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ANALYTICAL DATA PACKAGE  
Metals Analysis

Versar Code OBRITOWN - 2  
Control No(s) 2954  
Client Obrien and Gere  
Site Town of Conklin LF  
Date Reported 7-25-90

**Versar** INC.  
ENVIRONMENTAL RISK MANAGEMENT

CC0708



ANALYTICAL DATA PACKAGE  
Metals Analysis

Versar Code OBRITOWN - 2  
Control No(s) 2954  
Client Obrien and Gere  
Site Town of Conklin LF  
Date Reported 7-25-90

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TRACE METALS SECTION  
ANALYSIS NARRATIVE

Versar Code: OBRITOWN - 2  
Client: Obrien and Gere  
Control Number: 2954

Date: July 24, 1990  
Site: Town of Conklin LF

This report contains metals analytical results for eleven water samples which were received at Versar, Inc. on June 22, 1990. The samples were analyzed for the following elements:

Antimony	Arsenic	Beryllium	Cadmium
Chromium	Copper	Lead	Mercury
Nickel	Selenium	Silver	Thallium
Zinc			

Analytical Methods

The samples were prepared and analyzed by the New York State Department of Environmental Conservation Laboratory protocol. The following is a summary of the methods:

Water Preparation	Method:
	ICP - 207.0, 9.3
	GFAA - 200.0, 4.1.3
ICP Analysis	Method:
	200.7
GFAA Analysis	Method:
Arsenic	206.2
Lead	239.2
Selenium	270.2
Thallium	279.2
Mercury - Water Preparation/Analysis	Method: 245.1

Analytical Results

The report is divided into several sections. A description of each part and any comments concerning them is provided below:

- Cover Page - Cross reference list of the laboratory sample number and the field sample number.
- Form I - Summary of results for each sample.

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OBRITOWN - 2  
Analysis: NYSDEC  
Page two

Analytical Results (continued)

- Form IIA - Initial and continuing calibration verification results. All ICP and graphite furnace atomic absorption (GFAA) recoveries were within the 10 % control limits. All cold vapor atomic absorption (CVAA) recoveries were within the 20 % control limits.
- Form III - Initial and continuing calibration blanks and preparation blank results. All blanks were less than the contract required detection limit (CRDL) except for:
- Initial or Continuing Blank - Sb, Be, Cu, Cr, Ni, Se, Zn
  - Preparation Blank - Cu, Ni, Zn
- Form IV - ICP interference check sample. All recoveries were within the 20 % control limits.
- Form VA - Spike sample recovery results. All spike recoveries were within the 25 % control limits for all applicable elements except for:
- 1 - Tl
- Form VI - Duplicate results. All relative percent differences (RPD) between the sample and the duplicate were within their specified control limits except for:
- 1 - Be, Cr, Cu, Ni, Zn
- Form IX - ICP serial dilution results. All serial dilutions agreed with the original sample results within the 10 % control limits for all applicable elements except for:
- 1 - Be, Cu
- Form X - Holding Times. All analyses for metals were performed within their specified holding times.
- Raw Data - Copies of all raw data associated with this report.

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General Discussion

The levels of all elements found in the blanks were high enough that they may be considered significant when compared to the samples. Therefore, the sample results for all elements detected in the blanks may be biased high.

The low spike recovery for thallium was probably due to matrix interference. The high RPD's for chromium and nickel can be contributed to the greater amount of variance at or near the detection limit.

If there are any questions concerning this report, please contact Janet Beckman at (703) 750-3000.

Prepared by: Jim L. Lee

Reviewed by: Penelope Clayton

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SAMPLE IDENTIFICATION AND  
ANALYTICAL REQUIREMENTS SUMMARY

Customer Sample Code	Laboratory Sample Code	*VOA GC/MS	*BNA GC/MS	*PEST PCB	*METALS	*OTHER
1	24465				X	
10	24474				X	
11	24475				X	
2	24466				X	
3	24467				X	
4	24468				X	
5	24469				X	
6	24470				X	
7	24471				X	
8	24472				X	
9	24473				X	
TRIP BLANK	24476					

*Not done for metals*

Comments: Analysis by NYSDEC 89-ASP, 40 CFR.

INORGANIC ANALYSES

Laboratory Sample ID	Matrix	Analytical Protocol	Digestion Procedure	Matrix Modifier	Dil/Conc Factor
- 24465	HOH	NYSDEC 9/89			
24466	HOH				
24467	HOH				
24468	HOH				
24469	HOH				
24470	HOH				
24471	HOH				
24472	HOH				
24473	HOH				
24474	HOH				
24475	HOH				

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SAMPLE PREPARATION AND ANALYSIS SUMMARY

INORGANIC ANALYSES

Laboratory Sample ID	Matrix	Metals Requested	Date Rec'd At Lab	Date Analyzed
24465	HOH	ICP	22-JUN-90	7-10-90
24466	HOH	Be, Ag, Cd, Cr, Cu	22-JUN-90	↓
24467	HOH	Ni, Sb, Zn	22-JUN-90	
24468	HOH		22-JUN-90	
24469	HOH		22-JUN-90	
24470	HOH		22-JUN-90	
24471	HOH		22-JUN-90	
24472	HOH		22-JUN-90	
24473	HOH		22-JUN-90	
24474	HOH		22-JUN-90	
24475	HOH		22-JUN-90	

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SAMPLE PREPARATION AND ANALYSIS SUMMARY

INORGANIC ANALYSES

Laboratory Sample ID	Matrix	Metals Requested	Date Rec'd At Lab	Date Analyzed
24465	HOH	GFAA	22-JUN-90	7-14-90
24466	HOH	As, Pb, Se, Te	22-JUN-90	
24467	HOH			
24468	HOH			
24469	HOH			
24470	HOH			
24471	HOH			
24472	HOH			
24473	HOH			
24474	HOH			
24475	HOH			

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SAMPLE PREPARATION AND ANALYSIS SUMMARY

INORGANIC ANALYSES

Laboratory Sample ID	Matrix	Metals Requested	Date Rec'd At Lab	Date Analyzed
24465	HOH	Hg	22-JUN-90	6-28-90
24466	HOH		22-JUN-90	
24467	HOH		22-JUN-90	
24468	HOH		22-JUN-90	
24469	HOH		22-JUN-90	
24470	HOH		22-JUN-90	
24471	HOH		22-JUN-90	7-3-90
24472	HOH		22-JUN-90	6-28-90
24473	HOH		22-JUN-90	
24474	HOH		22-JUN-90	
24475	HOH		22-JUN-90	

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COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Client : OBRIEN\_AND\_GERE\_\_\_\_\_

Site: TOWN\_OF\_CONKLIN\_\_\_\_\_

Lab Name: VERSAR\_INC. Control No.: 2954\_\_\_\_\_

Code: OBRITOWN Batch: 2\_\_\_\_\_

SOW No. : NYSDEC\_89\_\_\_\_\_

Field Sample No.

Lab Sample ID.

1  
1\_D  
1\_S  
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24465  
24465D  
24465S  
24474  
24475  
24466  
24467  
24468  
24469  
24470  
24471  
24472  
24473  
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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:

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\_\_\_\_\_  
\_\_\_\_\_

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Lab Manager: Pembroke Clayton

Date: 7-25-90

1  
INORGANIC ANALYSES DATA SHEET

FIELD SAMPLE NO.

1
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Client : OBRIEN\_AND\_GERE\_\_\_\_\_

Site: TOWN\_OF\_CONKLIN\_\_\_\_\_

Lab Name: VERSAR\_INC. Control No.: 2954\_\_\_\_\_ Code: OBRITOWN Batch: 2\_\_\_\_\_

Matrix : WATER\_\_\_\_\_

Lab Sample ID: 24465\_\_\_\_\_

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

Date Received: 06/22/90\_\_\_\_\_

% 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				NR
7440-36-0	Antimony	14.0	U		P
7440-38-2	Arsenic	16.7			F
7440-39-3	Barium				NR
7440-41-7	Beryllium	10.1			P
7440-43-9	Cadmium	12.1			P
7440-70-2	Calcium				NR
7440-47-3	Chromium	15.9			P
7440-48-4	Cobalt				NR
7440-50-8	Copper	27.9			P
7439-89-6	Iron				NR
7439-92-1	Lead	13.1			F
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	26.7			P
7440-09-7	Potassium				NR
7782-49-2	Selenium	3.0	U		F
7440-22-4	Silver	4.5			P
7440-23-5	Sodium				NR
7440-28-0	Thallium	2.0	U		F
7440-62-2	Vanadium				NR
7440-66-6	Zinc	114			P
	Cyanide				NR

Color Before: BROWN\_\_\_\_\_

Clarity Before: CLOUDY\_\_\_\_\_

Texture: \_\_\_\_\_

Color After : YELLOW\_\_\_\_\_

Clarity After: CLEAR\_\_\_\_\_

Artifacts: \_\_\_\_\_

Comments:

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1  
INORGANIC ANALYSES DATA SHEET

FIELD SAMPLE NO.

10
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Client : OBRIEN\_AND\_GERE \_\_\_\_\_ Site: TOWN\_OF\_CONKLIN \_\_\_\_\_

Lab Name: VERSAR\_INC. Control No.: 2954 \_\_\_\_\_ Code: OBRITOWN Batch: 2 \_\_\_\_\_

Matrix : WATER \_\_\_\_\_ Lab Sample ID: 24474 \_\_\_\_\_

Level (low/med): \_\_\_\_\_ Date Received: 06/22/90 \_\_\_\_\_

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
17429-90-5	Aluminum				NR
17440-36-0	Antimony	14.0	U		P
17440-38-2	Arsenic	4.5			F
17440-39-3	Barium				NR
17440-41-7	Beryllium	1.0	U		P
17440-43-9	Cadmium	3.0	U		P
17440-70-2	Calcium				NR
17440-47-3	Chromium	3.0	U		P
17440-48-4	Cobalt				NR
17440-50-8	Copper	4.0	U		P
17439-89-6	Iron				NR
17439-92-1	Lead	2.0	U		F
17439-95-4	Magnesium				NR
17439-96-5	Manganese				NR
17439-97-6	Mercury	0.20	U		CV
17440-02-0	Nickel	17.7			P
17440-09-7	Potassium				NR
17782-49-2	Selenium	3.0	U		F
17440-22-4	Silver	4.0	U		P
17440-23-5	Sodium				NR
17440-28-0	Thallium	2.0	U		F
17440-62-2	Vanadium				NR
17440-66-6	Zinc	17.2			P
	Cyanide				NR

Color Before: COLORLESS      Clarity Before: CLEAR      Texture: \_\_\_\_\_

Color After : COLORLESS      Clarity After: CLEAR      Artifacts: \_\_\_\_\_

Comments:

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1  
INORGANIC ANALYSES DATA SHEET

FIELD SAMPLE NO.

