CLP Coordinator for Regions 4, 5, & 8
jessica.brown@dyncorp.com
Ph: 703.264.9349; Fax: 703.264.9222

From: "Brown, Jessica" <Jessica.Brown@dyncorp.com>
To: "Karen Coonan (E-mail)" <Kcoonan@claytongrp.com>, ...
Date: Mon, Nov 18, 2002 4:05 PM
Subject: Region 05 | Case 31180 | Lab CLAYTN | Issue TR/COC discrepancy - sample level | FINAL

Hi Karen,

Per Region 5, please note the TR/COC discrepancy in the SDG narrative and proceed.

Thanks,
Jessica

11/18/02 3:59PM Jessica Brown, SMO, spoke with Carlene Thomas, USEPA Region V, concerning Case 31180. CLAYTN may note the TR/COC discrepancy in the SDG narrative and proceed.

> -----Original Message-----
> From: Brown, Jessica
> Sent: Monday, November 18, 2002 10:30 AM
> To: Carlene Thomas (E-mail); Howard Pham (Alt Loc) (E-mail); Howard Pham
> (E-mail)
> Subject: Region 05 | Case 31180 | Lab CLAYTN | Issue TR/COC
> discrepancy - sample level
>
> Hi Carlene,
>
> On Friday, 11/15/02, the IL-EPA reported to SMO that the TR/COC for sample
> E01K3 was not shipped to CLAYTN under Case 31180. SMO received a copy of
> the TR/COC from the IL-EPA and faxed it to the lab. A hard copy will be
> mailed from the IL-EPA to CLAYTN.
>
> Please advise.
>
> Thanks,
> Jessica
>
> 11/18/02 10:22AM Jessica Brown, SMO, spoke with Karen Coonan,
> CLAYTN, concerning Case 31180. The lab received the faxed copy of the
> TR/COC for sample E01K3. This TR/COC was not received at the lab with the
> other TR/COCs.
>
> 11/15/02 5:43PM Jessica Brown, SMO, spoke with Jerry Willman,
> IL-EPA, concerning Case 31180. The TR/COC for sample E01K3 was not
> shipped to CLAYTN. The IL-EPA will fax the TR/COC to SMO who will fax the
> TR/COC to CLAYTN. A hard copy will be mailed to CLAYTN.
>
> Jessica Brown
> DynCorp Systems & Solutions LLC
> CLP Coordinator for Regions 4, 5, & 8
> jessica.brown@dyncorp.com
> Ph: 703.264.9349; Fax: 703.264.9222
>

CC: "Jerry Willman (E-mail)" <Jerry.Willman@epa.state....

From: "Brown, Jessica" <Jessica.Brown@dyncorp.com>
To: "Erica Yates (E-mail)" <eyates@claytongrp.com>, "K...
Date: Monday, November 18, 2002 11:51:03 AM
Subject: Case 31180 - Encore samples

Hi Erica and Karen,

FYI - Per the IL-EPA, on 11/13/02 for samples E01H0 - E01H8, the analysis should have been 2 bottles, both for VOA analysis, rather than 1 for dry weight and 1 for VOA. The dry weight analysis is only necessary for Encores.

Let me know if you have any questions.

Jessica

-----Original Message-----
From: Jerry Willman [mailto:Jerry.Willman@epa.state.il.us]
Sent: Monday, November 18, 2002 11:19 AM
To: Brown, Jessica
Subject: Re: Case 31180 - Encore samples

Jessica:

On 11/13/02, a total of 13 LS VOA - 4 were Encore samples
On 11/14/02, a total of 2 LS VOA shipped - 2 were Encore samples.

I see now where your questions stems from. On 11/13/02 for samples E01H0 - E01H8, the analysis should have been 2 bottles, both for VOA analysis, rather than 1 for dry weight and 1 for VOA. The dry weight analysis is only necessary for Encores. Would you please inform clayton of my error?

Thank You.

> -----Original Message-----
> From: Brown, Jessica
> Sent: Monday, November 18, 2002 11:02 AM
> To: Jerry Willman (E-mail)
> Subject: Case 31180 - Encore samples
>
> Case 31180 was requested for 5 LS VOA Encores and 8 LS VOA Non-Encores.
> On 11/13/02, a total of 13 LS VOA - how many of the samples are Encore
> samples? On 11/14/02. a total of 2 LS VOA shipped - how many of the
> samples are Encore samples?
>
> Thank you for your help.
>
> Jessica Brown
> DynCorp Systems & Solutions LLC
> CLP Coordinator for Regions 4, 5, & 8
> jessica.brown@dyncorp.com
> Ph: 703.264.9349; Fax: 703.264.9222
>

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V
ESD Central Regional Laboratory
Data Tracking Form for Contract Samples

Sample Delivery Group: SDHD CERCLIS No: ILD 981196656

Case No: 3115C Site Name/Location: Dixon Municipal LF

Contractor or EPA Lab: Clayton Data User: IEPA

No. of Samples: 20 Date Sampled or Date Received: 12-2-02

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: 20 No. of samples received: 20

Received by: Ena M. Dixon/ESAT Date: 12-2-02

Received by LSSS: Ena M. Dixon/ESAT Date: 12-2-02

Review started: ____ Reviewer Signature: ____

Total time spent on review: ____ Date review completed: ____

Copied by: Ena M. Dixon/ESAT Date: 12-5-02

Mailed to user by: Ena M. Dixon/ESAT Date: 12-5-02

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.

____
____

Sender [illegible] Data Mgmt. Coordinator for Form: Date: ____

DATE: December 5, 2002

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

Attn: Bob Casper

SITE NAME: Dixon Municipal Landfill

CASE NO.	LAB	NO. OF SAMPLES	SDG	MATRIX
31180	Clayton	2	E01J8	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

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

RECEIVED
DEC 1 1 2002
IEPA-BOL-FSRS

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V
SUPERFUND DIVISION

DATE: _____

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

Received for Review on December 2, 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: Dixon Municipal LF, (IL)

CASE NUMBER: 31180 SDG NUMBER: E01J8

Number and Type of Samples: 2 (soils)

Sample Numbers: E01J8 and E01L3

Laboratory: Clayton Hrs. for Review: _____

Following are our findings:

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

Case Number : 31180
Si' lame: Dixon Municipal LF, (IL)

SDG Number: E01J8
Laboratory: Clayton

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

Two (2) soil samples, numbered E01J8 and E01L3, were collected on November 14, 2002. The lab received the samples on November 15, 2002 in good condition. All samples were analyzed only for the volatile list of organic analytes. All were analyzed according to CLP SOW OLM04.2 5/99.

Case Number : 31180 **SDG Number: E01J8**
Site Name: Dixon Municipal LF, (IL) **Laboratory: Clayton**

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 corresponding initial calibration has percent relative standard deviation (%RSD) outside primary criteria. Hits are qualified "J" and non-detects are flagged "UJ".

Acetone
E01J8, E01J8MS, E01J8MSD, E01L3, VBLKBE, VBLKBF, VHBLKBA

Methyl Acetate
E01J8, E01J8MS, E01J8MSD, E01L3, VBLKBE, VBLKBF, VHBLKBA

DC-8 The following volatile samples are associated with a continuing calibration percent difference (%D) outside primary criteria. Hits are qualified "J" and non-detects are qualified "UJ".

Dichlorodifluoromethane, Bromomethane, Acetone, 2-Butanone, 2-Hexanone, 1,2-Dibromo-3-chloropropane
VBLKBF, VHBLKBA

Chloromethane, Vinyl Chloride
E01J8, E01J8MS, E01J8MSD, E01L3, VBLKBE

4. BLANKS

DC-6 The following volatile samples have analyte concentrations reported above the CRQL and less than or equal to ten times (10X) the associated method blank concentration. Hits are qualified "U" and non-detects are not flagged.

Acetone
E01J8, E01J8MS, E01J8MSD, E01L3

DC-12 The following volatile samples have analyte concentrations reported below the CRQL and less than or equal to five times (5X) the associated method blank concentration. Reported sample concentrations have been elevated to the CRQL. Hits are qualified "U" and non-detects are not flagged.

Case Number : 31180
Sit 'ame: Dixon Municipal LF, (IL)

SDG Number: E01J8
Laboratory: Clayton

Methyl Acetate
E01J8, E01J8MSD, E01L3

DC-13 The following volatile samples have analyte concentrations reported below the CRQL and less than or equal to ten times (10X) the associated method blank concentration. Reported sample concentrations have been elevated to the CRQL. Hits are qualified "U" and non-detects are not flagged.

Methylene Chloride
E01J8, E01J8MS, E01J8MSD

2-Butanone
E01J8, E01J8MS, E01J8MSD, E01L3

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

Chloromethane, Methylene Chloride
E01J8, E01J8MS, E01J8MSD

Acetone
E01J8, E01J8MS, E01J8MSD, E01L3

Methyl Acetate
E01J8, E01J8MSD, E01L3

5. SYSTEM MONITORING COMPOUND AND SURROGATE RECOVERY

No defects found.

6. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

DC-2 The relative percent difference (RPD) between the following volatile matrix spike and matrix spike duplicate recoveries is outside criteria. Results for the outlier compound(s) in the unspiked sample E01J8 are estimated, "J" and non-detects are estimated, "UJ"

E01J8MS, E01J8MSD
1,1-Dichloroethene

7. FIELD BLANK AND FIELD DUPLICATE

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

Case Number : 31180
Site Name: Dixon Municipal LF, (IL)

SDG Number: E01J8
Laboratory: Clayton

8. INTERNAL STANDARDS

No defects found.

9. COMPOUND IDENTIFICATION

After reviewing the mass spectra and chromatograms it appears that all VOA compounds were properly identified.

10. COMPOUND QUANTITATION AND REPORTED DETECTION LIMITS

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

E01J8, E01J8MS, E01J8MSD
Chloromethane

E01L3
Cyclohexane, Benzene, Methylcyclohexane, Toluene, Ethylbenzene, Xylenes (total)

VBLKBE
Methyl Acetate, Methylene Chloride, 2-Butanone, 2-Hexanone

VBLKBF
Chloromethane, Carbon Disulfide, Methyl Acetate, Methylene Chloride, 2-Butanone, 2-Hexanone, 1,4-Dichlorobenzene

VHBLKBA
Chloromethane, Acetone, Methyl Acetate, Methylene Chloride

11. SYSTEM PERFORMANCE

GC/MS baseline indicated acceptable performance.

12. ADDITIONAL INFORMATION

DC-2 Verification of non-detected results and assignment of "U" qualifier when the reported value is less than CRQL.

