

EA Laboratories

19 Loveton Circle  
Sparks, MD 21152  
Telephone: 410-771-4920  
Fax: 410-771-4407

12/31/96  
MH  
DAP  
NS



November 26, 1996

DAP  
NS

Mr. Al Eckert  
Arkansas Department of Pollution Control and Ecology  
Solid Waste Management Division  
8001 National Drive  
P.O. Box 8913  
Little Rock, Arkansas 72219-8913

4350  
0162-SR-2

4351  
0173-SR-2

Re: Groundwater Monitoring Data Submittal  
Tontitown Landfill Permit Numbers 123-SR-2 and/or 162-SR-2

72-0144

Dear Mr. Eckert:

In accordance with Chapter 12 of Regulation 22, Rules for Solid Waste Management, the Tontitown Landfill, Inc. has performed the second quarter groundwater sampling event at the subject facility on September 25, 1996. Analytical report number is 961577 (groundwater Appendix I) from EA Laboratories for samples collected during this event are enclosed. Included in the subject reports are copies of field parameter forms completed during the sampling event. Observations and measurements made in the field are listed on these forms.

Please note that sample MW-12 is a field duplicate of sample MW-8.

If you have any questions concerning the enclosed analytical reports, please contact me at 410-771-4920. If you have any other questions concerning the environmental compliance at the subject site, please contact either Mr. Michael Dae of USA Waste at 404-799-2950 or Mr. Kevin Hodges of USA Waste at 501-751-7024.

Sincerely,

R. Thomas Randall  
Laboratory Project Manager

enclosure

cc: Michael S. Dae, w/o enclosure  
Kevin Hodges, w/o enclosure



25 October 1996

Mr. Mike Dae  
USA Waste Services Company  
2236 Bolton Road, N.W.  
Atlanta, GA 30318

Re: Tontitown Landfill (70110.01)

Dear Mr. Dae:

Enclosed is our report on the analysis of eleven water samples, and one equipment blank collected for the Tontitown Landfill project on 25 September 1996. The invoice is included.

Please contact me if you have any questions or require further information and refer to report 961577. Unless other arrangements are made, we reserve the right to dispose of your samples sixty (60) days from the date of this letter. We will retain the raw data for seven years from this date.

Sincerely,

A handwritten signature in cursive script, appearing to read 'R. Thomas Randall'.

R. Thomas Randall  
Laboratory Project Manager

enclosure  
cc: Kevin Hodges



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LABORATORY DATA REPORT

Prepared for:

Tontitown Landfill

Prepared by:

EA Laboratories  
19 Loveton Circle  
Sparks, Maryland 21152

Report 961577

October 1996

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Tontitown Landfill  
EA Laboratories Report No. 961577

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## 1 NARRATIVE

**EA Laboratories**  
**ANALYTICAL NARRATIVE**

Client: **USA Waste**  
Site: **Tontitown Landfill**  
Project number: **70110.01**

EA Laboratories Report: **961577**  
Laboratory Project Manager: **R. Thomas Randall**  
Report Date: **25 October 1996**

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This report contains the results of the analysis of eleven water samples, and one equipment blank collected on 25 September 1996 in support of the referenced project.

***SAMPLE RECEIPT***

The samples, one equipment blank, and one trip blank arrived by Federal Express at EA Laboratories on 27 September 1996. Upon receipt, the samples and blanks were inspected and compared with the chain-of-custody record. The samples and blanks were then logged into the laboratory computer system with assigned laboratory accession numbers and released for analysis.

<u>Client Sample Designation</u>	<u>EA Lab Number</u>
MW-1	9614486
MW-2	9614487
MW-3	9614488
MW-4	9614489
MW-5	9614490
MW-6	9614491
MW-7	9614492
MW-8	9614493
MW-10	9614494
MW-11	9614495
MW-12	9614496
EQUIP-BLANK	9614497
TRIP BLANK	9614498

Following this narrative section are a description of analytical methods (Table 1), a glossaries of data qualifiers used in this report (Table 2), and the original chain-of-custody record. Analytical results and quality control information are summarized in the appended data package which has been formatted to be consistent with the deliverable requirements of this project

***QUALITY CONTROL***

The following sections are ordered as the data appears in this report. They contain observations made during sample analysis, summarize the results of quality control measurements, and address the impact on data usability based upon project Data Quality Objectives. For each fractional

**EA Laboratories**  
**ANALYTICAL NARRATIVE**

Client: **USA Waste**  
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EA Laboratories Report: **961577**  
Laboratory Project Manager: **R. Thomas Randall**  
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analysis the narrative includes.

- **Sample chronology:** This section summarizes the sample history by fraction including the sample preparation method and date, analytical method, and analysis date. Anything unusual about the samples, digestates, or extracts is identified. Holding time compliance is evaluated in this section.
- **Laboratory method performance:** All quality control criteria for method performance must be met for all target analytes for data to be reported. These criteria generally apply to instrument tune, calibration, method blanks, and Laboratory Control Samples (LCS). In some instances where method criteria fail, useable data can be obtained and are reported with client approval. The narrative will then include a thorough discussion of the impact on data quality.
- **Sample performance:** Quality control field samples are analyzed to determine any measurement bias due to the sample matrix based on evaluation of matrix spikes (MS), matrix spike duplicates (MSD), and laboratory duplicates (D). If acceptance criteria are not met, matrix interferences are confirmed either by reanalysis or by inspection of the LCS results to verify that laboratory method performance is in control. Data are reported with appropriate qualifiers or discussion.

**VOLATILES by GC/MS - WATER (EA9614486-EA9614498)**

**Sample Chronology:** The samples and associated quality control samples were analyzed by SW-846 Methods 5030/8260 on 7 and 8 October 1996 for the RCRA Appendix I analyte list. All analyses were performed within holding times.

**Laboratory Method Performance:** All laboratory method performance criteria were met for the reported samples.

**Sample Performance:** All quality control criteria were met for the reported samples.

**METALS - WATER (EA9614486-EA9614497)**

**Sample Chronology:** Twelve samples were prepared on 15-23 October 1996 and analyzed for total metals according to EPA SW846 methods 6010/7470/7060/7421/7740/7841 on 16-24 October 1996.

**Laboratory Method Performance:** All laboratory method performance criteria were met for the reported samples.

**EA Laboratories**  
**ANALYTICAL NARRATIVE**

Client: **USA Waste**  
Site: **Tontitown Landfill**  
Project number: **70110.01**

EA Laboratories Report: **961577**  
Laboratory Project Manager: **R. Thomas Randall**  
Report Date: **25 October 1996**

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Sample Performance: The iron matrix spike recovery (127.4%) was above the upper control limit (125%). Any bias to the sample data is unlikely as the matrix spike duplicate recovery was within control limits. All other quality control criteria were met for the reported samples.

**GENERAL CHEMISTRY - WATER (EA9614486-EA9614497)**

Sample Chronology: Twelve samples were analyzed for the following USEPA methods. All holding times were met for the reported samples. The nitrate value was calculated by subtracting the nitrite result from the nitrate+nitrite result. The bicarbonate results were calculated from the pH, alkalinity, and TDS results

<u>Parameter</u>	<u>Method#</u>	<u>PrepDate</u>	<u>AnalysisDate</u>
TOC	415.1	N/A	1 October 1996
Chloride	325.2	N/A	7 October 1996
Cyanide	335.4	7 October 1996	7 October 1996
Nitrite	353.2	N/A	27 September 1996
Nitrate+nitrite	353.2	N/A	3 October 1996
Ammonia	350.1	8 October 1996	8 October 1996
TDS	160.3	N/A	2 October 1996
COD	410.4	N/A	4 October 1996
Sulfate	375.4	N/A	17 October 1996
pH	150.1	N/A	27 September 1996
Alkalinity	310.1	N/A	9 October 1996

Laboratory Method Performance: The nitrate+nitrite LCS recovery (90.4%) was below the in-house limits of 94-106%. This does not affect the reported results. All other laboratory method performance criteria were met for the reported samples

Sample Performance: All quality control criteria were met for the reported samples

***CERTIFICATION OF RESULTS***

The Laboratory certifies that this report meets the project requirements for analytical data as stated in the Analytical Task Order (ATO) and the chain-of-custody. In addition, the Laboratory certifies that the data as reported meet the Data Quality Objectives for precision, accuracy, and completeness specified for this project or as stated in EA Laboratories Quality Assurance program for other than the conditions detailed above



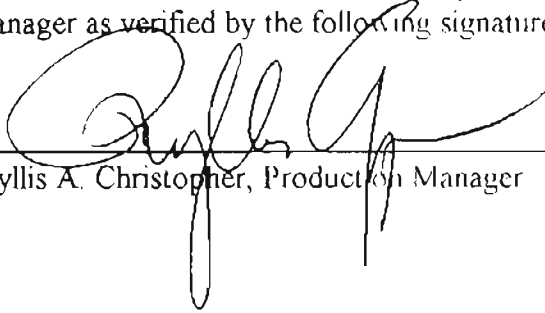
**EA Laboratories**  
**ANALYTICAL NARRATIVE**

Client: **USA Waste**  
Site: **Tontitown Landfill**  
Project number: **70110.01**

EA Laboratories Report: **961577**  
Laboratory Project Manager: **R. Thomas Randall**  
Report Date: **25 October 1996**

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Release of the data contained in this report has been authorized by the appropriate Laboratory Manager as verified by the following signature