11

Client : OBRIEN\_AND\_GERE Site: TOWN\_OF\_CONKLIN

Lab Name: VERSAR\_INC. Control No.: 2954 Code: OBRITOWN Batch: 2

Matrix : WATER Lab Sample ID: 24475

Level (low/med): Date Received: 06/22/90

% Solids: 0.0

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

CAS No.	Analyte	Concentration	Q	M
17429-90-5	Aluminum			NR
17440-36-0	Antimony	14.0	UI	IP
17440-38-2	Arsenic	3.0	UI	IF
17440-39-3	Barium			NR
17440-41-7	Beryllium	1.0	UI	IP
17440-43-9	Cadmium	3.0	UI	IP
17440-70-2	Calcium			NR
17440-47-3	Chromium	3.0		IP
17440-48-4	Cobalt			NR
17440-50-8	Copper	25.2		IP
17439-89-6	Iron			NR
17439-92-1	Lead	4.2		IF
17439-95-4	Magnesium			NR
17439-96-5	Manganese			NR
17439-97-6	Mercury	0.20	UI	CV
17440-02-0	Nickel	10.9		IP
17440-09-7	Potassium			NR
17782-49-2	Selenium	3.0	UI	IF
17440-22-4	Silver	4.0	UI	IP
17440-23-5	Sodium			NR
17440-28-0	Thallium	2.0	UI	IF
17440-62-2	Vanadium			NR
17440-66-6	Zinc	45.0		IP
	Cyanide			NR

Color Before: BROWN Clarity Before: CLOUDY Texture: \_\_\_\_\_

Color After : COLORLESS Clarity After: CLEAR Artifacts: \_\_\_\_\_

Comments:

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INORGANIC ANALYSES DATA SHEET

FIELD SAMPLE NO.

2
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Client : O BRIEN\_AND\_GERE \_\_\_\_\_ Site: TOWN\_OF\_CONKLIN \_\_\_\_\_

Lab Name: VERSAR\_INC. Control No.: 2954 \_\_\_\_\_ Code: OBRITOWN Batch: 2 \_\_\_\_\_

Matrix : WATER \_\_\_\_\_ Lab Sample ID: 24466 \_\_\_\_\_

Level (low/med): \_\_\_\_\_ Date Received: 06/22/90 \_\_\_\_\_

% Solids: \_\_\_0.0

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

CAS No.	Analyte	Concentration	Q	M
17429-90-5	Aluminum			NR
17440-36-0	Antimony	14.0	U	P
17440-38-2	Arsenic	3.0	U	F
17440-39-3	Barium			NR
17440-41-7	Beryllium	3.9		P
17440-43-9	Cadmium	3.0	U	P
17440-70-2	Calcium			NR
17440-47-3	Chromium	7.5		P
17440-48-4	Cobalt			NR
17440-50-8	Copper	10.7		P
17439-89-6	Iron			NR
17439-92-1	Lead	2.0		F
17439-95-4	Magnesium			NR
17439-96-5	Manganese			NR
17439-97-6	Mercury	0.20	U	CV
17440-02-0	Nickel	11.3		P
17440-09-7	Potassium			NR
17782-49-2	Selenium	3.0	U	F
17440-22-4	Silver	4.2		P
17440-23-5	Sodium			NR
17440-28-0	Thallium	2.0	U	F
17440-62-2	Vanadium			NR
17440-66-6	Zinc	18.4		P
	Cyanide			NR

Color Before: COLORLESS      Clarity Before: CLEAR      Texture: \_\_\_\_\_

Color After : COLORLESS      Clarity After: CLEAR      Artifacts: \_\_\_\_\_

Comments:

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1  
INORGANIC ANALYSES DATA SHEET

FIELD SAMPLE NO.

3
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Client : OBRIEN\_AND\_GERE\_\_\_\_\_ Site: TOWN\_OF\_CONKLIN

Lab Name: VERSAR\_INC. Control No.: 2954\_\_\_\_\_ Code: OBRITOWN Batch: 2\_\_\_\_\_

Matrix : WATER\_\_\_\_\_ Lab Sample ID: 24467\_\_\_\_\_

Level (low/med): \_\_\_\_\_ Date Received: 06/22/90\_\_\_\_\_

% Solids: \_\_\_0.0

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

CAS No.	Analyte	Concentration	C	Q	M
17429-90-5	Aluminum				NR
17440-36-0	Antimony	14.0	U		P
17440-38-2	Arsenic	3.0	U		F
17440-39-3	Barium				NR
17440-41-7	Beryllium	2.4			P
17440-43-9	Cadmium	3.0	U		P
17440-70-2	Calcium				NR
17440-47-3	Chromium	6.0			P
17440-48-4	Cobalt				NR
17440-50-8	Copper	7.0			P
17439-89-6	Iron				NR
17439-92-1	Lead	2.8			F
17439-95-4	Magnesium				NR
17439-96-5	Manganese				NR
17439-97-6	Mercury	0.20	U		CV
17440-02-0	Nickel	14.7			P
17440-09-7	Potassium				NR
17782-49-2	Selenium	5.9			F
17440-22-4	Silver	4.0	U		P
17440-23-5	Sodium				NR
17440-28-0	Thallium	2.5			F
17440-62-2	Vanadium				NR
17440-66-6	Zinc	9.4			P
	Cyanide				NR

Color Before: COLORLESS      Clarity Before: CLEAR\_      Texture: \_\_\_\_\_

Color After : COLORLESS      Clarity After: CLEAR\_      Artifacts: \_\_\_\_\_

Comments:

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INORGANIC ANALYSES DATA SHEET

FIELD SAMPLE NO.

4
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Client : OBRIEN\_AND\_GERE \_\_\_\_\_ Site: TOWN\_OF\_CONKLIN \_\_\_\_\_

Lab Name: VERSAR\_INC. Control No.: 2954 \_\_\_\_\_ Code: OBRITOWN Batch: 2 \_\_\_\_\_

Matrix : WATER \_\_\_\_\_ Lab Sample ID: 24468 \_\_\_\_\_

Level (low/med): \_\_\_\_\_ Date Received: 06/22/90 \_\_\_\_\_

% Solids: 0.0

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

CAS No.	Analyte	Concentration	Q	M	IM
17429-90-5	Aluminum				NR
17440-36-0	Antimony	14.0	U		IP
17440-38-2	Arsenic	3.0	U		IF
17440-39-3	Barium				NR
17440-41-7	Beryllium	1.2			IP
17440-43-9	Cadmium	3.0	U		IP
17440-70-2	Calcium				NR
17440-47-3	Chromium	3.0	U		IP
17440-48-4	Cobalt				NR
17440-50-8	Copper	4.6			IP
17439-89-6	Iron				NR
17439-92-1	Lead	2.0	U		IF
17439-95-4	Magnesium				NR
17439-96-5	Manganese				NR
17439-97-6	Mercury	0.20	U		ICV
17440-02-0	Nickel	5.9			IP
17440-09-7	Potassium				NR
17782-49-2	Selenium	3.6			IF
17440-22-4	Silver	4.0	U		IP
17440-23-5	Sodium				NR
17440-28-0	Thallium	2.0	U		IF
17440-62-2	Vanadium				NR
17440-66-6	Zinc	12.9			IP
	Cyanide				NR

Color Before: COLORLESS      Clarity Before: CLEAR      Texture: \_\_\_\_\_

Color After : COLORLESS      Clarity After: CLEAR      Artifacts: \_\_\_\_\_

Comments:  
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INORGANIC ANALYSES DATA SHEET

FIELD SAMPLE NO.

5
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Client : OBRIEN\_AND\_GERE\_\_\_\_\_

Site: TOWN\_OF\_CONKLIN\_\_\_\_\_

Lab Name: VERSAR\_INC. Control No.: 2954\_\_\_\_\_ Code: OBRITOWN Batch: 2\_\_\_\_\_

Matrix : WATER\_\_\_\_\_

Lab Sample ID: 24469\_\_\_\_\_

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

Date Received: 06/22/90\_\_\_\_\_

% 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				NR
7440-36-0	Antimony	14.0	U		IP
7440-38-2	Arsenic	3.0	U		IF
7440-39-3	Barium				NR
7440-41-7	Beryllium	1.0	U		IP
7440-43-9	Cadmium	3.0	U		IP
7440-70-2	Calcium				NR
7440-47-3	Chromium	3.0	U		IP
7440-48-4	Cobalt				NR
7440-50-8	Copper	4.0	U		IP
7439-89-6	Iron				NR
7439-92-1	Lead	2.0	U		IF
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	5.0	U		IP
7440-09-7	Potassium				NR
7782-49-2	Selenium	3.0	U		IF
7440-22-4	Silver	4.0	U		IP
7440-23-5	Sodium				NR
7440-28-0	Thallium	2.0	U		IF
7440-62-2	Vanadium				NR
7440-66-6	Zinc	2.4			IP
	Cyanide				NR

Color Before: COLORLESS

Clarity Before: CLEAR\_

Texture: \_\_\_\_\_

Color After : COLORLESS

Clarity After: CLEAR\_

Artifacts: \_\_\_\_\_

Comments:

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1  
INORGANIC ANALYSES DATA SHEET

FIELD SAMPLE NO.

6
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Client : O BRIEN\_AND\_GERE \_\_\_\_\_ Site: TOWN\_OF\_CONKLIN \_\_\_\_\_

Lab Name: VERSAR\_INC. Control No.: 2954 \_\_\_\_\_ Code: OBRITOWN Batch: 2 \_\_\_\_\_

Matrix : WATER \_\_\_\_\_ Lab Sample ID: 24470 \_\_\_\_\_

Level (low/med): \_\_\_\_\_ Date Received: 06/22/90 \_\_\_\_\_

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
17429-90-5	Aluminum				NR
17440-36-0	Antimony	14.0	U		IF
17440-38-2	Arsenic	3.0	U		IF
17440-39-3	Barium				NR
17440-41-7	Beryllium	1.0	U		IF
17440-43-9	Cadmium	3.0	U		IF
17440-70-2	Calcium				NR
17440-47-3	Chromium	3.0	U		IF
17440-48-4	Cobalt				NR
17440-50-8	Copper	4.0	U		IF
17439-89-6	Iron				NR
17439-92-1	Lead	2.3			IF
17439-95-4	Magnesium				NR
17439-96-5	Manganese				NR
17439-97-6	Mercury	0.20	U		CV
17440-02-0	Nickel	9.4			IF
17440-09-7	Potassium				NR
17782-49-2	Selenium	3.9			IF
17440-22-4	Silver	4.0	U		IF
17440-23-5	Sodium				NR
17440-28-0	Thallium	2.0	U		IF
17440-62-2	Vanadium				NR
17440-66-6	Zinc	15.7			IF
	Cyanide				NR

Color Before: COLORLESS      Clarity Before: CLEAR      Texture: \_\_\_\_\_

Color After : COLORLESS      Clarity After: CLEAR      Artifacts: \_\_\_\_\_

Comments:

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1  
INORGANIC ANALYSES DATA SHEET

FIELD SAMPLE NO.