E01J8, E01J8MS, E01J8MSD, E01L3, VBLKBE, VBLKBF, VHBLKBA

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 #: 31180 SDG : E01J8
Site : DIXON MUNICIPAL LANDFILL
Lab : CLAYTN
Reviewer :
Date :

Number of Soil Samples : 2
Number of Water Samples : 0

Sample Number :	E01J8		E01J8MS		E01J8MSD		E01L3		VBLKBE	
Sampling Location :	X102		X102		X102		X105			
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	11/14/2002		11/14/2002		11/14/2002		11/14/2002			
Time Sampled :	10:55		10:55		10:55					
%Moisture :	13		13		13		19		N/A	
pH	0		0		0		0		0	
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	10	U	10	U	10	U	10	U	10	U
Chloromethane	2	J	1	J	1	J	10	UJ	10	UJ
Vinyl Chloride	10	UJ	10	UJ	10	UJ	10	UJ	10	UJ
Bromomethane	10	U	10	U	10	U	10	U	10	U
Chloroethane	10	U	10	U	10	U	10	U	10	U
Trichlorofluoromethane	10	U	10	U	10	U	10	U	10	U
1,1-Dichloroethene	10	UJ	42		34		10	U	10	U
1,1,2-Trichloro-1,2,2-trifluoroethane	10	U	10	U	10	U	10	U	10	U
Acetone	19	UJ	25	UJ	26	UJ	18	UJ	12	J
Carbon Disulfide	10	U	10	U	10	U	10	U	10	U
Methyl Acetate	10	UJ	10	UJ	10	UJ	10	UJ	6	J
Methylene Chloride	10	UJ	10	UJ	10	UJ	10	U	2	J
trans-1,2-Dichloroethene	10	U	10	U	10	U	10	U	10	U
Methyl tert-Butyl Ether	10	U	10	U	10	U	10	U	10	U
1,1-Dichloroethane	10	U	10	U	10	U	10	U	10	U
cis-1,2-Dichloroethene	10	U	10	U	10	U	10	U	10	U
2-Butanone	10	UJ	10	UJ	10	UJ	10	UJ	1	J
Chloroform	10	U	10	U	10	U	10	U	10	U
1,1,1-Trichloroethane	10	U	10	U	10	U	10	U	10	U
Cyclohexane	10	U	10	U	10	U	3	J	10	U
Carbon Tetrachloride	10	U	10	U	10	U	10	U	10	U
Benzene	10	U	44		40		2	J	10	U
1,2-Dichloroethane	10	U	10	U	10	U	10	U	10	U
Trichloroethene	10	U	40		35		10	U	10	U
Methylcyclohexane	10	U	10	U	10	U	4	J	10	U
1,2-Dichloropropane	10	U	10	U	10	U	10	U	10	U
Bromodichloromethane	10	U	10	U	10	U	10	U	10	U
cis-1,3-Dichloropropene	10	U	10	U	10	U	10	U	10	U
4-Methyl-2-pentanone	10	U	10	U	10	U	10	U	10	U
Toluene	10	U	44		40		3	J	10	U
trans-1,3-Dichloropropene	10	U	10	U	10	U	10	U	10	U
1,1,2-Trichloroethane	10	U	10	U	10	U	10	U	10	U
Tetrachloroethene	10	U	10	U	10	U	10	U	10	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 #: 31180 SDG : E01J8
Site : DIXON MUNICIPAL LANDFILL
Lab. : CLAYTN
Reviewer :

Sample Number :	E01J8		E01J8MS		E01J8MSD		E01L3		VBLKBE	
Sampling Location :	X102		X102		X102		X105			
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	11/14/2002		11/14/2002		11/14/2002		11/14/2002			
Time Sampled :	10:55		10:55		10:55					
%Moisture :	13		13		13		19		N/A	
pH :	0		0		0		0		0	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2-Hexanone	10	U	10	U	10	U	10	U	2	J
Dibromochloromethane	10	U	10	U	10	U	10	U	10	U
1,2-Dibromoethane	10	U	10	U	10	U	10	U	10	U
Chlorobenzene	10	U	43		39		10	U	10	U
Ethylbenzene	10	U	10	U	10	U	1	J	10	U
Xylenes (total)	10	U	10	U	10	U	2	J	10	U
Styrene	10	U	10	U	10	U	10	U	10	U
Bromoform	10	U	10	U	10	U	10	U	10	U
Isopropylbenzene	10	U	10	U	10	U	10	U	10	U
1,1,2,2-Tetrachloroethane	10	U	10	U	10	U	10	U	10	U
1,3-Dichlorobenzene	10	U	10	U	10	U	10	U	10	U
1,4-Dichlorobenzene	10	U	10	U	10	U	10	U	10	U
1,2-Dichlorobenzene	10	U	10	U	10	U	10	U	10	U
1,2-Dibromo-3-chloropropane	10	U	10	U	10	U	10	U	10	U
1,2,4-Trichlorobenzene	10	U	10	U	10	U	10	U	10	U

Analytical Results (Qualified Data)

Case #: 31180 SDG : E01J8
Site : DIXON MUNICIPAL LANDFILL
Lab. : CLAYTN
Reviewer :
Date :

Sample Number :	VBLKBF		VHBLKBA							
Sampling Location :										
Matrix :	Soil		Soil							
Units :	ug/Kg		ug/Kg							
Date Sampled :										
Time Sampled :										
%Moisture :	N/A		0							
pH :	0		0							
Dilution Factor :	1.0		1.0							
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	10	UJ	10	UJ						
Chloromethane	2	J	2	J						
Vinyl Chloride	10	U	10	U						
Bromomethane	10	UJ	10	UJ						
Chloroethane	10	U	10	U						
Trichlorofluoromethane	10	U	10	U						
1,1-Dichloroethene	10	U	10	U						
1,1,2-Trichloro-1,2,2-trifluoroethane	10	U	10	U						
Acetone	10	J	9	J						
Carbon Disulfide	1	J	10	U						
Methyl Acetate	6	J	5	J						
Methylene Chloride	2	J	2	J						
trans-1,2-Dichloroethene	10	U	10	U						
Methyl tert-Butyl Ether	10	U	10	U						
1,1-Dichloroethane	10	U	10	U						
cis-1,2-Dichloroethene	10	U	10	U						
2-Butanone	2	J	10	UJ						
Chloroform	10	U	10	U						
1,1,1-Trichloroethane	10	U	10	U						
Cyclohexane	10	U	10	U						
Carbon Tetrachloride	10	U	10	U						
Benzene	10	U	10	U						
1,2-Dichloroethane	10	U	10	U						
Trichloroethene	10	U	10	U						
Methylcyclohexane	10	U	10	U						
1,2-Dichloropropane	10	U	10	U						
Bromodichloromethane	10	U	10	U						
cis-1,3-Dichloropropene	10	U	10	U						
4-Methyl-2-pentanone	10	U	10	U						
Toluene	10	U	10	U						
trans-1,3-Dichloropropene	10	U	10	U						
1,1,2-Trichloroethane	10	U	10	U						
Tetrachloroethene	10	U	10	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 #: 31180 SDG : E01J8
Site : DIXON MUNICIPAL LANDFILL
Lab. : CLAYTN
Reviewer :
Date :

Sample Number :	VBLKBF		VHBLKBA							
Sampling Location :										
Matrix :	Soil		Soil							
Units :	ug/Kg		ug/Kg							
Date Sampled :										
Time Sampled :										
%Moisture :	N/A		0							
pH :	0		0							
Dilution Factor :	1.0		1.0							
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2-Hexanone	2	J	10	UJ						
Dibromochloromethane	10	U	10	U						
1,2-Dibromoethane	10	U	10	U						
Chlorobenzene	10	U	10	U						
Ethylbenzene	10	U	10	U						
Xylenes (total)	10	U	10	U						
Styrene	10	U	10	U						
Bromoform	10	U	10	U						
Isopropylbenzene	10	U	10	U						
1,1,2,2-Tetrachloroethane	10	U	10	U						
1,3-Dichlorobenzene	10	U	10	U						
1,4-Dichlorobenzene	1	J	10	U						
1,2-Dichlorobenzene	10	U	10	U						
1,2-Dibromo-3-chloropropane	10	UJ	10	UJ						
1,2,4-Trichlorobenzene	10	U	10	U						

Regional Transmittal Form

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE:

SUBJECT: Review of Data
Received for Review on 12-2-02

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: [illegible] MUNICIPAL LF (IL)

CASE NUMBER: 31150 SDG NUMBER: E01J5

Number and Type of Samples: 2 (SOIL)

Sample Numbers: E01J5 E01L3

Laboratory: CHECTON Hrs for Review:

Following are our findings:

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

Sample Delivery Group (SDG)
Traffic Report (TR) Cover Sheet

SDG Number E01J8

Laboratory Name Clayton Group Services, Inc. Laboratory Code CLAYTN

Contract No. 68-W-99069 Case No. 31180

Analysis Price $ 539.00 SDG Turnaround 21 Day

EPA Sample Numbers in SDG (Listed in Alpha Numeric Order)

1)	E01J8*	7)		13)		19)	
2)	E01L3	8)		14)		20)	
3)		9)		15)		21)	
4)		10)		16)		22)	
5)		11)		17)		23)	
6)		12)		18)		24)	

*MS/MSD

E01J8	E01L3
First Sample in SDG	Last Sample in SDG
11/15/02	11/15/02
First Sample Receipt Date	Last Sample Receipt Date

SDG closed 11/15/02

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 [illegible]

USEPA Contract Laboratory Program
Organic Traffic Report

Case No: 31180
DAS No:
SDG No: E01J5

L

Date Shipped: 11/14/02 Carrier Name: UPS Airbill: 1262158922100218 96 Shipped to: Clayton Environmental Consultants, Inc 22345 Roethel Drive Novi MI 48375 (248) 344-1770	Date Received/Received by: [illegible] Lab Contract No: [illegible] Unit Price: [illegible] Transfer To: Date Received/Received By: Lab Contract No: Price:	Sampler (Signature): Jerry Willman	
		Relinquished By: Jerry Willman	Date / Time: 11-14-02/1720
		Relinquished By:	Date / Time:
		Relinquished By:	Date / Time: 11-15-02 9:33

Received By:
Received By:
Received By: [illegible]

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
E01J6	Ground Water/ Jerry Willman	L/G	VOA (21)	5-66718 (HCL), 5-66719 (HCL) (2)	Trip Blank	11/14/02 11:45		
E01J8	Soil/Sediment/ Jerry Willman	L/G	Dry Wt (21), VOA (21)	5-66722 (HCL), 5-66723 (HCL), 5-66724 (HCL), 5-66726 (Ice Only) (4)	X102	11/14/02 10:55	ME01J8	
E01J9	Ground Water/ Jerry Willman	L/G	VOA (21)	5-66727 (HCL), 5-66728 (HCL) (2)	G106 Field Blank	11/14/02 11:30	ME01J9	
E01K5	Ground Water/ Jerry Willman	L/G	VOA (21)	5-66754 (HCL), 5-66755 (HCL) (2)	G103	11/14/02 9:32	ME01K5	
E01K6	Ground Water/ Jerry Willman	L/G	VOA (21)	5-66756 (HCL), 5-66757 (HCL) (2)	G103 D	11/14/02 9.32	ME01K6	
E01K7	Ground Water/ Jerry Willman	L/G	VOA (21)	5-66758 (HCL), 5-66759 (HCL) (2)	G104	11/13/02 15 30		
E01K8	Ground Water/ Jerry Willman	L/G	VOA (21)	5-66760 (HCL), 5-66761 (HCL) (2)	G102	11/14/02 11:50	ME01K8	
E01L3	Soil/Sediment/ Jerry Willman	L/G	Dry Wt. (21), VOA (21)	5-66221 (Ice Only), 5-66773 (Ice Only) (2)	X105	11/14/02	ME01L3	

3003

COPY
Original Documents
are in CSF [illegible] 11/15/02

Shipment for Case Complete? Y	Sample(s) to be used for laboratory QC: E01J8	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 1.1°C	Chain of Custody Seal Number: 22622, [illegible]
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? Shipment Iced?
Dry Wt = Dry Weight, VOA = CLP TCL Volatiles				

ER 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: 5-324306854-111402-0003

SDG NARRATIVE

Lab Name: Clayton Group Services (CLAYTN)

Contract No.: 68-W-99-069

Case No.: 31180

SDG No.: E01J8

Clayton Work Order No.: 2110442
DO#: 3
Turnaround Requirements: 21 Day

	EPA Sample Number	Matrix	Analysis
1	E01J8 *	Soil	VOA
2	E01L3	Soil	VOA

*MS/MSD

Sample Information

Sample E01J8 was designated as the MS/MSD for the soil samples.