25 October 1996

Phyllis A. Christopher, Production Manager

**TABLE 1. ANALYTICAL METHODS**

Parameter	Method	Method Number	Matrix	Reference
SAMPLE PREPARATION				
Total Metals Digestion (EPA/ICP)	Nitric Acid - Hydrochloric Acid	3010	W	(3)
ORGANICS				
Chemical Oxygen Demand	Colorimetric - Manual	410.4	W	(2)
Total Organic Carbon	Oxidation - Infrared	415.2	W	(2)
Volatile Organic Compounds	Gas Chromatography/Mass Spectrometry	8260	W	(3)
METALS				
Aluminum	Atomic Emission - ICP	6010	W	(3)
Arsenic	Atomic Absorption - Furnace	7060	W	(3)
Barium	Atomic Emission - ICP	6010	W	(3)
Cadmium	Atomic Emission - ICP	6010	W	(3)
Calcium	Atomic Emission - ICP	6010	W	(3)
Chromium, Total	Atomic Emission - ICP	6010	W	(3)
Cobalt	Atomic Emission - ICP	6010	W	(3)
Iron	Atomic Emission - ICP	6010	W	(3)
Lead	Atomic Absorption - Furnace	7421	W	(3)

**TABLE 1. ANALYTICAL METHODS**

Parameter	Method	Method Number	Matrix	Reference
Magnesium	Atomic Emission - ICP	6010	W	(3)
Manganese	Atomic Emission - ICP	6010	W	(3)
Mercury	Atomic Absorption - Cold Vapor	7470	W	(3)
Nickel	Atomic Emission - ICP	6010	W	(3)
Potassium	Atomic Emission - ICP	6010	W	(3)
Selenium	Atomic Absorption - Furnace	7740	W	(3)
Silver	Atomic Emission - ICP	6010	W	(3)
Sodium	Atomic Emission - ICP	6010	W	(3)
Thallium	Atomic Absorption - Furnace	7841	W	(3)
Vanadium	Atomic Emission - ICP	6010	W	(3)
Zinc	Atomic Emission - ICP	6010	W	(3)
<b>INORGANIC NONMETALS</b>				
Bicarbonate/Carbonate	Calculation	130.1	W	(1)
Chloride	Colorimetric - Ferricyanide	325.2	W	(2)
Cyanide, Total	Semiautomated Spectrophotometric	335.2	W	(4)
Nitrogen, Ammonia	Colorimetric - Automated Phenate	350.1	W	(2)

**TABLE 1. ANALYTICAL METHODS**

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Nitrogen, Nitrate+Nitrite	Colorimetric - Cadmium Reduction	353.2	W	(2)
Sulfate	Turbidimetric	375.4	W	(2)
PHYSICAL DETERMINATIONS				
Residue, Total Filterable	Gravimetric - 180C	160.1	W	(1)

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**Matrix codes:**

W - Estuarine water, ground water, leachates, ocean water, surface water, and wastewater

**References:**

1. American Public Health Association, American Water Works Association, Water Pollution Control Federation. 1985. Standard Methods for the Examination of Water and Wastewater, 16th edition. APHA, Washington, D.C.
  2. United States Environmental Protection Agency. 1979. Methods for Chemical Analysis of Water and Wastes. EPA-600/4-79-020. U.S. EPA, Cincinnati, Ohio.
  3. United States Environmental Protection Agency. August 1993. Test Methods for Evaluating Solid Waste. Physical/Chemical Methods. EPA SW-846, 3rd edition, including Final Update I. U.S. EPA, Washington, D.C.
  4. United States Environmental Protection Agency. September 1991. U.S. EPA Contract Laboratory Program. Statement of Work for Inorganics Analysis. ILM02.1. U.S. EPA, Washington, D.C.
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## 2. CHAIN OF CUSTODY

Company Name: USA Waste		Project Manager or Contact: Milo Duc / Kevin Hodge		Parameters/Method Numbers for Analysis						Chain of Custody Record							
Project No. 70110.01		Phone:		No. of Containers	APX I VOA 8260	APX I Metals 601/900	Sulfate 375.1	TDS 160.1 / COD 410.4	Ammonia 350.1	Bicarbonate 130.1	Nitrate 353.2	Cyanide 335.2	Chloride 325.2	Metals 601 Series	TOC 415.2	EA Laboratories 19 Loveton Circle Sparks, MD 21152 Telephone: (410) 771-4920 Fax: (410) 771-4407	
Dept.: Task:		Project Name: Torttown Landfill Sept Groundwater														Report Deliverables: 1 2 3 4 D E	
Sample Storage Location: B5		ATO Number:													EDD: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
Page 1 of 1		Report #: 961577													DUE TO CLIENT: 10/17/96		

Date	Time	Water	Soil	Sample Identification 19 Characters	No. of Containers	APX I VOA 8260	APX I Metals 601/900	Sulfate 375.1	TDS 160.1 / COD 410.4	Ammonia 350.1	Bicarbonate 130.1	Nitrate 353.2	Cyanide 335.2	Chloride 325.2	Metals 601 Series	TOC 415.2	EA Labs Accession Number	Remarks
9-25-96	0831	✓		MW-1	7	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	9614486	LPM: Rawdall
"	0915	✓		MW-2	7	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	9614487	601 Series Metals
"	0950	✓		MW-3	7	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	9614488	Ca, Fe, Mg, Mn, K
"	1020	✓		MW-4	7	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	9614489	Na, Hg
"	1350	✓		MW-5	7	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	9614490	
"	1410	✓		MW-6	7	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	9614491	
"	1135	✓		MW-7	7	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	9614492	
"	1110	✓		MW-8	7	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	9614493	
"	1040	✓		MW-10	7	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	9614494	
"	1205	✓		MW-11	7	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	9614495	
"	1230	✓		MW-12	7	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	9614496	
"	1450	✓		Equip. Blank	7	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	9614497	L17232
#	-	✓		Trip Blank	2	✓											9614498	

Samples by: (Signature) Duc		Date/Time 9-25 1600	Relinquished by: (Signature) Hodge		Date/Time	Received by: (Signature)		Date/Time
Relinquished by: (Signature) Duc		Date/Time 9-25 1710	Received by Laboratory: (Signature) Hodge		Date/Time 9/27/96 1000	Airbill Number: 8615205723		Sample Shipped by: (Circle) Fed Ex. Puro. UPS
Cooler Temp: 2.10	pH: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Comments: 12CZ/BZ		Custody Seals Intact	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Hand Carried		Other:

NOTE: Please indicate method number for analyses requested. This will help clarify any questions with laboratory techniques.

• *[Faint, illegible text]*

### 3 VOLATILES DATA



Λ QC Summary

LCS Recovery Report

Lab Name : EA Laboratories File ID : VA1B0058.D Instrument: VA1  
 Sample : VL610071, LCS, WATER, 5ml Date Analyzed: 7 Oct 96 3:24 am  
 Matrix : WATER Date Sampled:  
 Client : Project : Method : 8260W.M

Spike Compound	Spike Added	Spike Res	Spike %Rec	QC Limits % Rec
1,1-Dichloroethene	50	44.6	89	73-125
Benzene	50	48.0	96	77-124
Trichloroethene	50	47.4	95	65-131
Toluene	50	48.5	97	71-142
Chlorobenzene	50	47.1	94	70-145

\* - Indicates values outside of QC limits

This LCS has been checked and is within \ outside current limits

James J. Fuchter J 10/16/96 N/A  
 Analyst Date Non-conformance form no.

# LCS Recovery Report

Lab Name : EA Laboratories    File ID : VA1B0078.D    Instrument: VA1  
 Sample : VL610081, LCS, WATER, 5ml    Date Analyzed: 8 Oct 96 2:13 am  
 Matrix : WATER    Date Sampled:  
 Client :    Project :    Method : 8260W.M

Spike Compound	Spike Added	Spike Res	Spike %Rec	QC Limits % Rec
1,1-Dichloroethene	50	44.3	89	73-125
Benzene	50	49.9	100	77-124
Trichloroethene	50	48.4	97	65-124
Toluene	50	49.2	98	71-142
Chlorobenzene	50	48.8	98	70-145

\* - Indicates values outside of QC limits

This LCS has been checked and is within \ outside current limits

James J. Furlong J                      10/16/96                      N/A  
 Analyst                                      Date                                      Non-conformance form no.