7
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Client : OBRIEN\_AND\_GERE \_\_\_\_\_ Site: TOWN\_OF\_CONKLIN \_\_\_\_\_

Lab Name: VERSAR\_INC. Control No.: 2954 \_\_\_\_\_ Code: OBRITOWN Batch: 2 \_\_\_\_\_

Matrix : WATER \_\_\_\_\_ Lab Sample ID: 24471 \_\_\_\_\_

Level (low/med): \_\_\_\_\_ Date Received: 06/22/90 \_\_\_\_\_

% Solids: 0.0

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

CAS No.	Analyte	Concentration	Cl	Q	M
17429-90-5	Aluminum				NR
17440-36-0	Antimony	14.0	U		P
17440-38-2	Arsenic	8.5			F
17440-39-3	Barium				NR
17440-41-7	Beryllium	1.0	U		P
17440-43-9	Cadmium	3.0	U		P
17440-70-2	Calcium				NR
17440-47-3	Chromium	3.1			P
17440-48-4	Cobalt				NR
17440-50-8	Copper	4.0	U		P
17439-89-6	Iron				NR
17439-92-1	Lead	2.0	U		F
17439-95-4	Magnesium				NR
17439-96-5	Manganese				NR
17439-97-6	Mercury	0.20	U		CV
17440-02-0	Nickel	11.4			P
17440-09-7	Potassium				NR
17782-49-2	Selenium	3.0	U		F
17440-22-4	Silver	4.0	U		P
17440-23-5	Sodium				NR
17440-28-0	Thallium	10.0	U		F
17440-62-2	Vanadium				NR
17440-66-6	Zinc	9.0			P
	Cyanide				NR

Color Before: COLORLESS      Clarity Before: CLEAR\_      Texture: \_\_\_\_\_

Color After : COLORLESS      Clarity After: CLEAR\_      Artifacts: \_\_\_\_\_

Comments:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

1  
INORGANIC ANALYSES DATA SHEET

FIELD SAMPLE NO.

8

Client : OBRIEN\_AND\_GERE\_\_\_\_\_

Site: TOWN\_OF\_CONKLIN\_\_\_\_\_

Lab Name: VERSAR\_INC. Control No.: 2954\_\_\_\_\_ Code: OBRITOWN Batch: 2\_\_\_\_\_

Matrix : WATER\_\_\_\_\_

Lab Sample ID: 24472\_\_\_\_\_

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

Date Received: 06/22/90\_\_\_\_\_

% Solids: \_\_\_0.0

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

CAS No.	Analyte	Concentration	CI	Q	IM
17429-90-5	Aluminum				NR
17440-36-0	Antimony	14.0	U		P
17440-38-2	Arsenic	11.1			F
17440-39-3	Barium				NR
17440-41-7	Beryllium	1.0	U		P
17440-43-9	Cadmium	3.0			P
17440-70-2	Calcium				NR
17440-47-3	Chromium	37.6			P
17440-48-4	Cobalt				NR
17440-50-8	Copper	58.1			P
17439-89-6	Iron				NR
17439-92-1	Lead	32.7			F
17439-95-4	Magnesium				NR
17439-96-5	Manganese				NR
17439-97-6	Mercury	0.20	U		CV
17440-02-0	Nickel	42.4			P
17440-09-7	Potassium				NR
17782-49-2	Selenium	3.0	U		F
17440-22-4	Silver	4.0	U		P
17440-23-5	Sodium				NR
17440-28-0	Thallium	2.0	U		F
17440-62-2	Vanadium				NR
17440-66-6	Zinc	173			P
	Cyanide				NR

Color Before: GREY\_\_\_\_\_

Clarity Before: CLOUDY

Texture: \_\_\_\_\_

Color After : YELLOW\_\_\_\_\_

Clarity After: CLEAR\_

Artifacts: \_\_\_\_\_

Comments:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

1  
INORGANIC ANALYSES DATA SHEET

FIELD SAMPLE NO.

9
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Client : OBRIEN\_AND\_GERE \_\_\_\_\_ Site: TOWN\_OF\_CONKLIN \_\_\_\_\_

Lab Name: VERSAR\_INC. Control No.: 2954 \_\_\_\_\_ Code: OBRITOWN Batch: 2 \_\_\_\_\_

Matrix : WATER \_\_\_\_\_ Lab Sample ID: 24473 \_\_\_\_\_

Level (low/med): \_\_\_\_\_ Date Received: 06/22/90 \_\_\_\_\_

% Solids: 0.0

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

CAS No.	Analyte	Concentration	Cl	Q	M
17429-90-5	Aluminum				NR
17440-36-0	Antimony	14.0	U		P
17440-38-2	Arsenic	3.0	U		F
17440-39-3	Barium				NR
17440-41-7	Beryllium	3.0			P
17440-43-9	Cadmium	3.0	U		P
17440-70-2	Calcium				NR
17440-47-3	Chromium	6.4			P
17440-48-4	Cobalt				NR
17440-50-8	Copper	5.7			P
17439-89-6	Iron				NR
17439-92-1	Lead	2.0	U		F
17439-95-4	Magnesium				NR
17439-96-5	Manganese				NR
17439-97-6	Mercury	0.20	U		CV
17440-02-0	Nickel	15.5			P
17440-09-7	Potassium				NR
17782-49-2	Selenium	3.0	U		F
17440-22-4	Silver	4.0	U		P
17440-23-5	Sodium				NR
17440-28-0	Thallium	2.0	U		F
17440-62-2	Vanadium				NR
17440-66-6	Zinc	12.9			P
	Cyanide				NR

Color Before: COLORLESS      Clarity Before: CLEAR      Texture: \_\_\_\_\_

Color After : COLORLESS      Clarity After: CLEAR      Artifacts: \_\_\_\_\_

Comments:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client : OBRIEN\_AND\_GERE\_\_\_\_\_

Site: TOWN\_OF\_CONKLIN\_\_\_\_\_

Lab Name: VERSAR\_INC. Control No.: 2954\_\_\_\_\_

Code: OBRITOWN Batch: 2\_\_\_\_\_

Initial Calibration Source: NBS\_\_\_\_\_

Continuing Calibration Source: NBS\_\_\_\_\_

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum									NR
Antimony	500.0	510.03	102.0	500.0	508.65	101.7	492.00	98.4	IP
Arsenic									NR
Barium									NR
Beryllium	500.0	511.37	102.3	500.0	513.45	102.7	510.47	102.1	IP
Cadmium	500.0	524.76	105.0	500.0	514.14	102.8	522.82	104.6	IP
Calcium									NR
Chromium	500.0	526.14	105.2	500.0	531.52	106.3	528.36	105.7	IP
Cobalt									NR
Copper	500.0	522.60	104.5	500.0	529.62	105.9	522.57	104.5	IP
Iron									NR
Lead									NR
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel	500.0	521.70	104.3	500.0	532.04	106.4	515.81	103.2	IP
Potassium									INF
Selenium									NR
Silver	500.0	492.62	98.5	500.0	499.03	99.8	483.27	96.7	IP
Sodium									INF
Thallium									INF
Vanadium									INF
Zinc	500.0	518.65	103.7	500.0	521.78	104.4	520.64	104.1	IP
Cyanide									INF

(1) Control Limits: Mercury and Furnace AA Metals 80-120; ICP Metals 90-110;



2A  
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client : OBRIEN\_AND\_GERE\_\_\_\_\_ Site: TOWN\_OF\_CONKLIN\_\_\_\_\_

Lab Name: VERSAR\_INC. Control No.: 2954\_\_\_\_\_ Code: OBRITOWN Batch: 2\_\_\_\_\_

Initial Calibration Source: EPA-LV\_\_\_\_\_

Continuing Calibration Source: NBS\_\_\_\_\_

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum									NR
Antimony									NR
Arsenic	47.0	54.35	115.6	50.0	52.71	105.4	50.42	100.8	F
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead	97.5	94.96	97.4	25.0	25.99	104.0	24.65	98.6	F
Magnesium									NR
Manganese									NR
Mercury	5.0	4.80	96.0	5.0	4.97	99.4	5.03	100.6	CV
Nickel									NR
Potassium									NR
Selenium	104.0	102.49	98.5	25.0	25.07	100.3	25.62	102.5	F
Silver									NR
Sodium									NR
Thallium	97.0	101.50	104.6	25.0	24.81	99.2	26.79	107.2	F
Vanadium									NR
Zinc									NR
Cyanide									NR

(1) Control Limits: Mercury and Furnace AA Metals 80-120; ICP Metals 90-110;

2A  
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client : OBRIEN\_AND\_GERE\_\_\_\_\_ Site: TOWN\_OF\_CONKLIN\_\_\_\_\_

Lab Name: VERSAR\_INC. Control No.: 2954\_\_\_\_\_ Code: OBRITOWN Batch: 2\_\_\_\_\_

Initial Calibration Source: EPA-LV\_\_\_\_\_

Continuing Calibration Source: NBS\_\_\_\_\_

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum									NR
Antimony									NR
Arsenic				50.0	48.12	96.2			IF
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Cerium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead				25.0	23.30	93.2			IF
Magnesium									NR
Manganese									NR
Mercury	5.0	4.77	95.4	5.0	4.40	88.0			CV
Nickel									NR
Potassium									NR
Selenium				25.0	22.84	91.4			IF
Silver									NR
Sodium									NR
Thallium				25.0	25.94	103.8			IF
Vanadium									NR
Zinc									NR
Cyanide									NR

1) Control Limits: Mercury and Furnace AA Metals 80-120; ICP Metals 90-110;

2A  
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client : OBRIEN\_AND\_GERE\_\_\_\_\_ Site: TOWN\_OF\_CONKLIN\_\_\_\_\_

Lab Name: VERSAR\_INC. Control No.: 2954\_\_\_\_\_ Code: OBRITOWN Batch: 2\_\_\_\_\_

Initial Calibration Source: EPA-LV\_\_\_\_\_

Continuing Calibration Source: NBS\_\_\_\_\_

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum									NR
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead									NR
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium	104.0	100.40	96.5	25.0	25.29	101.2			IF
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide									NR

(1) Control Limits: Mercury and Furnace AA Metals 80-120; ICP Metals 90-110;