Shipment Information

Two soil samples for VOA analysis were received on November 15, 2002, under UPS airbill no. 1Z621-5892-2100-21896. The samples were received intact. The temperature of the cooler was 7.7°C.

Date Recv'd:	Cooler #:	Airbill #:	Sample ID:	Temperature (C):*
11/15/02	1	1Z621-5892-2100-21896	E01J8, E01L3	7.7

*A temperature blank was provided, however it was located at the bottom of the cooler. According to the SOW, the temperature should be measured "prior to unpacking the samples or removing the packing material". The temperature blank was not used; the temperature was measured using an IR gun to comply with SOW requirements.

Analytical Information

VOA

Each VOA sample was collected in Encores. The Encores were prepared following the EPA 5035 method, upon arrival at the laboratory. The EPA 5035 sample weight worksheet, with the date prepared, is included in the Back End.

The Relative Percent Difference between samples E01J8MS and E01J8MSD, for the compound 1,1-Dichloroethene, was over the advisory limit.

Lab Name: Clayton Group Services (CLAYTN) Contract No.: 68-W-99-069

Case No.: 31180 SDG No.: E01J8 Clayton Work Order No.: 2110442

GC Columns

Instrument ID	Column Serial #	Brand Name	Internal Diameter (mm)	Length (Meters)	Coating Material	Film Thickness (µm)
VOA						
MS-HP2B	465841	Restek	0.25	60	RTX-624	1.4

VOA Traps

Trap Name	Packing Material/ Brand Name	Composition	Amount Length (cm)
Supelco Purge & Trap K	Supelco	Carbopak B	10 cm
Vocarb 3000		Carboxen 1000	6 cm
		Carboxen 1001	1 cm

Tentatively Identified Alkanes of Volatiles Analysis

EPA Sample No.	n-Alkane (ug/Kg)	Branched Alkane (ug/Kg)	Cyclic Alkane (ug/Kg)
E01J8	0	0	0
E01J8MS			
E01J8MSD			
E01L3	16	34	0
VBLKBE	0	0	0
VBLKBF	0	0	0
VHBLKBA	0	0	0

Lab Name: Clayton Group Services (CLAYTN) Contract No.: 68-W-99-069

Case No.: 31180 SDG No.: E01J8 Clayton Work Order No.: 2110442

Technical/Administrative Problems and Corrective Actions

For the VOA analysis, the Hewlett-Packard software flags all manual edits or any compounds affected by the manual edit of an internal standard with an "m" on the reports. The peak is displayed with the baseline of the manual edits and is documented along with the associated "m" flag on the quant report and spectra report. These edits were necessary due to poor computer integration.

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.

Date 11-27-02

Tim Fields
Organic Laboratory Manager

2B

SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 31180 SAS No.: _____ SDG No.: E01J8

Level: (low/med) LOW

	EPA SAMPLE NO.	SMC1 (TOL) #	SMC2 (BFB) #	SMC3 (DCE) #	OTHER	TOT OUT
01	VBLKBE	94	92	102		0
02	E01J8	100	90	110		0
03	E01J8MS	102	90	104		0
04	E01J8MSD	100	90	102		0
05	E01L3	98	94	100		0
06	VBLKBF	98	100	102		0
07	VHBLKBA	100	98	108		0

			QC Limit
SMC1	(TOL)	= Toluene-d8	(84-138)
SMC2	(BFB)	= Bromofluorobenzene	(59-113)
SMC3	(DCE)	= 1,2-Dichloroethane-d4	(70-121)

Column to be used to flag recovery values

* Values outside of contract required QC limits

page 1 of 1

FORM II VOA-2 OLM04.2

3B

SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 31180 SAS No.: SDG No.: E01J8

Matrix Spike - EPA Sample No.: E01J8 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (µg/Kg)	SAMPLE CONCENTRATION (µg/Kg)	MS CONCENTRATION (µg/Kg)	MS % REC #	QC. LIMITS REC.
1,1-Dichloroethene	48	0	42	88	59-172
Trichloroethene	48	0	40	83	62-137
Benzene	48	0	44	92	66-142
Toluene	48	0	44	92	59-139
Chlorobenzene	48	0	43	90	60-133

COMPOUND	SPIKE ADDED (µg/Kg)	MSD CONCENTRATION (µg/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	49	34	69	24*	22	59-172
Trichloroethene	49	35	71	16	24	62-137
Benzene	49	40	82	11	21	66-142
Toluene	49	40	82	11	21	59-139
Chlorobenzene	49	39	80	12	21	60-133

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

* Values outside of QC limits

RPD: 1 out of 5 outside limits

Spike Recovery: 0 out of 10 outside limits

COMMENTS:

4A

EPA SAMPLE NO.

VOLATILE METHOD BLANK SUMMARY

VBLKBE

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 31180 SAS No.:_____ SDG No.: E01J8

Lab File ID: B6161.D Lab Sample ID: 02110442-004A

Date Analyzed: 11/20/02 Time Analyzed: 10:57

GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N) Y

Instrument ID: MS_HP2B

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	E01J8	02110442-001A	B6168.D	15:33
02	E01J8MS	02110442-001B	B6169.D	16:12
03	E01J8MSD	02110442-001C	B6170.D	16:49
04	E01L3	02110442-002A	B6171.D	17:25

COMMENTS:

4A

EPA SAMPLE NO.

VOLATILE METHOD BLANK SUMMARY

VBLKBF

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 31180 SAS No.:_____ SDG No.: E01J8

Lab File ID: B6176.D Lab Sample ID: 02110442-004B

Date Analyzed: 11/20/02 Time Analyzed: 21:14

GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N) Y

Instrument ID: MS_HP2B

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	VHBLKBA	02110442-003A	B6177.D	22:03

COMMENTS:

page 1 of 1

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E01J8

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 31180 SAS No.: _____ SDG No.: E01J8

Matrix: (soil/water) SOIL Lab Sample ID: 02110442-001A

Sample wt/vol: 5.72 (g/mL) G Lab File ID: B6168.D

Level: (low/med) LOW Date Received: 11/15/02

% Moisture: not dec. 13 Date Analyzed: 11/20/02

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND (µg/L or µg/Kg)	UG/KG	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	2	J
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
67-64-1	Acetone	19	B
75-15-0	Carbon Disulfide	10	U
79-20-9	Methyl Acetate	3	BJ
75-09-2	Methylene Chloride	2	BJ
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl tert-Butyl Ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	2	BJ
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	10	U
56-23-5	Carbon Tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E01J8

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 31180 SAS No.: _____ SDG No.: E01J8

Matrix: (soil/water) SOIL Lab Sample ID: 02110442-001A

Sample wt/vol: 5.72 (g/mL) G Lab File ID: B6168.D

Level: (low/med) LOW Date Received: 11/15/02

% Moisture: not dec. 13 Date Analyzed: 11/20/02

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

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

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E01J8

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 31180 SAS No.: _____ SDG No.: E01J8

Matrix: (soil/water) SOIL Lab Sample ID: 02110442-001A

Sample wt/vol: 5.72 (g/mL) G Lab File ID: B6158.D

Level: (low/med) LOW Date Received: 11/15/02

% Moisture: not dec. 13 Date Analyzed: 11/20/02

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

CONCENTRATION UNITS:

Number TICs found: 2 (µg/L or µg/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1.	000075-07-0	Acetaldehyde	5.80	9	NJ
2.	000556-67-2	Cyclotetrasiloxane, octamethyl-	19.85	6	NJ

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E01J8MS

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 31180 SAS No.: _____ SDG No.: E01J5

Matrix: (soil/water) SOIL Lab Sample ID: 02110442-001B

Sample wt/vol: 5.95 (g/mL) G Lab File ID: B6169.D

Level: (low/med) LOW Date Received: 11/15/02

% Moisture: not dec. 13 Date Analyzed: 11/20/02

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	1	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	42	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
67-64-1	Acetone	25	B
75-15-0	Carbon Disulfide	10	U
79-20-9	Methyl Acetate	10	U
75-09-2	Methylene Chloride	2	BJ
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl tert-Butyl Ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	3	BJ
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	10	U
56-23-5	Carbon Tetrachloride	10	U
71-43-2	Benzene	44	
107-06-2	1,2-Dichloroethane	10	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E01J8MS

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 31180 SAS No.: _____ SDG No.: E01J8

Matrix: (soil/water) SOIL Lab Sample ID: 02110442-001B

Sample wt/vol: 5.95 (g/mL) G Lab File ID: B6169.D

Level: (low/med) LOW Date Received: 11/15/02

% Moisture: not dec. 13 Date Analyzed: 11/20/02

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

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

CAS NO.	COMPOUND	UG/KG	Q
79-01-6	Trichloroethene	40	
108-87-2	Methylcyclohexane	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-pentanone	10	U
108-88-3	Toluene	44	
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	43	
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E01J8MSD

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 31180 SAS No.: _____ SDG No.: E01J8

Matrix: (soil/water) SOIL Lab Sample ID: 02110442-001C

Sample wt/vol: 5.84 (g/mL) G Lab File ID: B6170.D

Level: (low/med) LOW Date Received: 11/15/02

% Moisture: not dec. 13 Date Analyzed: 11/20/02

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND (µg/L or µg/Kg)	UG/KG	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	1	J
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	34	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
67-64-1	Acetone	26	B
75-15-0	Carbon Disulfide	10	U
79-20-9	Methyl Acetate	6	BJ
75-09-2	Methylene Chloride	1	BJ
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl tert-Butyl Ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	3	BJ
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	10	U
56-23-5	Carbon Tetrachloride	10	U
71-43-2	Benzene	40	
107-06-2	1,2-Dichloroethane	10	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E01J8MSD