IA  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK01

Lab Name: EA LABORATORIES Contract: \_\_\_\_\_  
 Lab Code: EA ENG Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_  
 Matrix: (soil/water) WATER Lab Sample ID: VB610071  
 Sample wt/vol: 5.0 (g/mL) ML Lab File ID: VA1B0057.D  
 Level: (low/med) \_\_\_\_\_ Date Received: \_\_\_\_\_  
 % Moisture: not dec. 0 Date Analyzed: 10/7/96  
 GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

Concentration Units:

CAS No.	Compound	(ug/L or ug/Kg)	<u>ug/L</u>	Q
74-87-3	Chloromethane		5	U
75-01-4	Vinyl Chloride		5	U
74-83-9	Bromomethane		5	U
75-00-3	Chloroethane		5	U
75-69-4	Trichlorofluoromethane		5	U
67-64-1	Acetone		10	U
75-35-4	1,1-Dichloroethene		5	U
74-88-4	Iodomethane		5	U
75-09-2	Methylene Chloride		5	U
75-15-0	Carbon Disulfide		5	U
107-13-1	Acrylonitrile		50	U
156-60-5	trans-1,2-Dichloroethene		5	U
75-34-3	1,1-Dichloroethane		5	U
108-05-4	Vinyl acetate		10	U
78-93-3	2-Butanone (MEK)		10	U
156-59-2	cis-1,2-Dichloroethene		5	U
67-66-3	Chloroform		5	U
74-97-5	Bromochloromethane		5	U
71-55-6	1,1,1-Trichloroethane		5	U
56-23-5	Carbon Tetrachloride		5	U
107-06-2	1,2-Dichloroethane		5	U
71-43-2	Benzene		5	U
79-01-6	Trichloroethene		5	U
78-87-5	1,2-Dichloropropane		5	U
75-27-4	Bromodichloromethane		5	U
74-95-3	Dibromomethane		5	U
108-10-1	4-Methyl-2-Pentanone		10	U
10061-01-5	cis-1,3-Dichloropropene		5	U
108-88-3	Toluene		5	U
10061-02-6	trans-1,3-Dichloropropene		5	U
79-00-5	1,1,2-Trichloroethane		5	U
106-93-4	1,2-Dibromoethane (EDB)		5	U
591-78-6	2-Hexanone		10	U



1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK02

Lab Name: EA LABORATORIES Contract: \_\_\_\_\_

Lab Code: EA ENG Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) WATER Lab Sample ID: VB610081

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: VA1B0077.D

Level: (low/med) \_\_\_\_\_ Date Received: \_\_\_\_\_

% Moisture: not dec. 0 Date Analyzed: 10/8/96

GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0

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

Concentration Units:

CAS No.	Compound	(ug/L or ug/Kg)	<u>ug/L</u>	Q
74-87-3	Chloromethane		5	U
75-01-4	Vinyl Chloride		5	U
74-83-9	Bromomethane		5	U
75-00-3	Chloroethane		5	U
75-69-4	Trichlorofluoromethane		5	U
67-64-1	Acetone		10	U
75-35-4	1,1-Dichloroethene		5	U
74-88-4	Iodomethane		5	U
75-09-2	Methylene Chloride		5	U
75-15-0	Carbon Disulfide		5	U
107-13-1	Acrylonitrile		50	U
156-60-5	trans-1,2-Dichloroethene		5	U
75-34-3	1,1-Dichloroethane		5	U
108-05-4	Vinyl acetate		10	U
78-93-3	2-Butanone (MEK)		10	U
156-59-2	cis-1,2-Dichloroethene		5	U
67-66-3	Chloroform		5	U
74-97-5	Bromochloromethane		5	U
71-55-6	1,1,1-Trichloroethane		5	U
56-23-5	Carbon Tetrachloride		5	U
107-06-2	1,2-Dichloroethane		5	U
71-43-2	Benzene		5	U
79-01-6	Trichloroethene		5	U
78-87-5	1,2-Dichloropropane		5	U
75-27-4	Bromodichloromethane		5	U
74-95-3	Dibromomethane		5	U
108-10-1	4-Methyl-2-Pentanone		10	U
10061-01-5	cis-1,3-Dichloropropene		5	U
108-88-3	Toluene		5	U
10061-02-6	trans-1,3-Dichloropropene		5	U
79-00-5	1,1,2-Trichloroethane		5	U
106-93-4	1,2-Dibromoethane (EDB)		5	U
591-78-6	2-Hexanone		10	U



10/10/2019 10:10:10 AM

10/10/2019 10:10:10 AM

## B Sample Data



1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW1

Lab Name: EA LABORATORIES Contract: \_\_\_\_\_  
 Lab Code: EA ENG Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_  
 Matrix: (soil/water) WATER Lab Sample ID: 9614486  
 Sample wt/vol: 5.0 (g/mL) ML Lab File ID: VA1B0072.D  
 Level: (low/med) \_\_\_\_\_ Date Received: 9/26/96  
 % Moisture: not dec. 0 Date Analyzed: 10/7/96  
 GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

Concentration Units:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
74-87-3	Chloromethane		5	U
75-01-4	<del>Vinyl Chloride</del>		<del>14</del>	
74-83-9	Bromomethane		5	U
75-00-3	<del>Chloroethane</del>		<del>6</del>	
75-69-4	Trichlorofluoromethane		5	U
67-64-1	Acetone		10	U
75-35-4	1,1-Dichloroethene		5	U
74-88-4	Iodomethane		5	U
75-09-2	Methylene Chloride		5	U
75-15-0	Carbon Disulfide		5	U
107-13-1	Acrylonitrile		50	U
156-60-5	trans-1,2-Dichloroethene		5	U
75-34-3	<del>1,1-Dichloroethane</del>		<del>24</del>	
108-05-4	Vinyl acetate		10	U
78-93-3	2-Butanone (MEK)		10	U
156-59-2	<del>cis-1,2-Dichloroethene</del>		<del>9</del>	
67-66-3	Chloroform		5	U
74-97-5	Bromochloromethane		5	U
71-55-6	1,1,1-Trichloroethane		5	U
56-23-5	Carbon Tetrachloride		5	U
107-06-2	1,2-Dichloroethane		5	U
71-43-2	<del>Benzene</del>		<del>5</del>	
79-01-6	Trichloroethene		5	U
78-87-5	1,2-Dichloropropane		5	U
75-27-4	Bromodichloromethane		5	U
74-95-3	Dibromomethane		5	U
108-10-1	4-Methyl-2-Pentanone		10	U
10061-01-5	cis-1,3-Dichloropropene		5	U
108-88-3	Toluene		5	U
10061-02-6	trans-1,3-Dichloropropene		5	U
79-00-5	1,1,2-Trichloroethane		5	U
106-93-4	1,2-Dibromoethane (EDB)		5	U
591-78-6	2-Hexanone		10	U



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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW2

Lab Name: EA LABORATORIES Contract: \_\_\_\_\_  
 Lab Code: EA ENG Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_  
 Matrix: (soil/water) WATER Lab Sample ID: 9614487  
 Sample wt/vol: 5.0 (g/mL) ML Lab File ID: VA1B0079.D  
 Level: (low/med) \_\_\_\_\_ Date Received: 9/26/96  
 % Moisture: not dec. 0 Date Analyzed: 10/8/96  
 GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

Concentration Units:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
74-87-3	Chloromethane		5	U
75-01-4	Vinyl Chloride		5	U
74-83-9	Bromomethane		5	U
75-00-3	Chloroethane		5	U
75-69-4	Trichlorofluoromethane		5	U
67-64-1	Acetone		10	U
75-35-4	1,1-Dichloroethene		5	U
74-88-4	Iodomethane		5	U
75-09-2	Methylene Chloride		5	U
75-15-0	Carbon Disulfide		5	U
107-13-1	Acrylonitrile		50	U
156-60-5	trans-1,2-Dichloroethene		5	U
75-34-3	1,1-Dichloroethane		5	U
108-05-4	Vinyl acetate		10	U
78-93-3	2-Butanone (MEK)		10	U
156-59-2	cis-1,2-Dichloroethene		5	U
67-66-3	Chloroform		5	U
74-97-5	Bromochloromethane		5	U
71-55-6	1,1,1-Trichloroethane		5	U
56-23-5	Carbon Tetrachloride		5	U
107-06-2	1,2-Dichloroethane		5	U
71-43-2	Benzene		5	U
79-01-6	Trichloroethene		5	U
78-87-5	1,2-Dichloropropane		5	U
75-27-4	Bromodichloromethane		5	U
74-95-3	Dibromomethane		5	U
108-10-1	4-Methyl-2-Pentanone		10	U
10061-01-5	cis-1,3-Dichloropropene		5	U
108-88-3	Toluene		5	U
10061-02-6	trans-1,3-Dichloropropene		5	U
79-00-5	1,1,2-Trichloroethane		5	U
106-93-4	1,2-Dibromoethane (EDB)		5	U
591-78-6	2-Hexanone		10	U



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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW3

Lab Name: EA LABORATORIES Contract: \_\_\_\_\_  
 Lab Code: EA ENG Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_  
 Matrix: (soil/water) WATER Lab Sample ID: 9614488  
 Sample wt/vol: 5.0 (g/mL) ML Lab File ID: VA1B0080.D  
 Level: (low/med) \_\_\_\_\_ Date Received: 9/26/96  
 % Moisture: not dec. 0 Date Analyzed: 10/8/96  
 GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

Concentration Units:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
74-87-3	Chloromethane		5	U
75-01-4	<del>Vinyl Chloride</del>		<del>6</del>	
74-83-9	Bromomethane		5	U
75-00-3	Chloroethane		5	U
75-69-4	Trichlorofluoromethane		5	U
67-64-1	Acetone		10	U
75-35-4	1,1-Dichloroethene		5	U
74-88-4	Iodomethane		5	U
75-09-2	Methylene Chloride		5	U
75-15-0	Carbon Disulfide		5	U
107-13-1	Acrylonitrile		50	U
156-60-5	trans-1,2-Dichloroethene		5	U
75-34-3	<del>1,1-Dichloroethane</del>		<del>3</del>	<del>J</del>
108-05-4	Vinyl acetate		10	U
78-93-3	2-Butanone (MEK)		10	U
156-59-2	cis-1,2-Dichloroethene		5	U
67-66-3	Chloroform		5	U
74-97-5	Bromochloromethane		5	U
71-55-6	1,1,1-Trichloroethane		5	U
56-23-5	Carbon Tetrachloride		5	U
107-06-2	1,2-Dichloroethane		5	U
71-43-2	Benzene		5	U
79-01-6	Trichloroethene		5	U
78-87-5	1,2-Dichloropropane		5	U
75-27-4	Bromodichloromethane		5	U
74-95-3	Dibromomethane		5	U
108-10-1	4-Methyl-2-Pentanone		10	U
10061-01-5	cis-1,3-Dichloropropene		5	U
108-88-3	Toluene		5	U
10061-02-6	trans-1,3-Dichloropropene		5	U
79-00-5	1,1,2-Trichloroethane		5	U
106-93-4	1,2-Dibromoethane (EDB)		5	U
591-78-6	2-Hexanone		10	U