3  
BLANKS

Client: O'BRIEN\_AND\_GERE

Site: TOWN\_OF\_CONKLIN

Company: VERBAR\_INC. Control No.: 8954

Code: OBRITOWN Station: 8

Preparation Blank Matrix: WATER

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

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L)						Preparation Blank	C	M
			1	C	2	C	3	C			
Aluminum											NR
Arsimony	25.0		14.0	UI	20.9			14.0	UI	IP	
Arsenic	3.0	UI	3.0	UI	3.0	UI	3.0	UI	3.0	UI	IF
Barium											NR
Beryllium	1.0	UI	1.2		1.2			1.0	UI	IP	
Cadmium	3.0	UI	3.0	UI	3.0	UI		3.0	UI	IP	
Calcium											NR
Chromium	3.0		3.0	UI	3.0	UI		3.0	UI	IF	
Cobalt											NR
Copper	4.0	UI	4.2		5.6			5.6		IP	
Iron											NR
Lead	2.0	UI	2.0	UI	2.0	UI	2.0	UI	2.0	UI	IF
Mercurium											NR
Manganese											NR
Mercury	0.2	UI	0.2	UI	0.2	UI		0.2	UI	ICV	
Molybdenum	11.8		6.1		7.1			9.1		IP	
Potassium											NR
Selenium	3.0	UI	3.4		3.0	UI	3.0	UI	3.0	UI	IF
Silver	4.0	UI	4.0	UI	4.0	UI		4.0	UI	IP	
Sodium											NR
Thallium	2.0	UI	2.0	UI	2.0	UI	2.0	UI	2.0	UI	IF
Vanadium											NR
Zinc	2.0	UI	3.5		2.7			4.7		IP	
Cyanide											NR

3  
BLANKS

Client : OBRIEN\_AND\_GERE\_\_\_\_\_

Site: TOWN\_OF\_CONKLIN\_\_\_\_\_

Lab Name: VERSAR\_INC. Control No.: 2954\_\_\_\_\_

Code: OBRITOWN Batch: 2\_\_\_\_\_

Preparation Blank Matrix: WATER\_\_\_\_\_

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

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L)						Preparation Blank	C	M
			1	C	2	C	3	C			
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					0.2	U	CV
Nickel											NR
Potassium											NR
Selenium	3.0	U	3.0	U							F
Silver											NR
Sodium											NR
Thallium											NR
Vanadium											NR
Zinc											NR
Cyanide											NR

## ICP INTERFERENCE CHECK SAMPLE

Client : OBRIEN\_AND\_GERE\_\_\_\_\_

Site: TOWN\_OF\_CONKLIN\_\_\_\_\_

Lab Name: VERSAR\_INC. Control No.: 2954\_\_\_\_\_ Code: OBRITOWN Batch: 2\_\_\_\_\_

ICP ID Number: 4-JA\_1140\_\_\_\_\_

ICS Source: INOR.\_VE

Concentration Units: ug/L

Analyte	True		Initial Found			Final Found		
	Sol. A	Sol. AB	Sol. A	Sol. AB	%R	Sol. A	Sol. AB	%R
Aluminum								
Antimony								
Arsenic								
Barium								
Beryllium		500		432.4	86.5		437.1	87.4
Cadmium		1000		846.8	84.7		867.4	86.7
Calcium								
Chromium		500		486.6	97.3		496.8	99.4
Cobalt								
Copper		500		437.6	87.5		441.9	88.4
Iron								
Lead								
Magnesium								
Manganese								
Mercury								
Nickel		1000		843.5	84.4		854.1	85.4
Potassium								
Selenium								
Silver		1000		827.8	82.8		834.3	83.4
Sodium								
Thallium								
Vanadium								
Zinc		1000		920.5	92.0		940.1	94.0
Cyanide								

5A  
SPIKE SAMPLE RECOVERY

FIELD SAMPLE NO.

1 S

Client : OBRIEN\_AND\_GERE Site: TOWN\_OF\_CONKLIN

Lab Name: VERSAR\_INC. Control No.: 2954 Code: OBRITOWN Batch: 2

Matrix : WATER Level (low/med):

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

Analyte	Control Limit %R	Spiked Sample Result (SSR)	Sample Result (SR)	Spike Added (SA)	%R	Q	M
Aluminum							NR
Antimony	75-125	3387.59	14.00	4000.00	84.7		IP
Arsenic	75-125	61.88	16.67	50.00	90.4		IF
Barium							NR
Beryllium	75-125	1755.96	10.10	2000.00	87.3		IP
Cadmium	75-125	1699.34	12.07	2000.00	84.4		IP
Calcium							NR
Chromium	75-125	1825.15	15.88	2000.00	90.5		IP
Cobalt							NR
Copper	75-125	3601.77	27.93	4000.00	89.3		IP
Iron							NR
Lead	75-125	62.21	13.07	50.00	98.3		IF
Magnesium							NR
Manganese							NR
Mercury	75-125	2.02	0.20	2.00	101.0		CV
Nickel	75-125	3390.89	26.71	4000.00	84.1		IP
Potassium							NR
Selenium	75-125	43.15	3.00	50.00	86.3		IF
Silver	75-125	1673.27	4.50	2000.00	83.4		IP
Sodium							NR
Thallium	75-125	28.12	2.00	50.00	56.2		IF
Vanadium							NR
Zinc	75-125	3394.57	113.74	4000.00	82.0		IP
Cyanide							NR

Comments:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

6  
DUPLICATES

FIELD SAMPLE NO.

10

Client : OBRIEN\_AND\_GERE

Site: TOWN\_OF\_CONKLIN

Lab Name: VERSAR\_INC. Control No.: 2954 Code: OBRITOWN Batch: 2

Matrix : WATER Level (low/med):

% 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								NR
Antimony		14.00	U	14.00	U			IP
Arsenic		16.70		16.00		4.3		IF
Barium								NR
Beryllium		10.10		1.20		157.5		IP
Cadmium		12.10		3.00	U			IP
Calcium								NR
Chromium		15.90		10.00		45.6		IP
Cobalt								NR
Copper		27.90		9.70		96.8		IP
Iron								NR
Lead		13.10		11.50		13.0		IF
Magnesium								NR
Manganese								NR
Mercury		0.20	U	0.20	U			CV
Nickel		26.70		13.60		65.0		IP
Potassium								NR
Selenium		3.00	U	3.00	U			IF
Silver		4.50		4.00	U			IP
Sodium								NR
Thallium		2.00	U	2.00	U			IF
Vanadium								NR
Zinc		113.70		92.20		20.9		IP
Cyanide								NR



9  
ICP SERIAL DILUTION

FIELD SAMPLE NO.

1
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Client : O'BRIEN\_AND\_GERE \_\_\_\_\_ Site: TOWN\_OF\_CONKLIN \_\_\_\_\_

Lab Name: VERSAR\_INC. Control No.: 2954 \_\_\_\_\_ Code: OBRITOWN Batch: 2 \_\_\_\_\_

Matrix : WATER \_\_\_\_\_ Level (low/med): \_\_\_\_\_

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum							IP
Antimony	14.00	U	70.00	U			NR
Arsenic							IF
Barium							IP
Beryllium	10.10		5.90		41.6		IP
Cadmium	12.10		15.00	U			NR
Calcium							IP
Chromium	15.90		17.40		9.4		IP
Cobalt							IP
Copper	27.90		36.60		31.2		IP
Iron							IP
Lead							IF
Magnesium							IP
Manganese							IP
Mercury							CV
Nickel	26.70		25.00	U			NR
Potassium							IP
Selenium							IF
Silver	4.50		20.00	U			NR
Sodium							IP
Thallium							IF
Vanadium							IP
Zinc	113.70		119.60		5.2		IP
Cyanide							AS



ICP ANALYSIS LOG

PROJECT NUMBER ORBITTOWN -2 DATE 7-10-90

ANALYST JK INST. # 4 METHOD 200.7

BATCH COMMENTS ctrl 2954 file 2954.4 Ag Be Cd Co  
Cu Ni Sb Zn

BURN #	SAMPLE NUMBER	COMMENTS
QC-1	QC SET 1	CAL3, CVCO, CVW, PCB
1.	205ABF	
2.	PBW	
3.	LCOM	
4.	24465	
5.	24465L	15 SD
6.	24465D	
7.	24465S	
8.	24466	
9.	24467	
10.	24468	
QC-2	QC SET 2	
11.	24469	
12.	24470	
13.	24471	
14.	24472	
15.	24473	
16.	24474	
17.	24475	
18.	205ABF	
19.		
20.		
QC-3	QC SET 3	
21.		
22.		
23.		
24.		
25.		
26.		
27.		
28.		
29.		
30.		
QC-4	QC SET 4	
31.		
32.		
33.		
34.		
35.		
36.		
37.		
38.		
39.		
40.		
QC-5	QC SET 5	

000742 0003

Method: CLP1150

Standard: CAL1-S0

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2288
Avg	-.00090	.00465	.0053	.00025	.00150	.00020	.00050
#1	-.00060	.00510	.0054	.00030	.00140	.00020	.00080
#2	-.00120	.00420	.0052	.00020	.00160	.00020	.00020
Elem	Co2286	Cr2677	Cu3247	Fe2599	Fe2714	K_7664	Mg2795
Avg	-.00025	.00020	.00030	.00235	.00105	.19640	.00245
#1	-.00030	.00040	.00030	.00240	.00080	.20500	.00220
#2	-.00020	.00000	.00030	.00230	.00130	.18780	.00270
Elem	Mg3822	Mn2576	Na5889	Ni2316	Pb2203	Sb2175	Se1960
Avg	.00045	.00025	.01100	-.00295	.0004	-.00600	-.0071
#1	.00060	.00030	.01120	-.00270	.0001	-.00480	-.0060
#2	.00030	.00020	.01080	-.00320	.0007	-.00720	-.0083
Elem	Tl1908	V_2924	Zn2138				
Avg	-.0010	-.00070	.00310				
#1	-.0014	-.00090	.00300				
#2	-.0005	-.00050	.00320				

PM Calibration

PR 7-10-90

000743

0003,

Method: CLP1150

Standard: CAL2-S1

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2288
Avg	.39980	.00400	.0077	-.00005	.00150	.41760	.10930

#1	.39970	.00430	.0051	.00000	.00150	.41700	.10950
#2	.39990	.00370	.0102	-.00010	.00150	.41820	.10910

Elem	Co2286	Cr2677	Cu3247	Fe2599	Fe2714	K_7664	Mg2795
Avg	.04880	.00075	.03590	.00180	.00205	.19760	.24090

#1	.04890	.00090	.03590	.00190	.00220	.19020	.24040
#2	.04870	.00060	.03590	.00170	.00190	.20500	.24140

Elem	Mg3822	Mn2576	Na5889	Ni2316	Pb2203	Sb2175	Se1960
Avg	.00430	.08170	.01110	-.00260	.0009	-.00620	.0007

#1	.00430	.08160	.01120	-.00310	.0009	-.00580	.0045
#2	.00430	.08180	.01100	-.00210	.0009	-.00660	-.0030