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 31180 SAS No.: _____ SDG No.: E01J8

Matrix: (soil/water) SOIL Lab Sample ID: 02110442-001C

Sample wt/vol: 5.84 (g/mL) G Lab File ID: B6170.D

Level: (low/med) LOW Date Received: 11/15/02

% Moisture: not dec. 13 Date Analyzed: 11/20/02

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND (µg/L or µg/Kg)	UG/KG	Q
79-01-6	Trichloroethene	35	
108-87-2	Methylcyclohexane	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-pentanone	10	U
108-88-3	Toluene	40	
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	39	
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E01L3

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 31180 SAS No.: _____ SDG No.: E01J9

Matrix: (soil/water) SOIL Lab Sample ID: 02110442-002A

Sample wt/vol: 6.17 (g/mL) G Lab File ID: B6171.D

Level: (low/med) LOW Date Received: 11/15/02

% Moisture: not dec. 19 Date Analyzed: 11/20/02

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND (µg/L or µg/Kg)	UG/KG	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
67-64-1	Acetone	18	B
75-15-0	Carbon Disulfide	10	U
79-20-9	Methyl Acetate	9	BJ
75-09-2	Methylene Chloride	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl tert-Butyl Ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	3	BJ
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	3	J
56-23-5	Carbon Tetrachloride	10	U
71-43-2	Benzene	2	J
107-06-2	1,2-Dichloroethane	10	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E01L3

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 31180 SAS No.: _____ SDG No.: E01J8

Matrix: (soil/water) SOIL Lab Sample ID: 02110442-002A

Sample wt/vol: 6.17 (g/mL) G Lab File ID: B6171.D

Level: (low/med) LOW Date Received: 11/15/02

% Moisture: not dec. 19 Date Analyzed: 11/20/02

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CONCENTRATION UNITS:

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

1F

EPA SAMPLE NO.

E01L3

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 31180 SAS No.: _____ SDG No.: E01J8

Matrix: (soil/water) SOIL Lab Sample ID: 02110442-002A

Sample wt/vol: 6.17 (g/mL) G Lab File ID: B6171.D

Level: (low/med) LOW Date Received: 11/15/02

% Moisture: not dec. 19 Date Analyzed: 11/20/02

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

CONCENTRATION UNITS:

Number TICs found: 4 (µg/L or µg/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1.		unknown (5.05)	5.05	13	J
2.		unknown (5.55)	5.55	13	J
3.		unknown (5.78)	5.78	11	J
4.	000556-67-2	Cyclotetrasiloxane, octamethyl-	19.85	21	NJ

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKBE

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 31180 SAS No.: _____ SDG No.: E01J8

Matrix: (soil/water) SOIL Lab Sample ID: 02110442-004A

Sample wt/vol: 5 (g/mL) G Lab File ID: B6161.D

Level: (low/med) LOW Date Received: 11/15/02

% Moisture: not dec. 0 Date Analyzed: 11/20/02

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND (µg/L or µg/Kg)	UG/KG	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
67-64-1	Acetone	12	
75-15-0	Carbon Disulfide	10	U
79-20-9	Methyl Acetate	6	J
75-09-2	Methylene Chloride	2	J
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl tert-Butyl Ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	1	J
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	10	U
56-23-5	Carbon Tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKBE

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 31180 SAS No.: _____ SDG No.: E01J8

Matrix: (soil/water) SOIL Lab Sample ID: 02110442-004A

Sample wt/vol: 5 (g/mL) G Lab File ID: B6161.D

Level: (low/med) LOW Date Received: 11/15/02

% Moisture: not dec. 0 Date Analyzed: 11/20/02

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CONCENTRATION UNITS:

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

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKBE

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 31180 SAS No.: _____ SDG No.: E01J8

Matrix: (soil/water) SOIL Lab Sample ID: 02110442-004A

Sample wt/vol: 5 (g/mL) G Lab File ID: B6161.D

Level: (low/med) LOW Date Received: 11/15/02

% Moisture: not dec. 0 Date Analyzed: 11/20/02

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

CONCENTRATION UNITS:

Number TICs found: 2 (µg/L or µg/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1.	Unknown (24.39)	24.39	25	J
2.	Unknown (29.04)	29.04	13	J

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKBF

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 31180 SAS No.: _____ SDG No.: E01J8

Matrix: (soil/water) SOIL Lab Sample ID: 02110442-004B

Sample wt/vol: 5 (g/mL) G Lab File ID: B6176.D

Level: (low/med) LOW Date Received: 11/15/02

% Moisture: not dec. 0 Date Analyzed: 11/20/02

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CONCENTRATION UNITS:

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

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKBF

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 31180 SAS No.: _____ SDG No.: E01J8

Matrix: (soil/water) SOIL Lab Sample ID: 02110442-004B

Sample wt/vol: 5 (g/mL) G Lab File ID: B6176.D

Level: (low/med) LOW Date Received: 11/15/02

% Moisture: not dec. 0 Date Analyzed: 11/20/02

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CONCENTRATION UNITS:

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

1F

EPA SAMPLE NO.

VBLKBF

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 31180 SAS No.: _____ SDG No.: E01J8

Matrix: (soil/water) SOIL Lab Sample ID: 02110442-004B

Sample wt/vol: 5 (g/mL) G Lab File ID: B6176.D

Level: (low/med) LOW Date Received: 11/15/02

% Moisture: not dec. 0 Date Analyzed: 11/20/02

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

CONCENTRATION UNITS:

Number TICs found: 5 (µg/L or µg/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1.	000541-05-9	Cyclotrisiloxane, hexamethyl-	14.47	8	NJ
2.	000556-67-2	Cyclotetrasiloxane, octamethyl-	19.85	30	NJ
3.		unknown (24.4)	24.40	47	J
4.	000103-09-3	Acetic acid, 2-ethylhexyl ester	26.02	7	NJ
5.		unknown (29.07)	29.07	6	J

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VHBLKBA

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 31180 SAS No.: _____ SDG No.: E0108

Matrix: (soil/water) SOIL Lab Sample ID: 02110442-003A

Sample wt/vol: 5 (g/mL) G Lab File ID: B6177.D

Level: (low/med) LOW Date Received: 11/15/02

% Moisture: not dec. 0 Date Analyzed: 11/20/02

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CONCENTRATION UNITS:

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

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VHBLKBA

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 31180 SAS No.: _____ SDG No.: E01J8

Matrix: (soil/water) SOIL Lab Sample ID: 02110442-003A

Sample wt/vol: 5 (g/mL) G Lab File ID: B6177.D

Level: (low/med) LOW Date Received: 11/15/02

% Moisture: not dec. 0 Date Analyzed: 11/20/02

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CONCENTRATION UNITS:

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

1F

EPA SAMPLE NO.

VHBLKBA

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 31180 SAS No.: _____ SDG No.: E0138

Matrix: (soil/water) SOIL Lab Sample ID: 02110442-003A

Sample wt/vol: 5 (g/mL) G Lab File ID: B6177.D

Level: (low/med) LOW Date Received: 11/15/02

% Moisture: not dec. 0 Date Analyzed: 11/20/02

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

CONCENTRATION UNITS:

Number TICs found: 5 (µg/L or µg/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1.		unknown (5.8)	5.80	8	J
2.	000541-05-9	Cyclotrisiloxane, hexamethyl-	14.47	11	BNJ
3.	000556-67-2	Cyclotetrasiloxane, octamethyl-	19.87	18	BNJ
4.		unknown (24.4)	24.41	14	BJ
5.		unknown (29.07)	29.08	6	BJ

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V
ESD Central Regional Laboratory
Data Tracking Form for Contract Samples

Sample Delivery Group: EC1J8 CERCLIS No: MDS198068

Case No: 31187 Site Name Location: Dixon Municipal LF

Contractor or EPA Lab: Chemtech Data User: IEPA

No. of Samples: 2 Date Sampled or Date Received: 12-2-02

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: 2 No. of samples received: 2

Received by: Erna M. Dixon/ESAT Date: 12-2-02

Received by LSSS: Erna M. Dixon/ESAT Date: 12-2-02

Review started: ____ Reviewer Signature: ____

Total time spent on review: ____ Date review completed: ____

Copied by: Erna M. Dixon/ESAT Date: 12-5-02

Mailed to user by: Erna M. Dixon/ESAT Date: 12-5-02

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.

____
____

Recd. by Data Mgmt. Coordinator for Filing: Date: ____

DATE: December 5, 2002

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

Attn: Bob Casper

SITE NAME: Dixon Municipal Landfill

CASE NO.	LAB	NO. OF SAMPLES	SDG	MATRIX
31180	Shealy	5	E01J2	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
DEC 1 1 2002
IEPA-BOL-FSRS

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V
SUPERFUND DIVISION

DATE: _____

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

Received for Review on December 2, 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: Dixon Municipal Landfill (IL)

CASE NUMBER: 31180 SDG NUMBER: E01J2

Number and Type of Samples: 5 Waters (VOAs)

Sample Numbers: E01J2, E01J4, E01J5, E01J7, E01K1

Laboratory: Shealy Hrs. for Review: _____

Following are our findings:

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

Case Number : 31180 SDG Number: E01J2
Site Name: DIXON MUNICIPAL LANDFILL (IL) Laboratory: SHEALY

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

Five (5) preserved water samples, numbered *E01J2, E01J4, E01J5, E01J7* and *E01K1,* were collected *November 13 - 14, 2002.* The lab received the samples on *November 15, 2002* in good condition. All samples were analyzed for only the volatile list of organic analytes. All were analyzed according to CLP SOW *OLC03.2.*

Case Number : 31180 SDG Number: E01J2
Site Name: DIXON MUNICIPAL LANDFILL (IL) Laboratory: SHEALY

1. HOLDING TIME

No defects found.

2. GC/MS TUNING AND GC INSTRUMENT PERFORMANCE

No defects found.

3. CALIBRATION

DC-8 The following volatile samples are associated with a continuing calibration percent difference (%D) outside primary criteria. Hits are qualified "J" and non-detects are qualified "UJ".

Dichlorodifluoromethane
E01J2MS, E01J2MSD, E01J5, E01J7, VBLK19, VBLK23, VHBLK84

Trichlorofluoromethane, 1,1-Dichloroethene, 1,1,2-Trichloro-1,2,2-trifluoroethane
VBLK23, VHBLK84

Methylcyclohexane
E01J2MS, E01J2MSD, E01J5, E01J7, VBLK19

4. BLANKS

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.