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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW4

Lab Name: EA LABORATORIES Contract: \_\_\_\_\_  
 Lab Code: EA ENG Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_  
 Matrix: (soil/water) WATER Lab Sample ID: 9614489  
 Sample wt/vol: 5.0 (g/mL) ML Lab File ID: VA1B0083.D  
 Level: (low/med) \_\_\_\_\_ Date Received: 9/26/96  
 % Moisture: not dec. 0 Date Analyzed: 10/8/96  
 GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

Concentration Units:

CAS No.	Compound	(ug/L or ug/Kg)	<u>ug/L</u>	Q
74-87-3	Chloromethane		5	U
75-01-4	<del>Vinyl Chloride</del>		<del>7</del>	
74-83-9	Bromomethane		5	U
75-00-3	Chloroethane		5	U
75-69-4	Trichlorofluoromethane		5	U
67-64-1	Acetone		10	U
75-35-4	1,1-Dichloroethene		5	U
74-88-4	Iodomethane		5	U
75-09-2	Methylene Chloride		5	U
75-15-0	Carbon Disulfide		5	U
107-13-1	Acrylonitrile		50	U
156-60-5	trans-1,2-Dichloroethene		5	U
75-34-3	<del>1,1-Dichloroethane</del>		<del>10</del>	
108-05-4	Vinyl acetate		10	U
78-93-3	2-Butanone (MEK)		10	U
156-59-2	<del>cis-1,2-Dichloroethene</del>		<del>16</del>	
67-66-3	Chloroform		5	U
74-97-5	Bromochloromethane		5	U
71-55-6	1,1,1-Trichloroethane		5	U
56-23-5	Carbon Tetrachloride		5	U
107-06-2	1,2-Dichloroethane		5	U
71-43-2	<del>Benzene</del>		<del>3</del>	<del>J</del>
79-01-6	<del>Trichloroethene</del>		<del>4</del>	<del>J</del>
78-87-5	1,2-Dichloropropane		5	U
75-27-4	Bromodichloromethane		5	U
74-95-3	Dibromomethane		5	U
108-10-1	4-Methyl-2-Pentanone		10	U
10061-01-5	cis-1,3-Dichloropropene		5	U
108-88-3	Toluene		5	U
10061-02-6	trans-1,3-Dichloropropene		5	U
79-00-5	1,1,2-Trichloroethane		5	U
106-93-4	1,2-Dibromoethane (EDB)		5	U
591-78-6	2-Hexanone		10	U





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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW5

Lab Name: EA LABORATORIES Contract: \_\_\_\_\_  
 Lab Code: EA ENG Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_  
 Matrix: (soil/water) WATER Lab Sample ID: 9614490  
 Sample wt/vol: 5.0 (g/mL) ML Lab File ID: VA1B0084.D  
 Level: (low/med) \_\_\_\_\_ Date Received: 9/26/96  
 % Moisture: not dec. 0 Date Analyzed: 10/8/96  
 GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

Concentration Units:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
74-87-3	Chloromethane	5		U
75-01-4	Vinyl Chloride	5		U
74-83-9	Bromomethane	5		U
75-00-3	Chloroethane	5		U
75-69-4	Trichlorofluoromethane	4		U
67-64-1	Acetone	10		U
75-35-4	1,1-Dichloroethene	5		U
74-88-4	Iodomethane	5		U
75-09-2	Methylene Chloride	5		U
75-15-0	Carbon Disulfide	5		U
107-13-1	Acrylonitrile	50		U
156-60-5	trans-1,2-Dichloroethene	5		U
75-34-3	1,1-Dichloroethane	6		
108-05-4	Vinyl acetate	10		U
78-93-3	2-Butanone (MEK)	10		U
156-59-2	cis-1,2-Dichloroethene	5		U
67-66-3	Chloroform	5		U
74-97-5	Bromochloromethane	5		U
71-55-6	1,1,1-Trichloroethane	5		U
56-23-5	Carbon Tetrachloride	5		U
107-06-2	1,2-Dichloroethane	5		U
71-43-2	Benzene	5		U
79-01-6	Trichloroethene	5		U
78-87-5	1,2-Dichloropropane	5		U
75-27-4	Bromodichloromethane	5		U
74-95-3	Dibromomethane	5		U
108-10-1	4-Methyl-2-Pentanone	10		U
10061-01-5	cis-1,3-Dichloropropene	5		U
108-88-3	Toluene	5		U
10061-02-6	trans-1,3-Dichloropropene	5		U
79-00-5	1,1,2-Trichloroethane	5		U
106-93-4	1,2-Dibromoethane (EDB)	5		U
591-78-6	2-Hexanone	10		U



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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW6

Lab Name: EA LABORATORIES Contract: \_\_\_\_\_

Lab Code: EA ENG Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) WATER Lab Sample ID: 9614491

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: VA1B0085.D

Level: (low/med) \_\_\_\_\_ Date Received: 9/26/96

% Moisture: not dec. 0 Date Analyzed: 10/8/96

GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0

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

Concentration Units:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
74-87-3	Chloromethane	5		U
75-01-4	<del>Vinyl Chloride</del>	<del>5</del>		
74-83-9	Bromomethane	5		U
75-00-3	Chloroethane	5		U
75-69-4	Trichlorofluoromethane	5		U
67-64-1	Acetone	10		U
75-35-4	1,1-Dichloroethene	5		U
74-88-4	Iodomethane	5		U
75-09-2	Methylene Chloride	5		U
75-15-0	Carbon Disulfide	5		U
107-13-1	Acrylonitrile	50		U
156-60-5	trans-1,2-Dichloroethene	5		U
75-34-3	<del>1,1-Dichloroethane</del>	<del>5</del>		
108-05-4	Vinyl acetate	10		U
78-93-3	2-Butanone (MEK)	10		U
156-59-2	cis-1,2-Dichloroethene	5		U
67-66-3	Chloroform	5		U
74-97-5	Bromochloromethane	5		U
71-55-6	1,1,1-Trichloroethane	5		U
56-23-5	Carbon Tetrachloride	5		U
107-06-2	1,2-Dichloroethane	5		U
71-43-2	Benzene	5		U
79-01-6	<del>Trichloroethene</del>	<del>3</del>		<del>U</del>
78-87-5	1,2-Dichloropropane	5		U
75-27-4	Bromodichloromethane	5		U
74-95-3	Dibromomethane	5		U
108-10-1	4-Methyl-2-Pentanone	10		U
10061-01-5	cis-1,3-Dichloropropene	5		U
108-88-3	Toluene	5		U
10061-02-6	trans-1,3-Dichloropropene	5		U
79-00-5	1,1,2-Trichloroethane	5		U
106-93-4	1,2-Dibromoethane (EDB)	5		U
591-78-6	2-Hexanone	10		U



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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW7

Lab Name: EA LABORATORIES Contract: \_\_\_\_\_  
 Lab Code: EA ENG Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_  
 Matrix: (soil/water) WATER Lab Sample ID: 9614492  
 Sample wt/vol: 5.0 (g/mL) ML Lab File ID: VA1B0086.D  
 Level: (low/med) \_\_\_\_\_ Date Received: 9/26/96  
 % Moisture: not dec. 0 Date Analyzed: 10/8/96  
 GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

Concentration Units:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
74-87-3	Chloromethane		5	U
75-01-4	Vinyl Chloride		5	U
74-83-9	Bromomethane		5	U
75-00-3	Chloroethane		5	U
75-69-4	Trichlorofluoromethane		5	U
67-64-1	<del>Acetone</del>		<del>36</del>	
75-35-4	1,1-Dichloroethene		5	U
74-88-4	Iodomethane		5	U
75-09-2	Methylene Chloride		5	U
75-15-0	Carbon Disulfide		5	U
107-13-1	Acrylonitrile		50	U
156-60-5	trans-1,2-Dichloroethene		5	U
75-34-3	<del>1,1-Dichloroethane</del>		<del>3</del>	
108-05-4	Vinyl acetate		10	U
78-93-3	2-Butanone (MEK)		10	U
156-59-2	<del>cis-1,2-Dichloroethene</del>		<del>7</del>	
67-66-3	Chloroform		5	U
74-97-5	Bromochloromethane		5	U
71-55-6	1,1,1-Trichloroethane		5	U
56-23-5	Carbon Tetrachloride		5	U
107-06-2	1,2-Dichloroethane		5	U
71-43-2	Benzene		5	U
79-01-6	Trichloroethene		5	U
78-87-5	1,2-Dichloropropane		5	U
75-27-4	Bromodichloromethane		5	U
74-95-3	Dibromomethane		5	U
108-10-1	4-Methyl-2-Pentanone		10	U
10061-01-5	cis-1,3-Dichloropropene		5	U
108-88-3	Toluene		5	U
10061-02-6	trans-1,3-Dichloropropene		5	U
79-00-5	1,1,2-Trichloroethane		5	U
106-93-4	1,2-Dibromoethane (EDB)		5	U
591-78-6	2-Hexanone		10	U



IA  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW8

Lab Name: EA LABORATORIES Contract: \_\_\_\_\_  
 Lab Code: EA ENG Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_  
 Matrix: (soil/water) WATER Lab Sample ID: 9614493  
 Sample wt/vol: 5.0 (g/mL) ML Lab File ID: VA1B0087.D  
 Level: (low/med) \_\_\_\_\_ Date Received: 9/26/96  
 % Moisture: not dec. 0 Date Analyzed: 10/8/96  
 GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