Elem	Tl1908	V_2924	Zn2138
Avg	-.0001	-.00085	.13090

#1	-.0004	-.00090	.13110
#2	.0001	-.00080	.13070

000744  
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Method: CLP1150

Standard: CAL3-S2

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2288
Avg	.00160	.04290	.0059	.16275	.16910	.00380	.00090
#1	.00150	.04300	.0031	.16430	.17110	.00380	.00120
#2	.00170	.04280	.0088	.16120	.16710	.00380	.00060
Elem	Co2286	Cr2677	Cu3247	Fe2599	Fe2714	K_7664	Mg2795
Avg	-.00005	.00065	.00065	.15285	.00730	.18840	.00410
#1	-.00030	.00040	.00070	.15460	.00750	.17940	.00420
#2	.00020	.00090	.00060	.15110	.00710	.19740	.00400
Elem	Mg3822	Mn2576	Na5889	Ni2316	Pb2203	Sb2175	Se1960
Avg	.00065	.00075	.88370	.20040	.0007	.06500	-.0002
#1	.00050	.00080	.89000	.20180	.0004	.06500	-.0058
#2	.00080	.00070	.87740	.19900	.0010	.06500	.0054
Elem	Tl1908	V_2924	Zn2138				
Avg	.0000	-.00160	.00450				
#1	.0000	-.00160	.00470				
#2	.0001	-.00160	.00430				

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Method: CLP1150

Standard: CAL4-S3

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2288
Avg	.00005	.00375	1.018	.00090	.00220	.00125	.00760
#1	-.00010	.00350	1.021	.00090	.00240	.00110	.00890
#2	.00020	.00400	1.016	.00090	.00200	.00140	.00630
Elem	Co2286	Cr2677	Cu3247	Fe2599	Fe2714	K_7664	Mg2795
Avg	-.00025	.15770	.00050	.00180	.00120	.19150	.00215
#1	-.00010	.15810	.00060	.00210	.00170	.19460	.00230
#2	-.00040	.15730	.00040	.00150	.00070	.18840	.00200
Elem	Mg3822	Mn2576	Na5889	Ni2316	Pb2203	Sb2175	Se1960
Avg	.00040	.00045	.01510	-.00145	.0002	-.00600	1.230
#1	.00020	.00040	.01560	-.00120	.0007	-.00580	1.235
#2	.00060	.00050	.01460	-.00170	-.0002	-.00620	1.226
Elem	Tl1908	V_2924	Zn2138				
Avg	.0002	-.00105	.00335				
#1	-.0002	-.00090	.00370				
#2	.0005	-.00120	.00300				

000746

00037

Method: CLP1150

Standard: CAL7-S4

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2288
Avg	-.00070	.00370	.0125	.00035	.00185	.00055	.00020
#1	-.00070	.00320	.0119	.00050	.00200	.00100	.00060
#2	-.00070	.00420	.0132	.00020	.00170	.00010	-.00020
Elem	Co2286	Cr2677	Cu3247	Fe2599	Fe2714	K_7664	Mg2795
Avg	-.00035	.00085	.00030	1.5169	.06225	.19020	2.4236
#1	-.00040	.00090	.00020	1.5167	.0625	.20060	2.4252
#2	-.00030	.00080	.00040	1.5171	.06200	.17980	2.4219
Elem	Mg3822	Mn2576	Na5889	Ni2316	Pb2203	Sb2175	Se1960
Avg	.03785	.00015	.01240	-.00305	.0004	-.00430	-.0064
#1	.03810	.00010	.01240	-.00190	.0010	-.00400	-.0048
#2	.03760	.00020	.01240	-.00420	-.0002	-.00460	-.0080
Elem	Tl1908	V_2924	Zn2138				
Avg	.0008	-.00040	.00385				
#1	.0007	-.00030	.00390				
#2	.0009	-.00050	.00380				

000747  
00030



Method: CLP1150

Standard: CAL8-S5

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2288
Avg	-.00285	.00440	-.0005	.00040	.00170	.00135	.00105
#1	-.00270	.00450	.0019	.00040	.00170	.00140	.00060
#2	-.00300	.00430	-.0028	.00040	.00170	.00130	.00150
Elem	Co2286	Cr2677	Cu3247	Fe2599	Fe2714	K_7664	Mg2795
Avg	-.00020	.00050	.00055	14.570	.60460	.19610	20.099
#1	.00000	.00070	.00040	14.493	.60130	.19180	20.025
#2	-.00040	.00030	.00070	14.646	.60790	.20040	20.173
Elem	Mg3822	Mn2576	Na5889	Ni2316	Pb2203	Sb2175	Se1960
Avg	.36305	.00040	.01190	-.00165	.0009	-.00320	-.0883
#1	.36080	.00040	.01200	-.00090	.0010	-.00260	-.0887
#2	.36530	.00040	.01180	-.00240	.0008	-.00380	-.0880
Elem	Tl1908	V_2924	Zn2138				
Avg	.0060	-.00050	.01045				
#1	.0069	-.00050	.01060				
#2	.0052	-.00050	.01030				

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00035

Method: CLP1150

Standard: CAL5-S6

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2288
Avg	-.00115	.00445	.0072	.00020	.00205	.00530	.00025
#1	-.00060	.00390	.0080	.00010	.00210	.00500	-.00010
#2	-.00170	.00500	.0064	.00030	.00200	.00560	.00060
Elem	Co2286	Cr2677	Cu3247	Fe2599	Fe2714	K_7664	Mg2795
Avg	-.00020	.00050	.00035	.07930	.00280	1.2183	.12515
#1	-.00020	.00090	.00030	.07960	.00280	1.2220	.12790
#2	-.00020	.00010	.00040	.07900	.00280	1.2146	.12240
Elem	Mg3822	Mn2576	Na5889	Ni2316	Pb2203	Sb2175	Se1960
Avg	.00140	.00015	.01140	-.00200	.0004	-.00590	-.0017
#1	.00140	.00010	.01140	-.00200	.0005	-.00540	-.0046
#2	.00140	.00020	.01140	-.00200	.0002	-.00640	.0012
Elem	Tl1908	V_2924	Zn2138				
Avg	-.0009	.17935	.00255				
#1	-.0003	.17960	.00240				
#2	-.0015	.17910	.00270				

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000749

Method: CLP1150

Standard: CAL6-S7

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2288
Avg	-.00110	.00335	.0061	.00005	.00155	.00010	-.00005
#1	-.00110	.00340	.0086	.00010	.00150	.00020	-.00040
#2	-.00110	.00330	.0036	.00000	.00160	.00000	.00030
Elem	Co2286	Cr2677	Cu3247	Fe2599	Fe2714	K_7664	Mg2795
Avg	-.00020	.00050	.00045	.04295	.00315	.18860	.06725
#1	-.00020	.00050	.00050	.04500	.00330	.19700	.06970
#2	-.00020	.00050	.00040	.04090	.00300	.18020	.06480
Elem	Mg3822	Mn2576	Na5889	Ni2316	Pb2203	Sb2175	Se1960
Avg	.00135	.00025	.01140	-.00155	.0186	-.00550	.0005
#1	.00140	.00030	.01140	-.00240	.0182	-.00640	-.0023
#2	.00130	.00020	.01140	-.00070	.0190	-.00460	.0033
Elem	Tl1908	V_2924	Zn2138				
Avg	.0881	.00065	.00320				
#1	.0882	.00070	.00340				
#2	.0880	.00060	.00300				

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Method: CLP1150

Standard: CAL2-S1

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2288
Avg	.18655	.00365	.0080	-.00010	.00140	.00000	.00005
#1	.18580	.00420	.0064	-.00020	.00150	.00020	.00020
#2	.18730	.00310	.0096	.00000	.00130	-.00020	-.00010
Elem	Co2286	Cr2677	Cu3247	Fe2599	Fe2714	K_7664	Mg2795
Avg	-.00025	.00020	.00020	.01300	.00130	.17560	.01975
#1	-.00030	.00030	.00020	.01300	.00200	.19080	.01960
#2	-.00020	.00010	.00020	.01300	.00060	.16040	.01990
Elem	Mg3822	Mn2576	Na5889	Ni2316	Pb2203	Sb2175	Se1960
Avg	.00070	.00015	.01140	-.00045	.0002	-.00690	-.0010
#1	.00070	.00030	.01140	-.00110	.0005	-.00680	-.0004
#2	.00070	.00000	.01140	.00020	-.0002	-.00700	-.0016
Elem	Tl1908	V_2924	Zn2138				
Avg	.0004	-.00060	.00315				
#1	.0009	-.00060	.00320				
#2	.0000	-.00060	.00310				

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Method: CLP1150 Sample Name: CAL3  
Run Time: 07/10/90 17:44:34  
Comment: VERSCRP -4 Soils cntl 3044  
Mode: CONC Corr. Factor: 1

Operator: PR

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2288
Avg	-.00093	.99742	.0304	1.0178	1.0167	.02410	-.00482
#1	-.00308	.99740	.0344	1.0231	1.0173	.01930	-.00623
#2	.00122	.99744	.0264	1.0126	1.0161	.02889	-.00342
Elem	Co2286	Cr2677	Cu3247	Fe2599	Fe2714	K_7664	Mg2795
Avg	-.00211	-.00159	.00291	1.0214	.87969	-.71157	.00531
#1	-.00517	-.00192	.00010	1.0196	.77994	-1.2107	.00425
#2	.00094	-.00127	.00572	1.0231	.97945	-.21247	.00637
Elem	Mg3822	Mn2576	Na5889	Ni2316	Pb2203	Sb2175	Se1960
Avg	-.36439	-.00110	50.865	1.0103	.0215	1.0126	.0414
#1	-.41974	-.00173	51.094	1.0059	.0023	1.0029	.0057
#2	-.30904	-.00047	50.636	1.0148	.0407	1.0223	.0770
Elem	Tl1908	V_2924	Zn2138				
ge	.0396	-.00671	-.00114				
#1	.0346	-.00838	-.00034				
#2	.0446	-.00505	-.00194				

file 2954.4

PR 7-10-90

000752 00043

Method: CLP1150 Sample Name: CCVCO

Operator: PR

Run Time: 07/10/90 17:47:46

Comment: ORRITOWN -2 H2O's cntl 2954

Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2288
Avg	.00056	.47463	.4830	.52154	.51137	20.731	-.00080
#1	.00377	.48248	.5053	.52461	.51494	20.874	.00138
#2	-.00264	.46677	.4607	.51846	.50780	20.587	-.00298
Elem	Co2286	Cr2677	Cu3247	Fe2599	Fe2714	K_7664	Mg2795
Avg	-.00418	.52615	.00428	.49532	.32880	19.569	.50041
#1	-.00316	.52932	.00007	.49830	.29604	20.205	.50208
#2	-.00520	.52297	.00849	.49235	.36155	18.933	.49874
Elem	Mg3822	Mn2576	Na5889	Ni2316	Pb2203	Sb2175	Se1960
Avg	-.46125	-.00179	20.712	.00444	-.0091	.51004	.0421
#1	-.47509	-.00303	20.912	.00396	.0020	.52947	.0451
#2	-.44742	-.00056	20.511	.00492	-.0201	.49060	.0392
Elem	Tl1908	V_2924	Zn2138				
Avg	.0314	-.01237	.51865				
#1	.0372	-.01042	.51986				
#2	.0256	-.01431	.51745				