Chloromethane
E01J2, E01J2MSD, E01J4, E01K1

Carbon Disulfide
E01J2, E01J2MS, E01J2MSD

Methylene Chloride
E01J2MS, E01K1

Xylenes (total)
E01J2MSD, E01K1

5. SYSTEM MONITORING COMPOUND AND SURROGATE RECOVERY

Case Number : 31180 SDG Number: E01J2
Site Name: DIXON MUNICIPAL LANDFILL (IL) Laboratory: SHEALY

DC-2 The following volatile method blanks have DMC recovery outside criteria. A visual inspection is required to determine the validity of associated sample data. Hits and non-detects are not flagged.

VBLK19

6. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

DC-2 The relative percent difference (RPD) between the following volatile matrix spike and matrix spike duplicate recoveries is outside criteria. Results for the outlier compounds in the unspiked sample, E01J2, are estimated, "UJ" and non-detects are flagged "UJ".

E01J2MS, E01J2MSD
Benzene, Trichloroethene, Toluene

DC-3 The following volatile matrix spike/matrix spike duplicate samples have percent recovery outside criteria. Results for the outlier compounds in the unspiked sample, E01J2, are estimated, "UJ" and non-detects are flagged "UJ".

E01J2MS
Benzene, Trichloroethene, Toluene, Chlorobenzene

E01J2MSD
Trichloroethene

7. FIELD BLANK AND FIELD DUPLICATE

Sample *E01J7* is a trip blank. Sample *E01K1* is a field blank. Sample *E01J5* is a field duplicate of Sample *E01J4*. 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 volatile samples have analyte concentrations below the quantitation limit (CRQL). All results below the CRQL are qualified "J".

Case Number : 31180 SDG Number: E01J2
Site Name: DIXON MUNICIPAL LANDFILL (IL) Laboratory: SHEALY

E01J2
cis-1,2-Dichloroethene

E01J2MS
cis-1,2-Dichloroethene, Chloroform

E01J2MSD
Acetone, cis-1,2-Dichloroethene, Chloroform, Bromoform

E01J5
Methylcyclohexane, Dibromochloromethane

E01J7, E01K1
Toluene

VBLK19
Chloromethane, Carbon Disulfide, Methylene Chloride, Xylenes (total)

VBLK23
Trichlorofluoromethane, 1,1,2-Trichloro-1,2,2-trifluoroethane, Carbon Disulfide, cis-1,2-Dichloroethene, Carbon Tetrachloride, Benzene, Trichloroethene, 1,2-Dichloropropane, Bromodichloromethane, Toluene, trans-1,3-Dichloropropene, Dibromochloromethane, Ethylbenzene, Xylenes (total), Isopropylbenzene, 1,3-Dichlorobenzene

VBLKC0
Chloromethane, Carbon Disulfide, Methylene Chloride, Xylenes (total)

11. SYSTEM PERFORMANCE

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

12. ADDITIONAL INFORMATION

Qualification: CADRE Reserved **Protocol: VOA**

DC-2 Verification of non-detected results and assignment of "U" qualifier when the reported value is less than CRQL.

E01J2, E01J2MS, E01J2MSD, E01J4, E01J5, E01J7, E01K1, VBLK19, VBLK23, VBLKC0, VHBLK84

Case Number : 31180 SDG Number: E01J2
Site Name: DIXON MUNICIPAL LANDFILL (IL) Laboratory: SHEALY

Data Review Criteria Set Options:

Detection Limit CADRE association rules X
PEST pct D expanded criteria
Use MDL IPC/Tune
Expanded criteria
Holding Time
Region 3 PAH option System Performance
Region 3 PCB option Use initial PEM pct resolution X
Expanded criteria X Use continuing PEM pct resolution X
Inorganic missing pH option
CRDL/CRQL Standards
Calibrations Region 2 validation rules
RRF expanded criteria Region 3 validation rules
VOA/BNA PctD expanded criteria
VOA/BNA PctRSD expanded criteria LCS
Use mean RRF Pct rec expanded criteria
Use VOA/BNA dual purpose standard option X
Use initial INDA/INDB pct resolution X Duplicates
Use continuing INDA/INDB pct resolution RPD and AD expanded criteria
Use PEST low concentration option X
PEST low concentration PctRSD expanded criteria Furnace AA QC
Use DMC/SMC/Surrogate option X Pct R expanded upper criteria
Use INORG extreme high pct recovery Corr coef expanded criteria
Matrix Spikes Blanks
Use PEST low concentration rules X Raise to detection limit X
Use VOA storage/inst blanks X
DMC/SMC/Surrogates Use low concentration rules X
Region 3 validation rules
Check dilution factor X Field QC
Use advisory surrogates Combine method/field blanks
Use low concentration rules X CRDL contamination criteria

Level 2 - Assembled By: Allison Harvey/IITRI-ESAT
Date: December 4, 2002

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 #: 31180 SDG : E01J2
Site : DIXON MUNICIPAL LANDFILL
Lab. : SHEALY
Reviewer :
'e :

Number of Soil Samples : 0
Number of Water Samples : 5

Sample Number :	E01J2		E01J2MS		E01J2MSD		E01J4		E01J5	
Sampling Location :	G201		G201		G201		G202		G202 D	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	11/13/2002		11/13/2002		11/13/2002		11/13/2002		11/13/2002	
Time Sampled :	11:35		11:35		11:35		13:55		13:55	
%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	UJ	0.5	UJ	0.5	U	0.5	UJ
Chloromethane	0.5	UJ	0.5	U	0.5	UJ	0.5	UJ	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	3		6		6		0.5	U	0.5	U
1,1,2-Trichloro-1,2,2-trifluoroethane	0.8		0.7		0.8		0.5	U	0.5	U
Acetone	7		5	U	3	J	5	U	5	U
Carbon Disulfide	0.5	UJ	0.5	UJ	0.5	UJ	0.5	U	0.5	U
Methyl Acetate	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Methylene Chloride	0.5	U	0.5	UJ	0.5	U	0.5	U	0.5	U
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
-1,2-Dichloroethene	0.3	J	0.2	J	0.2	J	0.8		0.8	
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	0.05	J	0.05	J	0.5	U	0.5	U
1,1,1-Trichloroethane	6		4		5		3		3	
Cyclohexane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Carbon Tetrachloride	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Benzene	0.5	UJ	4		4		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	6	J	9		9		5		4	
Methylcyclohexane	0.5	U	0.5	UJ	0.5	UJ	0.5	U	0.2	J
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	U	0.5	U	0.5	U	0.5	U	0.5	U
4-Methyl-2-pentanone	5	U	5	U	5	U	5	U	5	U
Toluene	0.5	UJ	3		4		0.5	U	0.5	U
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

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 #: 31180 SDG : E01J2
Site : DIXON MUNICIPAL LANDFILL
Lab. : SHEALY
Reviewer :
Date :

Sample Number :	E01J2		E01J2MS		E01J2MSD		E01J4		E01J5	
Sampling Location :	G201		G201		G201		G202		G202 D	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	11/13/2002		11/13/2002		11/13/2002		11/13/2002		11/13/2002	
Time Sampled :	11:35		11:35		11:35		13:55		13:55	
%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	2		2		2		3		2	
2-Hexanone	5	U	5	U	5	U	5	U	5	U
Dibromochloromethane	0.5	U	0.5	U	0.5	U	0.7		0.3	J
1,2-Dibromoethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Chlorobenzene	0.5	UJ	4		4		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	UJ	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	U	0.8		0.3	J	2		1	
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 #: 31180 SDG · E01J2
Site : DIXON MUNICIPAL LANDFILL
Lab. : SHEALY
Reviewer .

Sample Number :	E01J7		E01K1		VBLKC0		VBLK19		VBLK23	
Sampling Location :	TRIP BLANK		G203 FIELD BLANK							
Matrix .	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	11/14/2002		11/14/2002							
Time Sampled :	11:55		11:50							
%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	UJ	0.5	U	0.5	U	0.5	UJ	0.5	UJ
Chloromethane	0.5	U	0.5	UJ	0.2	J	0.2	J	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	0.2	J
1,1-Dichloroethene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	UJ
1,1,2-Trichloro-1,2,2-trifluoroethane	0.5	U	0.5	U	0.5	U	0.5	U	0.2	J
Acetone	5	U	6		5	U	5	U	5	U
Carbon Disulfide	0.5	U	0.5	U	0.04	J	0.04	J	0.2	J
Methyl Acetate	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Methylene Chloride	0.5	U	0.5	UJ	0.1	J	0.1	J	0.6	
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
-1,2-Dichloroethene	0.5	U	0.5	U	0.5	U	0.5	U	0.2	J
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	U	0.5	U	0.5	U	0.5	U	0.5	U
Cyclohexane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Carbon Tetrachloride	0.5	U	0.5	U	0.5	U	0.5	U	0.3	J
Benzene	0.5	U	0.5	U	0.5	U	0.5	U	0.2	J
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	0.5	U	0.3	J
Methylcyclohexane	0.5	UJ	0.5	U	0.5	U	0.5	UJ	0.5	U
1,2-Dichloropropane	0.5	U	0.5	U	0.5	U	0.5	U	0.2	J
Bromodichloromethane	0.5	U	0.5	U	0.5	U	0.5	U	0.2	J
cis-1,3-Dichloropropene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
4-Methyl-2-pentanone	5	U	5	U	5	U	5	U	5	U
Toluene	0.07	J	0.2	J	0.5	U	0.5	U	0.2	J
trans-1,3-Dichloropropene	0.5	U	0.5	U	0.5	U	0.5	U	0.2	J
1,1,2-Trichloroethane	0.5	U	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 #: 31180 SDG : E01J2
Site : DIXON MUNICIPAL LANDFILL
Lab. : SHEALY
Reviewer :
Date :

Sample Number :	E01J7		E01K1		VBLKC0		VBLK19		VBLK23	
Sampling Location :	TRIP BLANK		G203 FIELD BLANK							
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	11/14/2002		11/14/2002							
Time Sampled :	11:55		11:50							
%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	0.3	J
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	0.5	U	0.5	U
Ethylbenzene	0.5	U	0.5	U	0.5	U	0.5	U	0.2	J
Xylenes (total)	0.5	U	0.5	UJ	0.06	J	0.06	J	0.2	J
Styrene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Bromoform	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Isopropylbenzene	0.5	U	0.5	U	0.5	U	0.5	U	0.2	J
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	0.3	J
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 #: 31180 SDG : E01J2
Site : DIXON MUNICIPAL LANDFILL
Lab. : SHEALY
Reviewer :
e :