Concentration Units:

CAS No.	Compound	(ug/L or ug/Kg)	<u>ug/L</u>	Q
74-87-3	Chloromethane		5	U
75-01-4	Vinyl Chloride		5	U
74-83-9	Bromomethane		5	U
75-00-3	Chloroethane		5	U
75-69-4	Trichlorofluoromethane		5	U
67-64-1	Acetone		10	U
75-35-4	1,1-Dichloroethene		5	U
74-88-4	Iodomethane		5	U
75-09-2	Methylene Chloride		5	U
75-15-0	Carbon Disulfide		5	U
107-13-1	Acrylonitrile		50	U
156-60-5	trans-1,2-Dichloroethene		5	U
75-34-3	1,1-Dicbloroethane		5	U
108-05-4	Vinyl acetate		10	U
78-93-3	2-Butanone (MEK)		10	U
156-59-2	cis-1,2-Dichloroethene		5	U
67-66-3	Chloroform		5	U
74-97-5	Bromochloromethane		5	U
71-55-6	1,1,1-Trichloroethane		5	U
56-23-5	Carbon Tetrachloride		5	U
107-06-2	1,2-Dichloroetbane		5	U
71-43-2	Benzene		5	U
79-01-6	Trichloroethene		5	U
78-87-5	1,2-Dichloropropane		5	U
75-27-4	Bromodichloromethane		5	U
74-95-3	Dibromomethane		5	U
108-10-1	4-Methyl-2-Pentanone		10	U
10061-01-5	cis-1,3-Dichloropropene		5	U
108-88-3	Toluene		5	U
10061-02-6	trans-1,3-Dichloropropene		5	U
79-00-5	1,1,2-Trichloroethane		5	U
106-93-4	1,2-Dibromoethane (EDB)		5	U
591-78-6	2-Hexanone		10	U





1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW10

Lab Name: EA LABORATORIES Contract: \_\_\_\_\_  
 Lab Code: EA ENG Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_  
 Matrix: (soil/water) WATER Lab Sample ID: 9614494  
 Sample wt/vol: 5.0 (g/mL) ML Lab File ID: VA1B0088.D  
 Level: (low/med) \_\_\_\_\_ Date Received: 9/26/96  
 % Moisture: not dec. 0 Date Analyzed: 10/8/96  
 GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

Concentration Units:

CAS No.	Compound	(ug/L or ug/Kg)	<u>ug/L</u>	Q
74-87-3	Chloromethane	5		U
75-01-4	Vinyl Chloride	5		U
74-83-9	Bromomethane	5		U
75-00-3	Chloroethane	5		U
75-69-4	Trichlorofluoromethane	5		U
67-64-1	Acetone	10		U
75-35-4	1,1-Dichloroethene	5		U
74-88-4	Iodomethane	5		U
75-09-2	Methylene Chloride	5		U
75-15-0	Carbon Disulfide	5		U
107-13-1	Acrylonitrile	50		U
156-60-5	trans-1,2-Dichloroethene	5		U
75-34-3	1,1-Dichloroethane	5		U
108-05-4	Vinyl acetate	10		U
78-93-3	2-Butanone (MEK)	10		U
156-59-2	cis-1,2-Dichloroethene	5		U
67-66-3	Chloroform	5		U
74-97-5	Bromochloromethane	5		U
71-55-6	1,1,1-Trichloroethane	5		U
56-23-5	Carbon Tetrachloride	5		U
107-06-2	1,2-Dichloroethane	5		U
71-43-2	Benzene	5		U
79-01-6	Trichloroethene	5		U
78-87-5	1,2-Dichloropropane	5		U
75-27-4	Bromodichloromethane	5		U
74-95-3	Dibromomethane	5		U
108-10-1	4-Methyl-2-Pentanone	10		U
10061-01-5	cis-1,3-Dichloropropene	5		U
108-88-3	Toluene	5		U
10061-02-6	trans-1,3-Dichloropropene	5		U
79-00-5	1,1,2-Trichloroethane	5		U
106-93-4	1,2-Dibromoethane (EDB)	5		U
591-78-6	2-Hexanone	10		U



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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW11

Lab Name: EA LABORATORIES Contract: \_\_\_\_\_  
 Lab Code: EA ENG Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_  
 Matrix: (soil/water) WATER Lab Sample ID: 9614495  
 Sample wt/vol: 5.0 (g/mL) ML Lab File ID: VA1B0089.D  
 Level: (low/med) \_\_\_\_\_ Date Received: 9/26/96  
 % Moisture: not dec. 0 Date Analyzed: 10/8/96  
 GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

Concentration Units:

CAS No.	Compound	(ug/L or ug/Kg)	<u>ug/L</u>	Q
74-87-3	Chloromethane		5	U
75-01-4	Vinyl Chloride		5	U
74-83-9	Bromomethane		5	U
75-00-3	Chloroethane		5	U
75-69-4	Trichlorofluoromethane		5	U
67-64-1	Acetone		10	U
75-35-4	1,1-Dichloroethene		5	U
74-88-4	Iodomethane		5	U
75-09-2	Methylene Chloride		5	U
75-15-0	Carbon Disulfide		5	U
107-13-1	Acrylonitrile		50	U
156-60-5	trans-1,2-Dichloroethene		5	U
75-34-3	1,1-Dichloroethane		5	U
108-05-4	Vinyl acetate		10	U
78-93-3	2-Butanone (MEK)		10	U
156-59-2	cis-1,2-Dichloroethene		5	U
67-66-3	Chloroform		5	U
74-97-5	Bromochloromethane		5	U
71-55-6	1,1,1-Trichloroethane		5	U
56-23-5	Carbon Tetrachloride		5	U
107-06-2	1,2-Dichloroethane		5	U
71-43-2	Benzene		5	U
79-01-6	Trichloroethene		5	U
78-87-5	1,2-Dichloropropane		5	U
75-27-4	Bromodichloromethane		5	U
74-95-3	Dibromomethane		5	U
108-10-1	4-Methyl-2-Pentanone		10	U
10061-01-5	cis-1,3-Dichloropropene		5	U
108-88-3	Toluene		5	U
10061-02-6	trans-1,3-Dichloropropene		5	U
79-00-5	1,1,2-Trichloroethane		5	U
106-93-4	1,2-Dibromoethane (EDB)		5	U
591-78-6	2-Hexanone		10	U



1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW12

Lab Name: EA LABORATORIES Contract: \_\_\_\_\_

Lab Code: EA ENG Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) WATER Lab Sample ID: 9614496

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: VA1B0090.D

Level: (low/med) \_\_\_\_\_ Date Received: 9/26/96

% Moisture: not dec. 0 Date Analyzed: 10/8/96

GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0

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

Concentration Units:

CAS No.	Compound	(ug/L or ug/Kg)	<u>ug/L</u>	Q
74-87-3	Chloromethane		5	U
75-01-4	Vinyl Chloride		5	U
74-83-9	Bromomethane		5	U
75-00-3	Chloroethane		5	U
75-69-4	Trichlorofluoromethane		5	U
67-64-1	Acetone		10	U
75-35-4	1,1-Dichloroethene		5	U
74-88-4	Iodomethane		5	U
75-09-2	Methylene Chloride		5	U
75-15-0	Carbon Disulfide		5	U
107-13-1	Acrylonitrile		50	U
156-60-5	trans-1,2-Dichloroethene		5	U
75-34-3	1,1-Dichloroethane		5	U
108-05-4	Vinyl acetate		10	U
78-93-3	2-Butanone (MEK)		10	U
156-59-2	cis-1,2-Dichloroethene		5	U
67-66-3	Chloroform		5	U
74-97-5	Bromochloromethane		5	U
71-55-6	1,1,1-Trichloroethane		5	U
56-23-5	Carbon Tetrachloride		5	U
107-06-2	1,2-Dichloroethane		5	U
71-43-2	Benzene		5	U
79-01-6	Trichloroethene		5	U
78-87-5	1,2-Dichloropropane		5	U
75-27-4	Bromodichloromethane		5	U
74-95-3	Dibromomethane		5	U
108-10-1	4-Methyl-2-Pentanone		10	U
10061-01-5	cis-1,3-Dichloropropene		5	U
108-88-3	Toluene		5	U
10061-02-6	trans-1,3-Dichloropropene		5	U
79-00-5	1,1,2-Trichloroethane		5	U
106-93-4	1,2-Dibromoethane (EDB)		5	U
591-78-6	2-Hexanone		10	U



1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EQUIPBLANK

Lab Name: EA LABORATORIES Contract: \_\_\_\_\_  
 Lab Code: EA ENG Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_  
 Matrix: (soil/water) WATER Lab Sample ID: 9614497  
 Sample wt/vol: 5.0 (g/mL) ML Lab File ID: VA1B0069.D  
 Level: (low/med) \_\_\_\_\_ Date Received: 9/26/96  
 % Moisture: not dec. 0 Date Analyzed: 10/7/96  
 GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

Concentration Units:

CAS No.	Compound	(ug/L or ug/Kg)	<u>ug/L</u>	Q
74-87-3	Chloromethane	5		U
75-01-4	Vinyl Chloride	5		U
74-83-9	Bromomethane	5		U
75-00-3	Chloroethane	5		U
75-69-4	Trichlorofluoromethane	5		U
67-64-1	Acetone	10		U
75-35-4	1,1-Dichloroethene	5		U
74-88-4	Iodomethane	5		U
75-09-2	Methylene Chloride	5		U
75-15-0	Carbon Disulfide	5		U
107-13-1	Acrylonitrile	50		U
156-60-5	trans-1,2-Dichloroethene	5		U
75-34-3	1,1-Dichloroethane	5		U
108-05-4	Vinyl acetate	10		U
78-93-3	2-Butanone (MEK)	10		U
156-59-2	cis-1,2-Dichloroethene	5		U
67-66-3	<del>Chloroform</del>	<del>37</del>		
74-97-5	Bromo-chloromethane	5		U
71-55-6	1,1,1-Trichloroethane	5		U
56-23-5	Carbon Tetrachloride	5		U
107-06-2	1,2-Dichloroethane	5		U
71-43-2	Benzene	5		U
79-01-6	Trichloroethene	5		U
78-87-5	1,2-Dichloropropane	5		U
75-27-4	<del>Bromodichloromethane</del>	<del>2</del>		<del>J</del>
74-95-3	Dibromomethane	5		U
108-10-1	4-Methyl-2-Pentanone	10		U
10061-01-5	cis-1,3-Dichloropropene	5		U
108-88-3	Toluene	5		U
10061-02-6	trans-1,3-Dichloropropene	5		U
79-00-5	1,1,2-Trichloroethane	5		U
106-93-4	1,2-Dibromoethane (EDB)	5		U
591-78-6	2-Hexanone	10		U





1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TRIPBLANK

Lab Name: EA LABORATORIES Contract: \_\_\_\_\_

Lab Code: EA ENG Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) WATER Lab Sample ID: 9614498

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: VA1B0070.D

Level: (low/med) \_\_\_\_\_ Date Received: 9/26/96

% Moisture: not dec. 0 Date Analyzed: 10/7/96

GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0

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

Concentration Units:

CAS No.	Compound	(ug/L or ug/Kg)	<u>ug/L</u>	Q
74-87-3	Chloromethane		5	U
75-01-4	Vinyl Chloride		5	U
74-83-9	Bromomethane		5	U
75-00-3	Chloroethane		5	U
75-69-4	Trichlorofluoromethane		5	U
67-64-1	Acetone		10	U
75-35-4	1,1-Dichloroethene		5	U
74-88-4	Iodomethane		5	U
75-09-2	Methylene Chloride		5	U
75-15-0	Carbon Disulfide		5	U
107-13-1	Acrylonitrile		50	U
156-60-5	trans-1,2-Dichloroethene		5	U
75-34-3	1,1-Dichloroethane		5	U
108-05-4	Vinyl acetate		10	U
78-93-3	2-Butanone (MEK)		10	U
156-59-2	cis-1,2-Dichloroethene		5	U
67-66-3	Chloroform		5	U
74-97-5	Bromochloromethane		5	U
71-55-6	1,1,1-Trichloroethane		5	U
56-23-5	Carbon Tetrachloride		5	U
107-06-2	1,2-Dichloroethane		5	U
71-43-2	Benzene		5	U
79-01-6	Trichloroethene		5	U
78-87-5	1,2-Dichloropropane		5	U
75-27-4	Bromodichloromethane		5	U
74-95-3	Dibromomethane		5	U
108-10-1	4-Methyl-2-Pentanone		10	U
10061-01-5	cis-1,3-Dichloropropene		5	U
108-88-3	Toluene		5	U
10061-02-6	trans-1,3-Dichloropropene		5	U
79-00-5	1,1,2-Trichloroethane		5	U
106-93-4	1,2-Dibromoethane (EDB)		5	U
591-78-6	2-Hexanone		10	U



#### 4. METALS DATA

## A. Analytical Results

## EA LABORATORIES ANALYTICAL REPORT SUMMARY

### TOTAL METALS RESULTS FOR USA WASTE REPORT #961577 EA SAMPLE 9614486 - MW-1

	<u>ug/L</u>
Antimony	<6.0
Arsenic	<10.0
Barium	<200
Beryllium	<5.0
Cadmium	<5.0
Calcium	197000
Chromium	<10.0
Cobalt	71.1
Copper	<10.0
Iron	<del>4600</del>
Lead	<3.0
Magnesium	4640
Manganese	<del>8940</del>
Mercury	<0.20
Nickel	178
Potassium	3290
Selenium	<5.0
Silver	<10.0
Sodium	27900
Thallium	<10.0
Vanadium	<50.0
Zinc	366

**EA LABORATORIES ANALYTICAL REPORT SUMMARY**

**TOTAL METALS RESULTS FOR USA WASTE REPORT #961577  
EA SAMPLE 9614487 - MW-2**

	<u>ug/L</u>
Antimony	<6.0
Arsenic	<10.0
Barium	<200
Beryllium	<5.0
Cadmium	<5.0
Calcium	48000
Chromium	<10.0
Cobalt	<50.0
Copper	<10.0
Iron	251
Lead	<3.0
Magnesium	830
Manganese	<15.0
Mercury	<0.20
Nickel	<40.0
Potassium	<1000
Selenium	<5.0
Silver	<10.0
Sodium	5780
Thallium	<10.0
Vanadium	<50.0
Zinc	<20.0

EA LABORATORIES ANALYTICAL REPORT SUMMARY

TOTAL METALS RESULTS FOR USA WASTE REPORT #961577  
EA SAMPLE 9614488 - MW-3

	<u>ug/L</u>
Antimony	<6.0
Arsenic	<10.0
Barium	<200
Beryllium	<5.0
Cadmium	<5.0
Calcium	68200
Chromium	<10.0
Cobalt	<50.0
Copper	<10.0
Iron	<del>334</del>
Lead	<3.0
Magnesium	2030
Manganese	<del>210</del>
Mercury	<0.20
Nickel	43.3
Potassium	1440
Selenium	<5.0
Silver	<10.0
Sodium	3260
Thallium	<10.0
Vanadium	<50.0
Zinc	61.4

EA LABORATORIES ANALYTICAL REPORT SUMMARY

TOTAL METALS RESULTS FOR USA WASTE REPORT #961577  
EA SAMPLE 9614489 - MW-4

	<u>ug/L</u>
Antimony	<6.0
Arsenic	<10.0
Barium	<200
Beryllium	<5.0
Cadmium	<5.0
Calcium	235000
Chromium	<10.0
Cobalt	<50.0
Copper	<10.0
Iron	<del>1010</del>
Lead	<3.0
Magnesium	3130
Manganese	<del>9320</del>
Mercury	<0.20
Nickel	386
Potassium	1370
Selenium	<5.0
Silver	<10.0
Sodium	7000
Thallium	<10.0
Vanadium	<50.0
Zinc	78.6



## EA LABORATORIES ANALYTICAL REPORT SUMMARY

### TOTAL METALS RESULTS FOR USA WASTE REPORT #961577 EA SAMPLE 9614490 - MW-5

	<u>ug/L</u>
Antimony	<6.0
Arsenic	<10.0
Barium	<200
Beryllium	<5.0
Cadmium	<5.0
Calcium	148000
Chromium	<10.0
Cobalt	<50.0
Copper	<10.0
Iron	<100
Lead	<3.0
Magnesium	2040
Manganese	<15.0
Mercury	<0.20
Nickel	<40.0
Potassium	1370
Selenium	<5.0
Silver	<10.0
Sodium	14600
Thallium	<10.0
Vanadium	<50.0
Zinc	67.9

EA LABORATORIES ANALYTICAL REPORT SUMMARY

TOTAL METALS RESULTS FOR USA WASTE REPORT #961577  
EA SAMPLE 9614491 - MW-6

	<u>ug/L</u>
Antimony	<6.0
Arsenic	<10.0
Barium	<200
Beryllium	<5.0
Cadmium	<5.0
Calcium	112000
Chromium	<10.0
Cobalt	<50.0
Copper	<10.0
Iron	<100
Lead	<3.0
Magnesium	2200
Manganese	41.3
Mercury	<0.20
Nickel	<40.0
Potassium	1260
Selenium	<5.0
Silver	<10.0
Sodium	8510
Thallium	<10.0
Vanadium	<50.0
Zinc	33.1

## EA LABORATORIES ANALYTICAL REPORT SUMMARY

### TOTAL METALS RESULTS FOR USA WASTE REPORT #961577 EA SAMPLE 9614492 - MW-7

	<u>ug/L</u>
Antimony	<6.0
Arsenic	<10.0
Barium	<200
Beryllium	<5.0
Cadmium	<5.0
Calcium	137000
Chromium	<10.0
Cobalt	<50.0
Copper	<10.0
Iron	<100
Lead	<3.0
Magnesium	2300
Manganese	<del>1060</del>
Mercury	<0.20
Nickel	<40.0
Potassium	1720
Selenium	<5.0
Silver	<10.0
Sodium	6170
Thallium	<10.0
Vanadium	<50.0
Zinc	68.7

EA LABORATORIES ANALYTICAL REPORT SUMMARY

TOTAL METALS RESULTS FOR USA WASTE REPORT #961577  
EA SAMPLE 9614493 - MW-8

	<u>ug/L</u>
Antimony	<6.0
Arsenic	<10.0
Barium	<200
Beryllium	<5.0
Cadmium	<5.0
Calcium	86000
Chromium	<10.0
Cobalt	<50.0
Copper	<10.0
Iron	110
Lead	<3.0
Magnesium	1180
Manganese	<15.0
Mercury	<0.20
Nickel	<40.0
Potassium	2170
Selenium	<5.0
Silver	<10.0
Sodium	4970
Thallium	<10.0
Vanadium	<50.0
Zinc	<20.0