Method: CLP1150 Sample Name: CCVNO  
 Run Time: 07/10/90 17:50:12  
 Comment: OBRITOWN -2 H2O's cntl 2954  
 Mode: CONC Corr. Factor: 1

Operator: PR

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2288
Avg	.49263	.00076	-.0077	.00092	.00320	.05993	.52476
#1	.48916	-.00582	.0205	.00092	.00290	.06233	.52920
#2	.49609	.00734	-.0359	.00092	.00350	.05753	.52033
Elem	Co2286	Cr2677	Cu3247	Fe2599	Fe2714	K_7664	Mg2795
Avg	.51065	.00658	.52260	-.00518	-.14656	-.51180	-.00206
#1	.50657	.01103	.52822	-.00651	-.12117	-.90342	-.00269
#2	.51472	.00213	.51699	-.00384	-.17195	-.12017	-.00143
Elem	Mg3822	Mn2576	Na5889	Ni2316	Pb2203	Sb2175	Se1960
Avg	-.35055	.51009	.11459	.52171	1.051	.01178	2.031
#1	-.39207	.51133	.10313	.52342	1.046	-.00902	2.011
#2	-.30904	.50886	.12605	.52000	1.057	.03258	2.050
Elem	Tl1908	V_2924	Zn2138				
Avg	2.043	.49770	.00352				
#1	2.031	.49826	.00467				
#2	2.054	.49714	.00236				

Method: CLP1150 Sample Name: ICB

Operator: PR

Run Time: 07/10/90 17:57:09

Comment: OBRITOWN -2 H2O's cntl 2954

Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2288
Avg	-.00215	-.03017	.0451	-.00092	.00089	.00362	-.00066
#1	-.00482	-.04850	.0343	-.00215	.00119	.00243	.00077
#2	.00053	-.01184	.0560	.00031	.00059	.00481	-.00210
Elem	Co2286	Cr2677	Cu3247	Fe2599	Fe2714	K_7664	Mg2795
Avg	-.00204	.00381	.00143	-.00667	-.16370	-.33735	-.00566
#1	.00102	.00317	.00284	-.00700	-.19723	-.23450	-.00524
#2	-.00510	.00444	.00002	-.00635	-.13017	-.44020	-.00608
Elem	Mg3822	Mn2576	Na5889	Ni2316	Pb2203	Sb2175	Se1960
Avg	-.33672	-.00064	.01146	.01181	.0138	.02505	.0438
#1	-.39207	.00059	.01146	.01403	.0220	.03617	.0431
#2	-.28137	-.00186	.01146	.00959	.0055	.01394	.0445
Elem	Tl1908	V_2924	Zn2138				
Avg	.0179	.00084	.00192				
#1	-.0043	.00057	.00151				
#2	.0402	.00112	.00233				

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## Analysis Report

Tue 07-10-90 06:02:19 PM

page 1

Method: CLP1150 Sample Name: ICSABI  
Run Time: 07/10/90 18:00:01  
Comment: OBRITOWN -2 H2O's cnt1 2954  
Mode: CONC Corr. Factor: 1

Operator: PR

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2288
Avg	.82784	476.77	-1.108	.47780	.43238	442.05	.84683
#1	.82326	475.19	-1.118	.47688	.43089	440.60	.85109
#2	.83242	478.36	-1.098	.47872	.43386	443.50	.84257
Elem	Co2286	Cr2677	Cu3247	Fe2599	Fe2714	K_7664	Mg2795
Avg	.42365	.48656	.43763	170.43	173.74	-1.3757	216.77
#1	.42264	.48152	.44060	169.73	173.34	-1.3635	216.35
#2	.42466	.49159	.43465	171.12	174.14	-1.3878	217.19
Elem	Mg3822	Mn2576	Na5889	Ni2316	Pb2203	Sb2175	Se1960
Avg	465.99	.43052	.68179	.84348	4.448	.05758	.0877
#1	464.39	.42494	.66460	.83414	4.453	.06851	.0853
#2	467.60	.43611	.69898	.85282	4.444	.04665	.0900
Elem	Tl1908	V_2924	Zn2138				
Avg	.0565	.42662	.92052				
#1	.0816	.42444	.91779				
#2	.0314	.42881	.92326				

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00047

Method: CLP1150 Sample Name: PBW

Operator: PR

Run Time: 07/10/90 18:11:07

Comment: OBRITOWN -2 H2O's cntl 2954

Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2288
Avgc	.00134	H.23192	.0083	-.00215	.00059	.23360	-.00095
#1	-.00053	H.20569	.0131	-.00154	.00059	.21325	-.00099
#2	.00321	H.25816	.0036	-.00277	.00059	.25396	-.00092
Elem	Co2286	Cr2677	Cu3247	Fe2599	Fe2714	K_7664	Mg2795
Avgc	-.00102	.00254	.00563	.08835	-.01398	-1.3603	.21931
#1	-.00510	.00000	.00844	.08299	-.01369	-2.1921	.20191
#2	.00306	.00508	.00282	.09371	-.01427	-.52853	.23672
Elem	Mg3822	Mn2576	Na5889	Ni2316	Pb2203	Sb2175	Se1960
Avgc	-.11531	-.00246	.01146	.00910	-.0081	.01259	.0253
#1	-.17066	-.00184	.00000	.01057	.0001	.01121	.0512
#2	-.05996	-.00307	.02292	.00763	-.0163	.01397	-.0005
Elem	Tl1908	V_2924	Zn2138				
Avgc	.0226	.00250	.00467				
#1	-.0728	.00222	.00623				
#2	.1180	.00278	.00312				

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Method: CLP1150 Sample Name: LCSM  
Run Time: 07/10/90 18:13:51  
Comment: OBRITOWN -2 H2O's cntl 2954  
Mode: CONC Corr. Factor: 1

Operator: PR

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2288
Avgc	.67986	18.885	3.700	2.0088	1.8472	19.256	1.8286
#1	.67585	18.905	3.639	2.0205	1.8484	19.155	1.8179
#2	.68387	18.866	3.760	1.9971	1.8460	19.356	1.8393
Elem	Co2286	Cr2677	Cu3247	Fe2599	Fe2714	K_7664	Mg2795
Avgc	1.8878	1.9786	3.8141	18.880	18.769	17.074	18.471
#1	1.8837	1.9751	3.8267	18.856	18.802	16.594	18.447
#2	1.8919	1.9821	3.8014	18.903	18.735	17.554	18.494
Elem	Mg3822	Mn2576	Na5889	Ni2316	Pb2203	Sb2175	Se1960
Avgc	18.150	3.7615	35.889	3.7157	3.757	3.6363	3.800
#1	18.178	3.7627	36.255	3.7051	3.721	3.5850	3.804
#2	18.123	3.7603	35.522	3.7263	3.793	3.6876	3.795
Elem	Tl1908	V_2924	Zn2138				
Avgc	3.674	1.8876	3.5983				
#1	3.718	1.8865	3.5688				
#2	3.629	1.8888	3.6277				

analysis Report

Tue 07-10-90 06:18:55 PM

page 1

Method: CLP1150 Sample Name: 24465  
Run Time: 07/10/90 18:16:45  
Comment: OBRITOWN -2 H2O's cntl 2954  
Mode: CONC Corr. Factor: 1

Operator: PR

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2288
Avg	.00450	.55989	.0101	.24548	.01011	129.32	.01207

#1	.00583	.56385	.0214	.24425	.01010	128.97	.01066
#2	.00318	.55593	-.0011	.24671	.01011	129.67	.01348

Elem	Co2286	Cr2677	Cu3247	Fe2599	Fe2714	K_7664	Mg2795
Avg	.00932	.01589	.02794	64.938	65.503	2.1275	24.284

#1	.01034	.01559	.02936	64.610	65.321	3.1845	24.188
#2	.00830	.01619	.02652	65.265	65.686	1.0705	24.380

Elem	Mg3822	Mn2576	Na5889	Ni2316	Pb2203	Sb2175	Se1960
Avg	25.415	6.0716	17.108	.02671	.0657	-.00137	.1267

#1	25.180	6.0421	17.016	.02990	.0708	.00146	.0984
#2	25.650	6.1011	17.199	.02352	.0606	-.00420	.1550

Elem	Tl1908	V_2924	Zn2138
Avg	.1553	.01409	.11374

#1	.3193	.01575	.11374
#2	-.0087	.01242	.11375

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Analysis Report

Tue 07-10-90 06:26:42 PM

page 1

Method: CLP1150 Sample Name: 24465L

Operator: PR

Run Time: 07/10/90 18:24:00

Comment: /5 SD OBRITOWN -2 H2O's cntl 2954

Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2288
Avg	-.00160	.09097	.0153	.04577	.00119	26.240	-.00213
#1	.00160	.08440	.0163	.04577	.00119	26.268	-.00489
#2	-.00481	.09754	.0143	.04577	.00119	26.213	.00063
Elem	Co2286	Cr2677	Cu3247	Fe2599	Fe2714	K_7664	Mg2795
Avg	-.00221	.00347	.00731	13.353	13.220	.16399	5.1319
#1	-.00527	.00093	.00591	13.308	13.262	.19831	5.1266
#2	.00084	.00602	.00871	13.398	13.178	.12967	5.1371
Elem	Mg3822	Mn2576	Na5889	Ni2316	Pb2203	Sb2175	Se1960
Avg	4.7970	1.2352	3.3345	.00451	.0062	-.00331	.0358
#1	4.7555	1.2352	3.3230	.00500	.0144	.00639	.0596
#2	4.8386	1.2352	3.3459	.00401	-.0020	-.01301	.0120
Elem	Tl1908	V_2924	Zn2138				
Avg	.0921	.00193	.02392				
#1	.0021	.00192	.02196				
#2	.1822	.00193	.02588				

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Analysis Report

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Method: CLP1150 Sample Name: 24465D

Operator: PR

Run Time: 07/10/90 18:27:14

Comment: OBRITOWN -2 H2O's cnt1 2954

Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2288
Avg	.00172	.43428	.0044	.22887	.00118	125.34	.00068
#1	.00147	.43556	.0163	.23195	.00118	125.99	.00519
#2	.00197	.43300	-.0074	.22580	.00118	124.70	-.00383
Elem	Co2286	Cr2677	Cu3247	Fe2599	Fe2714	K_7664	Mg2795
Avg	.00119	.00999	.00971	63.556	64.216	1.9491	23.456
#1	.00220	.00869	.00969	64.096	64.523	1.7090	23.612
#2	.00017	.01128	.00972	63.017	63.909	2.1893	23.300
Elem	Mg3822	Mn2576	Na5889	Ni2316	Pb2203	Sb2175	Se1960
Avg	24.557	5.8713	16.426	.01364	.0521	-.01657	.1379
#1	24.848	5.9130	16.661	.01708	.0361	-.02633	.1042
#2	24.267	5.8295	16.191	.01019	.0680	-.00682	.1715
Elem	Tl1908	V_2924	Zn2138				
ge	.1913	.00577	.09222				
#1	.1220	.00521	.09103				
#2	.2607	.00633	.09342				