Sample Number :	VHBLK84									
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	UJ								
Chloromethane	0.5	U								
Vinyl Chloride	0.5	U								
Bromomethane	0.5	U								
Chloroethane	0.5	U								
Trichlorofluoromethane	0.5	UJ								
1,1-Dichloroethene	0.5	UJ								
1,1,2-Trichloro-1,2,2-trifluoroethane	0.5	UJ								
Acetone	5	U								
Carbon Disulfide	0.5	U								
Methyl Acetate	0.5	U								
Methylene Chloride	0.5	U								
trans-1,2-Dichloroethene	0.5	U								
tert-Butyl Methyl Ether	0.5	U								
1,1-Dichloroethane	0.5	U								
-1,2-Dichloroethene	0.5	U								
2-Butanone	5	U								
Bromochloromethane	0.5	U								
Chloroform	0.5	U								
1,1,1-Trichloroethane	0.5	U								
Cyclohexane	0.5	U								
Carbon Tetrachloride	0.5	U								
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	0.5	U								
4-Methyl-2-pentanone	5	U								
Toluene	0.5	U								
trans-1,3-Dichloropropene	0.5	U								
1,1,2-Trichloroethane	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 #: 31180 SDG : E01J2
Site : DIXON MUNICIPAL LANDFILL
Lab. : SHEALY
Reviewer :
Date :

Sample Number :	VHBLK84									
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	0.5	U								
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								
1,2,4-Trichlorobenzene	0.5	U								
1,2,3-Trichlorobenzene	0.5	U								

Regional Transmittal Form

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE:

SUBJECT: Review of Data
Received for Review on 12-2-02

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

TO: Data User: EPA

We have reviewed the data for the following case:

SITE NAME: Dixon Municipal LF (IL)

CASE NUMBER: 311SC SDG NUMBER: E01J2

Number and Type of Samples: 5 (Water)

Sample Numbers: E01J2, E01J4-5, E01J7, E01K1

Laboratory: Chemal Hrs for Review:

Following are our findings:

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

Contract Laboratory Program

Sample Delivery Group (SDG)
Cover Sheet

SDG Number E01J2

Laboratory Name Sheely Environmental Laboratory Code SHEALY

Contract No. 68W01040 Case No. 31180

Analysis Price $435.00 SDG Turnaround 21-day

EPA Sample Numbers in SDG (Listed in Numerical Order)

1) E01J2	7)	13)	19)
2) E01J4	8)	14)	20)
3) E01J5	9)	15)	21)
4) E01J7	10)	16)	22)
5) E01K1	11)	17)	23)
6)	12)	18)	24)

E01J2
First Sample in SDG

E01K1
Last Sample in SDG

11/15/2002
First Sample Receipt Date

11/15/2002
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 Robert [illegible] Date 11/15/2002

Version 2.0

USEPA Contract Laboratory Program
Organic Traffic Report

Case No: 31180
DAS No:
SDG No: E01J2

L

Date Shipped: 11/14/02 Carrier Name: UPS Airbill: 1z6215892210021887 Shipped to: Shealy 106 Vantage Point Dr. Cayce SC 29033 (803) 791-9700	Date Received/Received by: 11/15/02 [illegible] Lab Contract No: 68W01040 Unit Price: $455.00 Transfer To: Date Received/Received By: Lab Contract No: Price:	Sampler (Signature): Jerry Willman Relinquished By: Jerry Willman Relinquished By: Relinquished By: UPS	Date / Time: 11-14-02/1720 Date / Time: Date / Time: 11/15/02 1000
			Received By: Received By: Received By: [illegible]

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
E01J2	Potable Well/ Jerry Willman	L/G	VOA (21)	5-66537 (HCL), 5-66538 (HCL), 5-66539 (HCL), 5-66540 (HCL), 5-66541 (HCL), 5-66542 (HCL), 5-66543 (HCL), 5-66544 (HCL), 5-66545 (HCL), 5-66546 (HCL), 5-66547 (HCL), 5-66548 (HCL), 5-66549 (HCL), 5-66550 (HCL), 5-66551 (HCL) (15)	G201	11/13/02 11:35	ME01J2	OK
E01J4	Potable Well/ Jerry Willman	L/G	VOA (21)	5-66704 (Ice Only), 5-66705 (Ice Only), 5-66706 (Ice Only), 5-66707 (Ice Only), 5-66708 (Ice Only) (5)	G202	11/13/02 13:55	ME01J4	
E01J5	Potable Well/ Jerry Willman	L/G	VOA (21)	5-66711 (HCL), 5-66712 (HCL), 5-66713 (HCL), 5-66714 (HCL), 5-66715 (HCL) (5)	G202 D	11/13/02 13:55	ME01J5	
E01J7	Ground Water/ Jerry Willman	L/G	VOA (21)	5-66720 (HCL), 5-66721 (HCL) (2)	Trip Blank	11/14/02 11:55		
E01K1	Ground Water/ Jerry Willman	L/G	VOA (21)	5-66732 (HCL), 5-66733 (HCL), 5-66734 (HCL), 5-66735 (HCL), 5-66736 (HCL) (5)	G203 Field Blank	11/14/02 11:50	ME01K1	

"SDG E01J2 Field Sample"

Shipment for Case Complete? Y	Sample(s) to be used for laboratory QC: E01J2	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 4.4	Chain of Custody Seal Number: 22621
Analysis Key: VOA = CLP TCL Volatiles	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? N Shipment Iced? Y

PR provides ninary 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: 5-324306854-111402-0002

DEC 0 2 2002

Shealy Environmental Services, Inc.

Contract Number: 68W01040
Date: 11/29/2002

SDG Narrative

Case 31180
SDG E01J2

EPA Sample Numbers

EPA Sample Number	Volatile Fraction	Dilution/ Reanalysis	BNA/Pesticide Fraction	pH of volatile samples
E01J2	Yes	No	No	<2
E01J2MS	Yes	No	No	<2
E01J2MSD	Yes	No	No	<2
E01J4	Yes	No	No	<2
E01J5	Yes	No	No	<2
E01J7	Yes	No	No	<2
E01K1	Yes	No	No	<2

Columns	VOC RTX-624, 40m x 0.18mm x 1.0um
Trap	VOCARB 3000, 17 cm of packing material

VOA Fraction

Manual integrations were performed on 1,2-bromo-3-chloropropane, 1,2,4-trichlorobenzene and 1,2,3-trichlorobenzene in VSTD0.518 due to poor response. Manual integration was performed on 1,1,2,2-tetrachloroethane in VSTD00118 due to incorrect auto integration.

The original raw data for the initial calibration analysis performed on 11/18/02 were submitted with case 31212, SDG EDCT1.

The method blank (VBLK19) analyzed on 11/19/02 failed DMC acceptance criteria. Due to lab oversight the samples associated with this method blank were not reanalyzed.

The peak eluting at ~5.3 min in all analyses is pentafluorobenzene. This is an internal standard compound that is not being used for quantitation. This compound is not being identified as a TIC.

Sample Receiving

Sample cooler temperature was 4.4°C.

The following issues are noted for this SDG:

1. The preservative for sample E01J4 is "Ice Only" on the TR. But the sample tags show "HCL", with "Ice" crossed out. Per the instruction from the Region, HCL is the correct preservative.

2. The custody seal on the sample cooler was broken when received at the lab.

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.

11/29/2002

Daniel J. Wright
Laboratory Director

Robert Zhu

From: "Brown, Jessica" <Jessica.Brown@dyncorp.com>
To: "Robert Zhu (E-mail)" <rz@shealylab.com>
Cc: "Mark Wagner (E-mail 2)" <EPA4415@epa.state.il.us>; "Bob Casper (E-mail)" <epa4407@epa.state.il.us>; "Carlene Thomas (E-mail)" <thomas.carlene@epa.gov>; "Howard Pham (Alt Loc) (E-mail)" <H161259@msn.com>; "Howard Pham (E-mail)" <pham.howard@epa.gov>
Sent: Friday, November 15, 2002 4:28 PM
Subject: Region 05 | Case 31180 | Lab SHEALY | Issue TR/COC discrepancy - sample level | FINAL

Hi Robert,

Per Region 5, please note the preservative in the SDG narrative and proceed with using the preservative listed on the tag (HCl) for sample E01J4.

Thanks,
Jessica

11/15/02 4:21PM Jessica Brown, SMO, spoke with Howard Pham, USEPA Region 5 RSCC, concerning Case 31180. The lab should note the preservative in the SDG narrative and proceed with using the preservative listed on the tag (HCl) for sample E01J4.

-----Original Message-----
From: Brown, Jessica
Sent: Friday, November 15, 2002 2:46 PM
To: Bob Casper (E-mail); Mark Wagner (E-mail 2); Carlene Thomas (E-mail); Howard Pham (Alt Loc) (E-mail); Howard Pham (E mail)
Subject: Region 05 | Case 31180 | Lab SHEALY | Issue TR/COC discrepancy - sample level

Following is an e-mail from SHEALY concerning Case 31180. Please advise on how the lab should proceed.

Thanks,
Jessica

-----Original Message-----
From: Robert Zhu [mailto:rz@shealylab.com]
Sent: Friday, November 15, 2002 2:42 PM
To: Brown, Jessica
Subject: Case 31180

Hi, Jessica:
The following discrepancy is noted:
Sample E01J4, on the TR, the preservative is "Ice Only". But on the sample tags and the labels on the vials, it is "HCL", with "Ice" crossed out.

==========
Robert Zhu
Director of Organics
Shealy Environmental Services, Inc.
803-791-9700 Ext. 110
==========

Outgoing mail is certified Virus Free.
Checked by AVG anti-virus system (http://www.grisoft.com).

Version: 6.0.419 / Virus Database: 235 - Release Date: 11/13/2002

Robert Zhu

From: "Brown, Jessica" <Jessica.Brown@dyncorp.com>
To: "Robert Zhu (E-mail)" <rz@shealylab.com>
Cc: "Bob Casper (E-mail)" <epa4407@epa.state.il.us>; "Mark Wagner (E-mail 2)" <EPA4415@epa.state.il.us>; "Carlene Thomas (E-mail)" <thomas.carlene@epa.gov>; "Howard Pham (Alt Loc) (E-mail)" <H161259@msn.com>; "Howard Pham (E-mail)" <pham.howard@epa.gov>
Sent: Friday, November 15, 2002 3:27 PM
Subject: Region 05 | Case 31180 | Lab SHEALY | Issue Custody seals | FINAL

Hi Robert,

In accordance with previous direction from Region 5, the laboratory will note the issue in the SDG Narrative and proceed with the analysis of the samples.

Thanks,

Jessica Brown
DynCorp Systems & Solutions LLC
CLP Coordinator for Regions 4, 5, & 8
jessica.brown@dyncorp.com
Ph: 703.264.9349; Fax: 703.264.9222

-----Original Message-----
From: Robert Zhu [mailto:rz@shealylab.com]
Sent: Friday, November 15, 2002 3:01 PM
To: Brown, Jessica
Subject: Case 31180

Hi, Jessica:
One more problem for this case:
The custody seal on the sample cooler was broken when received. The cooler cover had a twist-tie on it, so it was sealed OK.