**EA LABORATORIES ANALYTICAL REPORT SUMMARY**

**TOTAL METALS RESULTS FOR USA WASTE REPORT #961577**

**EA SAMPLE 9614494 - MW-10**

	<u>ug/L</u>
Antimony	<6.0
Arsenic	<10.0
Barium	<200
Beryllium	<5.0
Cadmium	<5.0
Calcium	47900
Chromium	<10.0
Cobalt	<50.0
Copper	<10.0
Iron	<100
Lead	<3.0
Magnesium	7870
Manganese	<15.0
Mercury	<0.20
Nickel	<40.0
Potassium	1060
Selenium	<5.0
Silver	<10.0
Sodium	4330
Thallium	<10.0
Vanadium	<50.0
Zinc	<20.0

EA LABORATORIES ANALYTICAL REPORT SUMMARY

TOTAL METALS RESULTS FOR USA WASTE REPORT #961577  
EA SAMPLE 9614495 - MW-11

	<u>ug/L</u>
Antimony	<6.0
Arsenic	<10.0
Barium	<200
Beryllium	<5.0
Cadmium	<5.0
Calcium	94800
Chromium	<10.0
Cobalt	<50.0
Copper	<10.0
Iron	514
Lead	3.7
Magnesium	<1000
Manganese	22.7
Mercury	<0.20
Nickel	<40.0
Potassium	3400
Selenium	<5.0
Silver	<10.0
Sodium	4540
Thallium	<10.0
Vanadium	<50.0
Zinc	44.4

**EA LABORATORIES ANALYTICAL REPORT SUMMARY**

**TOTAL METALS RESULTS FOR USA WASTE REPORT #961577  
EA SAMPLE 9614496 - MW-12**

	<u>ug/L</u>
Antimony	<6.0
Arsenic	<10.0
Barium	<200
Beryllium	<5.0
Cadmium	<5.0
Calcium	87200
Chromium	<10.0
Cobalt	<50.0
Copper	<10.0
Iron	<100
Lead	<3.0
Magnesium	1180
Manganese	<15.0
Mercury	<0.20
Nickel	<40.0
Potassium	2180
Selenium	<5.0
Silver	<10.0
Sodium	4960
Thallium	<10.0
Vanadium	<50.0
Zinc	<20.0

EA LABORATORIES ANALYTICAL REPORT SUMMARY

TOTAL METALS RESULTS FOR USA WASTE REPORT #961577  
EA SAMPLE 9614497 - EQUIP BLANK

	<u>ug/L</u>
Antimony	<6.0
Arsenic	<10.0
Barium	<200
Beryllium	<5.0
Cadmium	<5.0
Calcium	<1000
Chromium	<10.0
Cobalt	<50.0
Copper	<10.0
Iron	<100
Lead	<3.0
Magnesium	<1000
Manganese	<15.0
Mercury	<0.20
Nickel	<40.0
Potassium	<1000
Selenium	<5.0
Silver	<10.0
Sodium	1070
Thallium	<10.0
Vanadium	<50.0
Zinc	<20.0



B. QC Data

**EA LABORATORIES**  
**LCS Recovery Report**

Client: USA Waste  
Project: Tontitown Landfill  
Date Analyzed: 16-24 October 1996

Matrix: water  
Method: SW846  
Units: µg/L

Liquid LCS

<u>Parameter</u>	<u>True Conc.</u>	<u>Found Conc.</u>	<u>% rec</u>
Antimony	500	446	89.2
Arsenic	25.0	22.0	88.0
Barium	2000	1870	93.5
Beryllium	50.0	47.9	95.8
Cadmium	50.0	44.9	89.8
Calcium	10000	9610	96.1
Chromium	200	198	99.0
Cobalt	500	479	95.8
Copper	250	247	98.8
Iron	1000	982	98.2
Lead	25.0	21.8	87.2
Magnesium	10000	9300	93.0
Manganese	500	479	95.8
Mercury	4.0	4.1	102.5
Nickel	500	489	97.8
Potassium	10000	9610	96.1
Selenium	50.0	41.4	82.8
Silver	500	438	87.6
Sodium	10000	10300	103.0
Thallium	25.0	21.0	84.0
Vanadium	500	486	97.2
Zinc	500	455	91.0

**EA LABORATORIES**  
**Method Blank Report**

Client: USA Waste  
Project: Tontitown Landfill  
Date Analyzed: 16-24 October 1996

Method: SW846  
Matrix: water  
Units:  $\mu\text{g/L}$

<u>Parameter</u>	<u>Reporting Limit</u>	<u>Blank result</u>
Antimony	6.0	< 6.0
Arsenic	10.0	< 10.0
Barium	200	< 200
Beryllium	5.0	< 5.0
Cadmium	5.0	< 5.0
Calcium	1000	< 1000
Chromium	10.0	< 10.0
Cobalt	50.0	< 50.0
Copper	10.0	< 10.0
Iron	100	< 100
Lead	3.0	< 3.0
Magnesium	1000	< 1000
Manganese	15.0	< 15.0
Mercury	0.20	< 0.20
Nickel	40.0	< 40.0
Potassium	1000	< 1000
Selenium	5.0	< 5.0
Silver	10.0	< 10.0
Sodium	1000	< 1000
Thallium	10.0	< 10.0
Vanadium	50.0	< 50.0
Zinc	20.0	< 20.0

## 5 GENERAL CHEMISTRY DATA

## A. Analytical Results

FORM I  
SAMPLE ANALYSIS RESULTS

Lab Name: EA Laboratories  
SAS Case No.: 7011001  
EPA Sample No.: MW-1  
Sample matrix: WATER  
Total Solids: %

Contract: USA WASTE  
SDG No.: 9614486  
Lab Sample ID No.: 9614486  
Date Received: 09/26/96

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Lab ID	Parameter	Sample Conc.	Concentration Units	Analyzed Date
9614486	AMMONIA	0.38	mg N/L	10/08/96
	BICARBONATE	535	mg CaCO3/L	10/17/96
	CHLORIDE	41.7	mg/L	10/07/96
	COD	35.0	mg/L	10/04/96
	CYANIDE	<0.010	mg/L	10/07/96
	NITRATE	0.31	mg N/L	10/03/96
	SULFATE	3.6	mg/L	10/17/96
	TDS	<del>526</del>	mg/L	10/02/96
	TOC	5.0	mg/L	10/01/96

FORM I  
SAMPLE ANALYSIS RESULTS

Lab Name: EA Laboratories  
 SAS Case No.: 7011001  
 EPA Sample No.: MW-2  
 Sample matrix: WATER  
 Total Solids: %

Contract: USA WASTE  
 SDG No.: 9614486  
 Lab Sample ID No.: 9614487  
 Date Received: 09/26/96

Lab ID	Parameter	Sample Conc.	Concentration Units	Analyzed Date
614487	AMMONIA	<0.10	mg N/L	10/08/96
	BICARBONATE	121	mg CaCO3/L	10/17/96
	CHLORIDE	11.3	mg/L	10/07/96
	COD	41.1	mg/L	10/04/96
	CYANIDE	<0.010	mg/L	10/07/96
	NITRATE	0.76	mg N/L	10/03/96
	SULFATE	<2.0	mg/L	10/17/96
	TDS	155	mg/L	10/02/96
	TOC	1.1	mg/L	10/01/96

FORM I  
SAMPLE ANALYSIS RESULTS

Lab Name: EA Laboratories  
SAS Case No.: 7011001  
EPA Sample No.: MW-3  
Sample matrix: WATER  
Total Solids: %

Contract: USA WASTE  
SDG No.: 9614486  
Lab Sample ID No.: 9614488  
Date Received: 09/26/96

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Lab ID	Parameter	Sample Conc.	Concentration Units	Analyzed Date
9614488	AMMONIA	0.27	mg N/L	10/08/96
	BICARBONATE	195	mg CaCO3/L	10/17/96
	CHLORIDE	2.8	mg/L	10/07/96
	COD	10.8	mg/L	10/04/96
	CYANIDE	<0.010	mg/L	10/07/96
	NITRATE	<0.050	mg N/L	10/03/96
	SULFATE	<2.0	mg/L	10/17/96
	TDS	206	mg/L	10/02/96
	TOC	4.0	mg/L	10/01/96



FORM I  
SAMPLE ANALYSIS RESULTS

Lab Name: EA Laboratories  
 CAS Case No.: 7011001  
 EPA Sample No.: MW-4  
 Sample matrix: WATER  
 Total Solids: %

Contract: USA WASTE  
 SDG No.: 9614486  
 Lab Sample ID No.: 9614489  
 Date Received: 09/26/96

Lab ID	Parameter	Sample Conc.	Concentration Units	Analyzed Date
614489	AMMONIA	0.18	mg N/L	10/08/96
	BICARBONATE	605	mg CaCO3/L	10/17/96
	CHLORIDE	10.0	mg/L	10/07/96
	COD	35.0	mg/L	10/04/96
	CYANIDE	<0.010	mg/L	10/07/96
	NITRATE	<0.050	mg N/L	10/03/96
	SULFATE	<2.0	mg/L	10/17/96
	TDS	<del>634</del>	mg/L	10/02/96
	TOC	149	mg/L	10/01/96

FORM I  
SAMPLE ANALYSIS RESULTS

Lab Name: EA Laboratories  
SAS Case No.: 7011001  
EPA Sample No.: MW-5  
Sample matrix: WATER  
Total Solids: %

Contract: USA WASTE  
SDG No.: 9614486  
Lab Sample ID No.: 9614490  
Date Received: 09/26/96