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Analysis Report

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Method: CLP1150 Sample Name: 244655

Operator: PR

Run Time: 07/10/90 18:29:30

Comment: OBRITOWN -2 H2O's cntl 2954

Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2288
Avg	1.6733	18.171	3.508	2.0996	1.7560	139.48	1.6993

#1	1.6738	18.105	3.548	2.0909	1.7515	139.37	1.6804
#2	1.6728	18.236	3.467	2.1082	1.7604	139.60	1.7183

Elem	Co2286	Cr2677	Cu3247	Fe2599	Fe2714	K_7664	Mg2795
Avg	1.7311	1.8252	3.6018	78.764	79.097	18.486	H38.462

#1	1.7301	1.8254	3.5863	78.633	78.880	18.256	H38.403
#2	1.7321	1.8249	3.6172	78.894	79.314	18.716	H38.520

Elem	Mg3822	Mn2576	Na5889	Ni2316	Pb2203	Sb2175	Se1960
Avg	41.356	9.1613	50.407	3.3909	3.484	3.3876	3.685

#1	41.176	9.1503	50.052	3.3909	3.459	3.3848	3.664
#2	41.536	9.1724	50.762	3.3909	3.509	3.3904	3.706

Elem	Tl1908	V_2924	Zn2138
ge	3.394	1.7439	3.3946

#1	3.311	1.7389	3.3879
#2	3.477	1.7489	3.4012

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Method: CLP1150 Sample Name: 24466  
Run Time: 07/10/90 18:33:03  
Comment: OBRITOWN -2 H2O's cntl 2954  
Mode: CONC Corr. Factor: 1

Operator: PR

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2288
Avg	.00418	1.3759	.0106	.02030	.00387	19.392	.00147
#1	.00660	1.3641	.0101	.02060	.00416	19.355	.00056
#2	.00176	1.3877	.0111	.01999	.00358	19.429	.00237
Elem	Co2286	Cr2677	Cu3247	Fe2599	Fe2714	K_7664	Mg2795
Avg	-.00105	.00753	.01069	2.0282	1.8450	-.04180	5.6850
#1	.00099	.00944	.01070	2.0071	1.9119	.83419	5.6615
#2	-.00308	.00561	.01068	2.0494	1.7781	-.91779	5.7085
Elem	Mg3822	Mn2576	Na5889	Ni2316	Pb2203	Sb2175	Se1960
Avg	5.3782	.07148	5.3455	.01135	.0269	.01327	.0221
#1	5.3644	.06842	5.2939	.00718	.0241	.02432	-.0230
#2	5.3921	.07454	5.3970	.01552	.0297	.00221	.0672
Elem	Tl1908	V_2924	Zn2138				
Avg	.1843	.00410	.01840				
#1	.2064	.00660	.01960				
#2	.1622	.00160	.01719				

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Method: CLP1150 Sample Name: 24467

Operator: PR

Run Time: 07/10/90 18:35:40

Comment: OBRITOWN -2 H2O's cntl 2954

Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2288
Avg	.00107	.04453	.0375	.00154	.00239	.37018	.00029
#1	.00374	.05892	.0219	.00215	.00238	.37138	-.00285
#2	-.00160	.03015	.0530	.00092	.00239	.36898	.00343
Elem	Co2286	Cr2677	Cu3247	Fe2599	Fe2714	K_7664	Mg2795
Avg	.00000	.00602	.00705	.13173	.01857	-1.0082	.08910
#1	-.00306	.00888	.00845	.13073	-.01390	-.85157	.08869
#2	.00306	.00316	.00565	.13274	.05104	-1.1648	.08952
Elem	Mg3822	Mn2576	Na5889	Ni2316	Pb2203	Sb2175	Se1960
Avg	-.25369	.01044	.15469	.01475	.0029	.00151	.0717
#1	-.28137	.01043	.14896	.01942	-.0053	.00294	.0706
#2	-.22602	.01044	.16042	.01008	.0112	.00009	.0728
Elem	Tl1908	V_2924	Zn2138				
Avg	.1179	.00056	.00935				
#1	.0619	.00223	.00855				
#2	.1738	-.00111	.01015				

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Method: CLP1150 Sample Name: 24468

Operator: PR

Run Time: 07/10/90 18:40:40

Comment: OBRITOWN -2 H2O's cntl 2954

Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2288
Avge	-.00656	.99577	-.0059	.03630	.00119	69.532	-.00297
#1	-.00577	.98660	-.0127	.03661	.00120	69.448	-.00294
#2	-.00735	1.0049	.0010	.03599	.00119	69.616	-.00299
Elem	Co2286	Cr2677	Cu3247	Fe2599	Fe2714	K_7664	Mg2795
Avge	-.00104	.00047	.00466	1.4861	1.3795	.45246	19.533
#1	-.00104	-.00335	.00604	1.4871	1.3458	.40845	19.532
#2	-.00104	.00428	.00327	1.4851	1.4132	.49647	19.534
Elem	Mg3822	Mn2576	Na5889	Ni2316	Pb2203	Sb2175	Se1960
Avge	19.949	.15183	17.268	.00593	-.0028	-.00559	.0555
#1	20.060	.15428	17.314	.00371	-.0220	-.01670	.0649
#2	19.839	.14938	17.222	.00814	.0164	.00551	.0461
Elem	Tl1908	V_2924	Zn2138				
ge	.1170	.00079	.01292				
#1	.0386	-.00116	.01253				
#2	.1954	.00273	.01332				

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Method: CLP1150 Sample Name: CCVC1  
 Run Time: 07/10/90 18:43:16  
 Comment: ORRITOWN -2 H2O's cntl 2954  
 Mode: CONC Corr. Factor: 1

Operator: PR

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2288
Avg	-.00051	.45494	.5020	.52492	.51346	21.095	-.00824
#1	.00377	.47198	.5075	.52461	.51316	21.157	-.00964
#2	-.00479	Q.43791	.4965	.52523	.51376	21.033	-.00684

Elem	Co2286	Cr2677	Cu3247	Fe2599	Fe2714	K_7664	Mg2795
Avg	-.00724	.53153	.00286	.51211	.32067	19.265	Q.57065
#1	-.00724	.53248	.00287	.51784	.39550	19.090	Q.57422
#2	-.00724	.53057	.00286	.50638	.24585	19.441	Q.56708

Elem	Mg3822	Mn2576	Na5889	Ni2316	Pb2203	Sb2175	Se1960
Avg	-.33672	.00127	20.723	.00714	-.0310	.50866	.0352
#1	-.33672	.00313	20.660	.01232	-.0200	.53223	.0451
#2	-.33672	-.00058	20.786	.00197	-.0420	.48508	.0252

Elem	Tl1908	V_2924	Zn2138
Avg	.1437	-.01263	.52179
#1	.1264	-.01208	.51981
#2	.1610	-.01319	.52377

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Method: CLP1150 Sample Name: CCVN1  
 Run Time: 07/10/90 18:46:05  
 Comment: OBRITOWN -2 H2O's cntl 2954  
 Mode: CONC Corr. Factor: 1

Operator: PR

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2288
Avg	.49904	-.00312	.0134	.00092	.00200	.12940	.51415
#1	.50038	-.00055	-.0129	.00154	.00170	.13420	.52571
#2	.49769	-.00570	.0397	.00031	.00231	.12461	.50259
Elem	Co2286	Cr2677	Cu3247	Fe2599	Fe2714	K_7664	Mg2795
Avg	.51778	.00213	.52962	-.00483	-.09716	1.1028	.01786
#1	.51268	.00087	.52822	-.00382	-.07113	1.8367	.01828
#2	.52287	.00339	.53103	-.00584	-.12319	.36886	.01744
Elem	Mg3822	Mn2576	Na5889	Ni2316	Pb2203	Sb2175	Se1960
Avg	-.29520	.51194	.05156	.53204	1.049	.01733	2.049
#1	-.28137	.51502	.05729	.53229	1.046	.01872	2.041
#2	-.30904	.50887	.04583	.53180	1.051	.01594	2.057
Elem	Tl1908	V_2924	Zn2138				
Avg	2.076	.49853	.00346				
#1	1.963	.50103	.00151				
#2	2.188	.49603	.00541				

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Method: CLP1150 Sample Name: CCB1  
 Run Time: 07/10/90 18:48:59  
 Comment: OBRITOWN -2 H2O's cnt1 2954  
 Mode: CONC Corr. Factor: 1

Operator: PR

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2288
Avg	.00293	-.00787	.0411	.00092	.00119	.06712	.00029
#1	.00160	-.00655	.0470	.00092	.00119	.06472	.00255
#2	.00426	-.00918	.0352	.00092	.00119	.06951	-.00197

Elem	Co2286	Cr2677	Cu3247	Fe2599	Fe2714	K_7664	Mg2795
Avg	.00306	.00254	.00425	-.00365	-.12235	-.67019	.00776
#1	.00306	.00254	.00565	-.00164	-.08079	-.89026	.00608
#2	.00306	.00254	.00285	-.00565	-.16392	-.45011	.00943

Elem	Mg3822	Mn2576	Na5889	Ni2316	Pb2203	Sb2175	Se1960
Avg	-.36439	.00305	.02865	.00615	-.0109	.00840	.0381
#1	-.33672	.00183	.02292	.00419	-.0329	.00560	.0296
#2	-.39207	.00427	.03438	.00811	.0111	.01120	.0466

Elem	Tl1908	V_2924	Zn2138
Avg	.1075	.00195	.00351
#1	.2308	.00223	.00390
#2	-.0158	.00168	.00311

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Analysis Report

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Method: CLP1150 Sample Name: 24469  
 Run Time: 07/10/90 18:51:49  
 Comment: OBRITOWN -2 H2O's cntl 2954  
 Mode: CONC Corr. Factor: 1

Operator: PR

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2288
Avg	.00165	.44683	.0205	.00830	.00089	32.081	-.00230
#1	.00165	.46256	.0186	.01015	.00059	31.995	-.00320
#2	.00165	.43110	.0224	.00646	.00119	32.167	-.00140
Elem	Co2286	Cr2677	Cu3247	Fe2599	Fe2714	K_7664	Mg2795
Avg	-.00408	.00225	-.00213	.63484	.49218	.42160	6.3858
#1	-.00306	.00003	-.00072	.63485	.46736	-.07754	6.3630
#2	-.00510	.00447	-.00353	.63483	.51700	.92074	6.4087
Elem	Mg3822	Mn2576	Na5889	Ni2316	Pb2203	Sb2175	Se1960
Avg	6.1393	.00928	7.5226	.00418	.0154	-.00362	.0715
#1	6.1116	.00805	7.4825	.00417	.0237	-.01193	.0539
#2	6.1670	.01051	7.5627	.00419	.0072	.00468	.0891
Elem	Tl1908	V_2924	Zn2138				
Avg	-.0154	.00165	.00236				
#1	.0016	.00220	.00314				
#2	-.0324	.00109	.00157				