==========
Robert Zhu
Director of Organics
Shealy Environmental Services, Inc.
803-791-9700 Ext. 110
==========

Outgoing mail is certified Virus Free.
Checked by AVG anti-virus system (http://www.grisoft.com).
Version: 6.0.419 / Virus Database: 235 - Release Date: 11/13/2002

2LCA

LOW CONCENTRATION WATER VOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: SHEALY ENVIRONMENTAL Contract: 68W01040

Lab Code: SHEALY Case No.: 31180 Client No.: SDG No.: E01J2

	EPA SAMPLE NO.	VDMC1 (VCL) #	VDMC2 (CLA) #	VDMC3 (DCE) #	VDMC4 (BUT) #	VDMC5 (CLF) #	VDMC6 (DCA) #	VDMC7 (BEN) #
01	VBLK19	80	74	68	90	84	84	92
02	E01J2MS	90	94	110	108	104	106	96
03	E01J2MSD	90	100	114	116	106	112	102
04	E01J5	128	124	90	120	102	100	102
05	E01J7	118	114	86	116	96	94	96
06	VBLKC0	92	96	84	104	94	92	100
07	E01J2	96	106	98	124	96	100	104
08	E01J4	96	100	98	98	98	100	106
09	E01K1	100	100	90	96	98	92	98
10	VBLK23	90	90	72	98	88	96	102
11	VHBLK84	90	94	76	86	88	90	100
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: SHEALY ENVIRONMENTAL Contract: 68W01040

Lab Code: SHEALY Case No.: 31180 Client No.: SDG No.: E01J2

	EPA SAMPLE NO.	VDMC8 (DPA) #	VDMC9 (TOL) #	VDMC10 (TDP) #	VDMC11 (HEX) #	VDMC12 (BRF) #	VDMC13 (TCA) #	VDMC14 (DCZ) #	TOT OUT
01	VBLK19	90	86	86	70	92	74*	90	1
02	E01J2MS	98	94	100	100	110	96	110	0
03	E01J2MSD	100	102	106	90	124	104	110	0
04	E01J5	106	100	100	112	102	94	110	0
05	E01J7	98	94	94	78	88	88	100	0
06	VBLKC0	98	100	96	84	112	88	104	0
07	E01J2	102	106	108	78	120	86	106	0
08	E01J4	102	104	108	70	120	96	112	0
09	E01K1	94	100	96	80	98	92	106	0
10	VBLK23	96	92	102	90	104	102	100	0
11	VHBLK84	94	94	100	46	96	94	102	0
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									

			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

Lab Name: SHEALY ENVIRONMENTAL Contract: 68W01040

Lab Code: SHEALY Case No.: 31180 Client No.: SDG No.: E01J2

Matrix Spike - EPA Sample No.: E01J2

COMPOUND	SPIKE ADDED (UG/L)	SAMPLE AMOUNT (UG/L)	MS AMOUNT (UG/L)	MS % REC #	QC. LIMITS REC.
1,1-Dichloroethene	5.0	2.6	6.1	70	61-145
Benzene	5.0	0.00	3.5	70*	76-127
Trichloroethene	5.0	5.8	8.5	54*	71-120
Toluene	5.0	0.00	3.4	68*	76-125
Chlorobenzene	5.0	0.00	3.7	74*	75-130

COMPOUND	SPIKE ADDED (UG/L)	MSD AMOUNT (UG/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	5.0	6.3	74	6	14	61-145
Benzene	5.0	4.0	80	13*	11	76-127
Trichloroethene	5.0	9.3	70*	26*	14	71-120
Toluene	5.0	3.9	78	14*	13	76-125
Chlorobenzene	5.0	4.1	82	10	13	75-130

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

* Values outside of QC limits

RPD: 3 out of 5 outside limits
Spike Recovery: 5 out of 10 outside limits

COMMENTS: _____

4LCA
LOW CONCENTRATION WATER
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK19

Lab Name: SHEALY ENVIRONMENTAL Contract: 68W01040

Lab Code: SHEALY Case No.: 31180 Client No.: SDG No.: E01J2

Lab Sample ID: METHOD BLANK Date Analyzed: 11/19/2002

Lab File ID: MB1119A Time Analyzed: 1029

Instrument ID: MSD8

GC Column: RTX-624 ID: 0.18(MM) Length: 40.0(M)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLE ANALYSES:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	E01J2MS	DK15010-001	K15010MS	1807
02	E01J2MSD	DK15010-001	K15010MD	1834
03	E01J5	DK15010-003	K1501003	1957
04	E01J7	DK15010-004	K1501004	2025
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS:

FORM IV LCV OLC03.2

4LCA
LOW CONCENTRATION WATER
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLKC0

Lab Name: SHEALY ENVIRONMENTAL Contract: 68W01040

Lab Code: SHEALY Case No.: 31180 Client No.: SDG No.: E01J2

Lab Sample ID: METHOD BLANK Date Analyzed: 11/20/2002

Lab File ID: MB1120D Time Analyzed: 1733

Instrument ID: MSD8

GC Column: RTX-624 ID: 0.18(MM) Length: 40.0(M)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLE ANALYSES:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	E01J2	DK15010-001	K1501001	1836
02	E01J4	DK15010-002	K1501002	1904
03	E01K1	DK15010-005	K1501005	1931
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS:

FORM IV LCV OLC03.2

4LCA
LOW CONCENTRATION WATER
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK23

Lab Name: SHEALY ENVIRONMENTAL Contract: 68W01040

Lab Code: SHEALY Case No.: 31180 Client No.: SDG No.: EC1J2

Lab Sample ID: METHOD BLANK Date Analyzed: 11/23/2002

Lab File ID: MB1123A Time Analyzed: 1045

Instrument ID: MSD8

GC Column: RTX-624 ID: 0.18(MM) Length: 40.0(M)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLE ANALYSES:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	VHBLK84	DK15010-006	K1501006	1125
02				
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS:

FORM IV LCV OLC03.2

1LCA
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E01J2

Lab Name: SHEALY ENVIRONMENTAL Contract: 68W01040

Lab Code: SHEALY Case No.: 31180 Client No.: SDG No.: E01J2

Lab Sample ID: DK15010-001 Date Received: 11/15/2002

Lab File ID: K1501001 Date Analyzed: 11/20/2002

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.18(MM) Length: 40.0(M)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.30	JB
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	2.6	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.82	
67-64-1	Acetone	6.7	
75-15-0	Carbon Disulfide	0.030	JB
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	0.30	J
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	5.7	
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.

E01J2

Lab Name: SHEALY ENVIRONMENTAL Contract: 68W01040

Lab Code: SHEALY Case No.: 31180 Client No.: SDG No.: E01J2

Lab Sample ID: DK15010-001 Date Received: 11/15/2002

Lab File ID: K1501001 Date Analyzed: 11/20/2002

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.18(MM) Length: 40.0(M)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
79-01-6	Trichloroethene	5.8	
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	0.50	U
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	2.4	
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	U
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.

E01J2

Lab Name: SHEALY ENVIRONMENTAL Contract: 68W01040

Lab Code: SHEALY Case No.: 31180 Client No.: SDG No.: E01J2

Lab Sample ID: DK15010-001 Date Received: 11/15/2002

Lab File ID: K1501001 Date Analyzed: 11/20/2002

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.18(MM) Length: 40.0(M)

Number TICs found: 0

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (UG/L)	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

1LCA
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E01J2MS

Lab Name: SHEALY ENVIRONMENTAL Contract: 68W01040

Lab Code: SHEALY Case No.: 31180 Client No.: SDG No.: E01J2

Lab Sample ID: DK15010-001 Date Received: 11/15/2002

Lab File ID: K15010MS Date Analyzed: 11/19/2002

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.18(MM) Length: 40.0(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	6.1	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.72	
67-64-1	Acetone	5.0	U
75-15-0	Carbon Disulfide	0.061	JB
79-20-9	Methyl Acetate	0.50	U
75-09-2	Methylene Chloride	0.12	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	0.23	J
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.050	J
71-55-6	1,1,1-Trichloroethane	4.4	
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	3.5	
107-06-2	1,2-Dichloroethane	0.50	U

1LCB
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E01J2MS

Lab Name: SHEALY ENVIRONMENTAL Contract: 68W01040

Lab Code: SHEALY Case No.: 31180 Client No.: SDG No.: E01J2

Lab Sample ID: DK15010-001 Date Received: 11/15/2002

Lab File ID: K15010MS Date Analyzed: 11/19/2002

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.18(MM) Length: 40.0(M)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
79-01-6	Trichloroethene	8.5	
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	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	3.4	
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	1.8	
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	3.7	
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	0.77	
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.

E01J2MSD

Lab Name: SHEALY ENVIRONMENTAL Contract: 68W01040

Lab Code: SHEALY Case No.: 31180 Client No.: SDG No.: E01J2

Lab Sample ID: DK15010-001 Date Received: 11/15/2002

Lab File ID: K15010MD Date Analyzed: 11/19/2002

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.18(MM) Length: 40.0(M)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.15	JB
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	6.3	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.78	
67-64-1	Acetone	3.0	J
75-15-0	Carbon Disulfide	0.071	JB
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	0.22	J
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.051	J
71-55-6	1,1,1-Trichloroethane	4.5	
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	4.0	
107-06-2	1,2-Dichloroethane	0.50	U

1LCB
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E01J2MSD

Lab Name: SHEALY ENVIRONMENTAL Contract: 68W01040

Lab Code: SHEALY Case No.: 31180 Client No.: SDG No.: E01J2

Lab Sample ID: DK15010-001 Date Received: 11/15/2002

Lab File ID: K15010MD Date Analyzed: 11/19/2002

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.18(MM) Length: 40.0(M)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
79-01-6	Trichloroethene	9.3	
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	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	3.9	
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	1.7	
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	4.1	
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (total)	0.041	J
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.31	J
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.

E01J4

Lab Name: SHEALY ENVIRONMENTAL Contract: 68W01040

Lab Code: SHEALY Case No.: 31180 Client No.: SDG No.: E01J2

Lab Sample ID: DK15010-002 Date Received: 11/15/2002

Lab File ID: K1501002 Date Analyzed: 11/20/2002

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.18(MM) Length: 40.0(M)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.12	JB
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	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.84	
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	3.1	
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.

E01J4

Lab Name: SHEALY ENVIRONMENTAL Contract: 68W01040

Lab Code: SHEALY Case No.: 31180 Client No.: SDG No.: E01J2

Lab Sample ID: DK15010-002 Date Received: 11/15/2002

Lab File ID: K1501002 Date Analyzed: 11/20/2002

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.18(MM) Length: 40.0(M)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
79-01-6	Trichloroethene	4.5	
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	0.50	U
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	2.9	
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.72	
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	2.4	
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.