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Lab ID	Parameter	Sample Conc.	Concentration Units	Analyzed Date
9614490	AMMONIA	<0.10	mg N/L	10/08/96
	BICARBONATE	359	mg CaCO3/L	10/17/96
	CHLORIDE	40.2	mg/L	10/07/96
	COD	12.2	mg/L	10/04/96
	CYANIDE	<0.010	mg/L	10/07/96
	NITRATE	1.7	mg N/L	10/03/96
	SULFATE	<2.0	mg/L	10/17/96
	TDS	455	mg/L	10/02/96
	TOC	1.2	mg/L	10/01/96

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FORM I  
SAMPLE ANALYSIS RESULTS

Lab Name: EA Laboratories  
 CAS Case No.: 7011001  
 EPA Sample No.: MW-6  
 Sample matrix: WATER  
 Total Solids: %

Contract: USA WASTE  
 SDG No.: 9614486  
 Lab Sample ID No.: 9614491  
 Date Received: 09/26/96

Lab ID	Parameter	Sample Conc.	Concentration Units	Analyzed Date
614491	AMMONIA	<0.10	mg N/L	10/08/96
	BICARBONATE	268	mg CaCO3/L	10/17/96
	CHLORIDE	21.6	mg/L	10/07/96
	COD	<10.0	mg/L	10/04/96
	CYANIDE	<0.010	mg/L	10/07/96
	NITRATE	2.6	mg N/L	10/03/96
	SULFATE	<2.0	mg/L	10/17/96
	TDS	334	mg/L	10/02/96
	TOC	1.8	mg/L	10/01/96

FORM I  
SAMPLE ANALYSIS RESULTS

Lab Name: EA Laboratories  
SAS Case No.: 7011001  
EPA Sample No.: MW-7  
Sample matrix: WATER  
Total Solids: %

Contract: USA WASTE  
SDG No.: 9614486  
Lab Sample ID No.: 9614492  
Date Received: 09/26/96

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Lab ID	Parameter	Sample Conc.	Concentration Units	Analyzed Date
9614492	AMMONIA	0.19	mg N/L	10/08/96
	BICARBONATE	372	mg CaCO3/L	10/17/96
	CHLORIDE	9.9	mg/L	10/07/96
	COD	15.9	mg/L	10/04/96
	CYANIDE	<0.010	mg/L	10/07/96
	NITRATE	0.66	mg N/L	10/03/96
	SULFATE	<2.0	mg/L	10/17/96
	TDS	403	mg/L	10/02/96
	TOC	3.8	mg/L	10/01/96

FORM I  
SAMPLE ANALYSIS RESULTS

Lab Name: EA Laboratories  
 CAS Case No.: 7011001  
 EPA Sample No.: MW-8  
 Sample matrix: WATER  
 Total Solids: %

Contract: USA WASTE  
 SDG No.: 9614486  
 Lab Sample ID No.: 9614493  
 Date Received: 09/26/96

Lab ID	Parameter	Sample Conc.	Concentration Units	Analyzed Date
614493	AMMONIA	<0.10	mg N/L	10/08/96
	BICARBONATE	241	mg CaCO3/L	10/17/96
	CHLORIDE	4.1	mg/L	10/07/96
	COD	<10.0	mg/L	10/04/96
	CYANIDE	<0.010	mg/L	10/07/96
	NITRATE	0.50	mg N/L	10/03/96
	SULFATE	<2.0	mg/L	10/17/96
	TDS	242	mg/L	10/02/96
	TOC	1.5	mg/L	10/01/96

FORM I  
SAMPLE ANALYSIS RESULTS

Lab Name: EA Laboratories  
SAS Case No.: 7011001  
EPA Sample No.: MW-10  
Sample matrix: WATER  
Total Solids: %

Contract: USA WASTE  
SDG No.: 9614486  
Lab Sample ID No.: 9614494  
Date Received: 09/26/96

Lab ID	Parameter	Sample Conc.	Concentration Units	Analyzed Date
9614494	AMMONIA	0.19	mg N/L	10/08/96
	BICARBONATE	153	mg CaCO3/L	10/17/96
	CHLORIDE	2.6	mg/L	10/07/96
	COD	18.7	mg/L	10/04/96
	CYANIDE	<0.010	mg/L	10/07/96
	NITRATE	<0.050	mg N/L	10/03/96
	SULFATE	5.9	mg/L	10/17/96
	TDS	157	mg/L	10/02/96
	TOC	<1.0	mg/L	10/01/96

FORM I  
SAMPLE ANALYSIS RESULTS

Lab Name: EA Laboratories  
AS Case No.: 7011001  
PA Sample No.: MW-11  
Sample matrix: WATER  
Total Solids: %

Contract: USA WASTE  
SDG No.: 9614486  
Lab Sample ID No.: 9614495  
Date Received: 09/26/96

Lab ID	Parameter	Sample Conc.	Concentration Units	Analyzed Date
614495	AMMONIA	<0.10	mg N/L	10/08/96
	BICARBONATE	187	mg CaCO3/L	10/17/96
	CHLORIDE	10.2	mg/L	10/07/96
	COD	16.9	mg/L	10/04/96
	CYANIDE	<0.010	mg/L	10/07/96
	NITRATE	3.9	mg N/L	10/03/96
	SULFATE	<2.0	mg/L	10/17/96
	TDS	239	mg/L	10/02/96
	TOC	1.5	mg/L	10/01/96

FORM I  
SAMPLE ANALYSIS RESULTS

Lab Name: EA Laboratories  
 SAS Case No.: 7011001  
 EPA Sample No.: MW-12  
 Sample matrix: WATER  
 Total Solids: %

Contract: USA WASTE  
 SDG No.: 9614486  
 Lab Sample ID No.: 9614496  
 Date Received: 09/26/96

Lab ID	Parameter	Sample Conc.	Concentration Units	Analyzed Date
9614496	AMMONIA	0.12	mg N/L	10/08/96
	BICARBONATE	231	mg CaCO3/L	10/17/96
	CHLORIDE	4.2	mg/L	10/07/96
	COD	15.5	mg/L	10/04/96
	CYANIDE	<0.010	mg/L	10/07/96
	NITRATE	0.51	mg N/L	10/03/96
	SULFATE	<2.0	mg/L	10/17/96
	TDS	244	mg/L	10/02/96
	TOC	1.4	mg/L	10/01/96



FORM I  
SAMPLE ANALYSIS RESULTS

Lab Name: EA Laboratories  
AS Case No.: 7011001  
PA Sample No.: EQUIP BLANK  
Sample matrix: WATER  
Total Solids: %

Contract: USA WASTE  
SDG No.: 9614486  
Lab Sample ID No.: 9614497  
Date Received: 09/26/96

Lab ID	Parameter	Sample Conc.	Concentration Units	Analyzed Date
614497	AMMONIA	<0.10	mg N/L	10/08/96
	BICARBONATE	2.4	mg CaCO3/L	10/17/96
	CHLORIDE	<1.0	mg/L	10/07/96
	COD	<10.0	mg/L	10/04/96
	CYANIDE	<0.010	mg/L	10/07/96
	NITRATE	<0.050	mg N/L	10/03/96
	SULFATE	<2.0	mg/L	10/17/96
	TDS	<10.0	mg/L	10/02/96
	TOC	<1.0	mg/L	10/01/96

## B. Quality Control Data

FORM II  
LABORATORY CONTROL SAMPLE (LCS) RECOVERY

Lab Name: EA Laboratories  
SAS Case No.: 7011001

Contract: USA WASTE  
SDG No.: 9614486

Parameter	Target Conc.	Measured Conc.	Units	Recovery %	Analysis Date
ALKALINITY	119	121	mg CaCO <sub>3</sub> /L	101.7	10/09/96
AMMONIA	0.500	0.475	mg N/L	95.0	10/08/96
CHLORIDE	10.0	9.83	mg/L	98.3	10/07/96
COD	250	244	mg/L	97.6	10/04/96
CYANIDE	0.0960	0.0968	mg/L	100.8	10/07/96
NITRATE+NITRITE	0.500	0.452	mg N/L	90.4	10/03/96
NITRITE	0.500	0.522	mg N/L	104.4	09/27/96
pH	9.08	9.08	pH units	100.0	09/27/96
SULFATE	25.0	25.5	mg/L	102.0	10/17/96
TDS	959	926	mg/L	96.6	10/02/96
TOC	20.0	19.9	mg/L	99.5	10/01/96

FORM III  
METHOD BLANK AND DETECTION LIMIT

Lab Name: EA Laboratories  
SAS Case No.: 7011001

Contract: USA WASTE  
SDG No.: 9614486

Parameter	Method Bk. Conc.	Detection Limit	Units	Analysis Date
ALKALINITY	<1.0	1.0	mg CaCO <sub>3</sub> /L	10/09/96
AMMONIA	<0.10	0.10	mg N/L	10/08/96
CHLORIDE	<1.0	1.0	mg/L	10/07/96
COD	<10.0	10.0	mg/L	10/04/96
CYANIDE	<0.010	0.010	mg/L	10/07/96
NITRATE+NITRITE	<0.050	0.050	mg N/L	10/03/96
NITRITE	<0.050	0.050	mg N/L	09/27/96
SULFATE	<2.0	2.0	mg/L	10/17/96
TDS	<10.0	10.0	mg/L	10/02/96
TOC	<1.0	1.0	mg/L	10/01/96

Solid Matrix detection limits will vary slightly for each sample depending on sample weight processed and total solids.