E01J4

Lab Name: SHEALY ENVIRONMENTAL Contract: 68W01040

Lab Code: SHEALY Case No.: 31180 Client No.: SDG No.: E01J2

Lab Sample ID: DK15010-002 Date Received: 11/15/2002

Lab File ID: K1501002 Date Analyzed: 11/20/2002

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.18(MM) Length: 40.0(M)

Number TICs found: 0

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (UG/L)	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

1LCA
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E01J5

Lab Name: SHEALY ENVIRONMENTAL Contract: 68W01040

Lab Code: SHEALY Case No.: 31180 Client No.: SDG No.: E01J2

Lab Sample ID: DK15010-003 Date Received: 11/15/2002

Lab File ID: K1501003 Date Analyzed: 11/19/2002

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.18(MM) Length: 40.0(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	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.79	
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	2.5	
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.

E01J5

Lab Name: SHEALY ENVIRONMENTAL Contract: 68W01040

Lab Code: SHEALY Case No.: 31180 Client No.: SDG No.: E01J2

Lab Sample ID: DK15010-003 Date Received: 11/15/2002

Lab File ID: K1501003 Date Analyzed: 11/19/2002

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.18(MM) Length: 40.0(M)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
79-01-6	Trichloroethene	3.5	
108-87-2	Methylcyclohexane	0.20	J
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
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	2.2	
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.33	J
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	1.2	
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.

E01J5

Lab Name: SHEALY ENVIRONMENTAL Contract: 68W01040

Lab Code: SHEALY Case No.: 31180 Client No.: SDG No.: E01J2

Lab Sample ID: DK15010-003 Date Received: 11/15/2002

Lab File ID: K1501003 Date Analyzed: 11/19/2002

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.18(MM) Length: 40.0(M)

Number TICs found: 1

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (UG/L)	Q
01	527-84-4	BENZENE, 1-METHYL-2-(1-METHY	10.93	1.4	NJ
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

1LCA
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E01J7

Lab Name: SHEALY ENVIRONMENTAL Contract: 68W01040

Lab Code: SHEALY Case No.: 31180 Client No.: SDG No.: E01J2

Lab Sample ID: DK15010-004 Date Received: 11/15/2002

Lab File ID: K1501004 Date Analyzed: 11/19/2002

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.18(MM) Length: 40.0(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	0.50	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.

E01J7

Lab Name: SHEALY ENVIRONMENTAL Contract: 68W01040

Lab Code: SHEALY Case No.: 31180 Client No.: SDG No.: E01J2

Lab Sample ID: DK15010-004 Date Received: 11/15/2002

Lab File ID: K1501004 Date Analyzed: 11/19/2002

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.18(MM) Length: 40.0(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	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.068	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	0.50	U
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.

E01J7

Lab Name: SHEALY ENVIRONMENTAL Contract: 68W01040

Lab Code: SHEALY Case No.: 31180 Client No.: SDG No.: E01J2

Lab Sample ID: DK15010-004 Date Received: 11/15/2002

Lab File ID: K1501004 Date Analyzed: 11/19/2002

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.18(MM) Length: 40.0(M)

Number TICs found: 0

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (UG/L)	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

1LCA
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E01K1

Lab Name: SHEALY ENVIRONMENTAL Contract: 68W01040

Lab Code: SHEALY Case No.: 31180 Client No.: SDG No.: E01J2

Lab Sample ID: DK15010-005 Date Received: 11/15/2002

Lab File ID: K1501005 Date Analyzed: 11/20/2002

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.18(MM) Length: 40.0(M)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.15	JB
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	5.9	
75-15-0	Carbon Disulfide	0.50	U
79-20-9	Methyl Acetate	0.50	U
75-09-2	Methylene Chloride	0.28	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.

E01K1

Lab Name: SHEALY ENVIRONMENTAL Contract: 68W01040

Lab Code: SHEALY Case No.: 31180 Client No.: SDG No.: E01J2

Lab Sample ID: DK15010-005 Date Received: 11/15/2002

Lab File ID: K1501005 Date Analyzed: 11/20/2002

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.18(MM) Length: 40.0(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	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.19	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)	0.10	JB
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
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.

E01K1

Lab Name: SHEALY ENVIRONMENTAL Contract: 68W01040

Lab Code: SHEALY Case No.: 31180 Client No.: SDG No.: E01J2

Lab Sample ID: DK15010-005 Date Received: 11/15/2002

Lab File ID: K1501005 Date Analyzed: 11/20/2002

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.18(MM) Length: 40.0(M)

Number TICs found: 0

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (UG/L)	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

1LCA
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

VBLK19

Lab Name: SHEALY ENVIRONMENTAL Contract: 68W01040

Lab Code: SHEALY Case No.: 31180 Client No.: SDG No.: E01J2

Lab Sample ID: METHOD BLANK Date Received: _____

Lab File ID: MB1119A Date Analyzed: 11/19/2002

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.18(MM) Length: 40.0(M)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.19	J
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	0.036	J
79-20-9	Methyl Acetate	0.50	U
75-09-2	Methylene Chloride	0.10	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.

VBLK19

Lab Name: SHEALY ENVIRONMENTAL Contract: 68W01040

Lab Code: SHEALY Case No.: 31180 Client No.: SDG No.: E01J2

Lab Sample ID: METHOD BLANK Date Received: _____

Lab File ID: MB1119A Date Analyzed: 11/19/2002

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.18(MM) Length: 40.0(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	0.50	U
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)	0.059	J
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
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.

VBLK19

Lab Name: SHEALY ENVIRONMENTAL Contract: 68W01040

Lab Code: SHEALY Case No.: 31180 Client No.: SDG No.: E01J2

Lab Sample ID: METHOD BLANK Date Received: _____

Lab File ID: MB1119A Date Analyzed: 11/19/2002

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.18(MM) Length: 40.0(M)

Number TICs found: 0

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (UG/L)	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

1LCA
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

VBLKC0

Lab Name: SHEALY ENVIRONMENTAL Contract: 68W01040

Lab Code: SHEALY Case No.: 31180 Client No.: SDG No.: E01J2

Lab Sample ID: METHOD BLANK Date Received: _____

Lab File ID: MB1120D Date Analyzed: 11/20/2002

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.18(MM) Length: 40.0(M)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.15	J
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	0.041	J
79-20-9	Methyl Acetate	0.50	U
75-09-2	Methylene Chloride	0.12	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.

VBLKC0

Lab Name: SHEALY ENVIRONMENTAL Contract: 68W01040

Lab Code: SHEALY Case No.: 31180 Client No.: SDG No.: E01J2

Lab Sample ID: METHOD BLANK Date Received: _____

Lab File ID: MB1120D Date Analyzed: 11/20/2002

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.18(MM) Length: 40.0(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	0.50	U
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)	0.058	J
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
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.

VBLKC0

Lab Name: SHEALY ENVIRONMENTAL Contract: 68W01040

Lab Code: SHEALY Case No.: 31180 Client No.: SDG No.: E01J2

Lab Sample ID: METHOD BLANK Date Received: _____

Lab File ID: MB1120D Date Analyzed: 11/20/2002

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.18(MM) Length: 40.0(M)

Number TICs found: 0

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (UG/L)	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

1LCA
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

VBLK23

Lab Name: SHEALY ENVIRONMENTAL Contract: 68W01040

Lab Code: SHEALY Case No.: 31180 Client No.: SDG No.: E01J2

Lab Sample ID: METHOD BLANK Date Received: _____

Lab File ID: MB1123A Date Analyzed: 11/23/2002

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.18(MM) Length: 40.0(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	0.22	J
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.21	J
67-64-1	Acetone	5.0	U
75-15-0	Carbon Disulfide	0.23	J
79-20-9	Methyl Acetate	0.50	U
75-09-2	Methylene Chloride	0.56	
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	0.22	J
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	0.27	J
71-43-2	Benzene	0.23	J
107-06-2	1,2-Dichloroethane	0.50	U

1LCB
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

VBLK23

Lab Name: SHEALY ENVIRONMENTAL Contract: 68W01040

Lab Code: SHEALY Case No.: 31180 Client No.: SDG No.: E01J2

Lab Sample ID: METHOD BLANK Date Received: _____

Lab File ID: MB1123A Date Analyzed: 11/23/2002

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.18(MM) Length: 40.0(M)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
79-01-6	Trichloroethene	0.25	J
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.21	J
75-27-4	Bromodichloromethane	0.24	J
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.19	J
10061-02-6	trans-1,3-Dichloropropene	0.19	J
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	0.27	J
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.18	J
1330-20-7	Xylene (total)	0.17	J
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.18	J
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.27	J
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.

VBLK23

Lab Name: SHEALY ENVIRONMENTAL Contract: 68W01040

Lab Code: SHEALY Case No.: 31180 Client No.: SDG No.: E01J2

Lab Sample ID: METHOD BLANK Date Received: _____

Lab File ID: MB1123A Date Analyzed: 11/23/2002

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.18(MM) Length: 40.0(M)

Number TICs found: 0

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (UG/L)	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

1LCA
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

VHBLK84

Lab Name: SHEALY ENVIRONMENTAL Contract: 68W01040

Lab Code: SHEALY Case No.: 31180 Client No.: SDG No.: E01J2

Lab Sample ID: DK15010-006 Date Received: 11/15/2002

Lab File ID: K1501006 Date Analyzed: 11/23/2002

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.18(MM) Length: 40.0(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	0.50	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.

VHBLK84

Lab Name: SHEALY ENVIRONMENTAL Contract: 68W01040

Lab Code: SHEALY Case No.: 31180 Client No.: SDG No.: E01J2

Lab Sample ID: DK15010-006 Date Received: 11/15/2002

Lab File ID: K1501006 Date Analyzed: 11/23/2002

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.18(MM) Length: 40.0(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	0.50	U
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	U
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.

VHBLK84

Lab Name: SHEALY ENVIRONMENTAL Contract: 68W01040

Lab Code: SHEALY Case No.: 31180 Client No.: SDG No.: E01J2

Lab Sample ID: DK15010-006 Date Received: 11/15/2002

Lab File ID: K1501006 Date Analyzed: 11/23/2002

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.18(MM) Length: 40.0(M)

Number TICs found: 0

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (UG/L)	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V
ESD Central Regional Laboratory
Data Tracking Form for Contract Samples

Sample Delivery Group: E01I2 CERCLIS No: ILD981196686

Case No: 31180 Site Name/Location: Dixon Municipal LF

Contractor or EPA Lab: SHEALY Data User: IEPA

No. of Samples: 5 Date Sampled or Date Received: 12-2-02

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: 5 No. of samples received: 5

Received by: Ena M Dixon/ESAT Date: 12-2-02

Received by LSSS: Ena M. Dixon/ESAT Date: 12-2-02

Review started: ____ Reviewer Signature: ____

Total time spent on review: ____ Date review completed: ____

Copied by: Ena M. Dixon/ESAT Date: 12-5-02

Mailed to user by: Ena M. Dixon/ESAT Date: 12-5-02

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.

Return to Data Mgmt. Coordinator for Final Data: ____