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Analysis Report

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Method: CLP1150 Sample Name: 24470  
Run Time: 07/10/90 18:54:15  
Comment: OBRITOWN -2 H2O's cntl 2954  
Mode: CONC Corr. Factor: 1

Operator: PR

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2288
Avg	-.00406	1.2314	.0267	.02891	-.00060	8.1887	-.00254
#1	-.00405	1.2301	.0135	.02983	-.00120	8.1744	-.00295
#2	-.00406	1.2328	.0400	.02798	-.00001	8.2031	-.00213
Elem	Co2286	Cr2677	Cu3247	Fe2599	Fe2714	K_7664	Mg2795
Avg	-.00004	.00190	.00271	3.0311	2.8566	-.37839	2.6535
#1	-.00514	.00285	-.00010	3.0240	2.9232	-.27047	2.6445
#2	.00506	.00095	.00552	3.0381	2.7900	-.48631	2.6625
Elem	Mg3822	Mn2576	Na5889	Ni2316	Pb2203	Sb2175	Se1960
Avg	2.3339	.38839	3.5751	.00941	-.0272	-.01687	.0570
#1	2.3478	.38901	3.5293	.00917	-.0273	.00252	.0960
#2	2.3201	.38776	3.6209	.00964	-.0272	-.03627	.0180
Elem	Tl1908	V_2924	Zn2138				
Avg	.0383	.00187	.01567				
#1	.0211	.00104	.01568				
#2	.0556	.00270	.01567				

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Analysis Report

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page 1

Method: CLP1150 Sample Name: 24471  
 Run Time: 07/10/90 18:56:44  
 Comment: OBRITOWN -2 H2O's cntl 2954  
 Mode: CONC Corr. Factor: 1

Operator: PR

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2288
Avg	-.00040	1.1916	.0256	.05937	-.00120	42.371	-.00156
#1	-.00039	1.1982	.0043	.06060	-.00120	42.354	-.00420
#2	-.00041	1.1850	.0469	.05814	-.00120	42.387	.00107
Elem	Co2286	Cr2677	Cu3247	Fe2599	Fe2714	K_7664	Mg2795
Avg	-.00207	.00307	.00187	2.7940	2.6495	3.4475	9.2891
#1	.00098	.00148	.00468	2.7914	2.7074	3.9465	9.2722
#2	-.00513	.00465	-.00095	2.7967	2.5916	2.9485	9.3061
Elem	Mg3822	Mn2576	Na5889	Ni2316	Pb2203	Sb2175	Se1960
Avg	9.0867	.72967	42.323	.01139	.0120	-.00663	.0382
#1	9.1006	.72415	42.076	.00770	.0119	-.01219	.0116
#2	9.0729	.73519	42.569	.01508	.0121	-.00107	.0647
Elem	Tl1908	V_2924	Zn2138				
Avg	.1507	.00247	.00900				
#1	.2009	.00274	.00861				
#2	.1006	.00220	.00939				

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analysis Report

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Method: CLP1150 Sample Name: 24472  
Run Time: 07/10/90 18:59:16  
Comment: OBRITOWN -2 H2O's cnt1 2954  
Mode: CONC Corr. Factor: 1

Operator: PR

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2288
Avg	-.00463	22.923	-.0029	.21298	.00083	12.034	.00302
#1	-.00597	22.985	-.0245	.21421	.00053	12.020	.00268
#2	-.00329	22.862	.0187	.21175	.00113	12.047	.00337
Elem	Co2286	Cr2677	Cu3247	Fe2599	Fe2714	K_7664	Mg2795
Avg	.01673	.03760	.05813	44.191	44.141	4.5567	8.2983
#1	.01877	.03950	.05533	44.172	44.082	4.8208	8.3021
#2	.01469	.03569	.06093	44.211	44.199	4.2926	8.2946
Elem	Mg3822	Mn2576	Na5889	Ni2316	Pb2203	Sb2175	Se1960
Avg	7.9935	1.0384	6.6575	.04245	.0284	-.01740	.0519
#1	7.9382	1.0384	6.6919	.03409	.0395	-.01740	.0465
#2	8.0489	1.0384	6.6231	.05081	.0174	-.01740	.0573
Elem	Tl1908	V_2924	Zn2138				
Avg	.1222	.02690	.17332				
#1	.1057	.02718	.17258				
#2	.1386	.02661	.17407				

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Analysis Report

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Method: CLP1150 Sample Name: 24473  
Run Time: 07/10/90 20:37:49  
Comment: OBRITOWN -2 H2O's cntl 2954  
Mode: CONC Corr. Factor: 1

Operator: PR

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2288
Avg	.00155	.03572	.0252	.08028	.00298	8.8407	.00028
#1	.00155	.02918	.0227	.08028	.00298	8.8215	-.00016
#2	.00155	.04227	.0276	.08028	.00299	8.8598	.00072
Elem	Co2286	Cr2677	Cu3247	Fe2599	Fe2714	K_7664	Mg2795
Avg	.00911	.00638	.00573	4.8146	4.5977	.78197	1.9264
#1	.01115	.00511	.00572	4.8196	4.5481	1.4278	1.9270
#2	.00707	.00764	.00573	4.8096	4.6474	.13612	1.9258
Elem	Mg3822	Mn2576	Na5889	Ni2316	Pb2203	Sb2175	Se1960
Avg	1.6421	2.7674	6.5773	.01549	.0236	-.00237	.0458
#1	1.6559	2.7662	6.5887	.01918	.0264	.00042	.0409
#2	1.6282	2.7686	6.5658	.01180	.0209	-.00517	.0507
Elem	Tl1908	V_2924	Zn2138				
Avg	.0788	.00014	.01288				
#1	.0117	.00125	.01170				
#2	.1459	-.00097	.01407				

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analysis Report

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page 1

Method: CLP1150 Sample Name: 24474  
Run Time: 07/10/90 20:40:23  
Comment: OBRITOWN -2 H2O's cntl 2954  
Mode: CONC Corr. Factor: 1

Operator: PR

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2288
Avg	-.00050	.11406	.0520	.08520	.00089	9.3319	-.00258
#1	-.00050	.11009	.0307	.08643	.00119	9.3391	-.00111
#2	-.00050	.11803	.0732	.08397	.00059	9.3247	-.00405
Elem	Co2286	Cr2677	Cu3247	Fe2599	Fe2714	K_7664	Mg2795
Avg	.01317	.00190	.00019	6.1065	5.9749	1.3305	2.0094
#1	.01113	.00317	-.00542	6.1401	6.0084	1.6633	2.0185
#2	.01521	.00063	.00581	6.0729	5.9415	.99766	2.0004
Elem	Mg3822	Mn2576	Na5889	Ni2316	Pb2203	Sb2175	Se1960
Avg	1.7666	3.0592	6.5601	.01775	.0329	-.00108	.0019
#1	1.7666	3.0770	6.6002	.01824	.0304	-.00244	.0354
#2	1.7666	3.0414	6.5200	.01725	.0354	.00029	-.0315
Elem	Tl1908	V_2924	Zn2138				
Avg	.0648	.00095	.01722				
#1	.0702	.00123	.01646				
#2	.0594	.00067	.01799				

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00065

Analysis Report

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page 1

Method: CLP1150 Sample Name: 24475  
 Run Time: 07/10/90 20:43:27  
 Comment: OBRITOWN -2 H2O's cntl 2954  
 Mode: CONC Corr. Factor: 1

Operator: PR

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2288
Avg	.00085	3.0993	-.0115	.04213	-.00001	12.132	.00172
#1	.00138	3.1019	-.0186	.04274	-.00001	12.180	-.00008
#2	.00032	3.0967	-.0044	.04151	-.00001	12.084	.00352
Elem	Co2286	Cr2677	Cu3247	Fe2599	Fe2714	K_7664	Mg2795
Avg	.00096	.00805	.02519	4.6193	4.5167	2.0316	3.3056
#1	.00096	.00868	.02238	4.6254	4.4999	2.3152	3.3121
#2	.00096	.00742	.02799	4.6133	4.5334	1.7480	3.2991
Elem	Mg3822	Mn2576	Na5889	Ni2316	Pb2203	Sb2175	Se1960
Avg	3.0950	3.7042	7.3049	.01088	.0166	.01101	.0261
#1	3.0950	3.7066	7.3221	.01776	.0304	.00689	.0623
#2	3.0950	3.7017	7.2877	.00400	.0028	.01512	-.0101
Elem	Tl1908	V_2924	Zn2138				
Avg	.0740	.00462	.04505				
#1	.0572	.00406	.04464				
#2	.0907	.00517	.04546				

00066  
000775

alysis Report

Tue 07-10-90 08:50:05 PM

page 1

Method: CLP1150 Sample Name: ICSABF  
 Run Time: 07/10/90 20:47:45  
 Comment: OBRITOWN -2 H2O's cnt1 2954  
 Mode: CONC Corr. Factor: 1

Operator: PR

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2288
Avg	.83431	485.48	-.9605	.48362	.43714	450.72	.86741
#1	.83860	487.34	-.9744	.48485	.43862	451.62	.87241
#2	.83002	483.62	-.9466	.48239	.43565	449.81	.86240
Elem	Co2286	Cr2677	Cu3247	Fe2599	Fe2714	K_7664	Mg2795
Avg	.42666	.49677	.44195	172.84	177.00	-1.3447	218.45
#1	.42462	.49516	.44737	173.38	177.15	-2.3497	218.06
#2	.42870	.49838	.43653	172.30	176.84	-.33963	218.84
Elem	Mg3822	Mn2576	Na5889	Ni2316	Pb2203	Sb2175	Se1960
Avg	478.29	.44635	.73336	.85412	4.525	.07552	.1118
#1	479.91	.45005	.72190	.86125	4.516	.07162	.1362
#2	476.67	.44264	.74481	.84639	4.535	.07942	.0874
Elem	Tl1908	V_2924	Zn2138				
Avg	.1921	.43275	.94013				
#1	.0787	.43521	.94049				
#2	.3055	.43029	.93977				

000776  
00067

Method: CLP1150      Sample Name: CCVC2  
 Run Time: 07/10/90 20:53:30  
 Comment: OBRITOWN -2 H2O's cntl 2954  
 Mode: CONC      Corr. Factor: 1

Operator: PR

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2288
Avg	.00191	Q.79437	.4945	.52307	.51047	20.906	-.00179
#1	.00325	Q.74716	.5363	.52400	.51435	20.977	-.00155
#2	.00058	Q.84157	.4528	.52215	.50659	20.834	-.00204
Elem	Co2286	Cr2677	Cu3247	Fe2599	Fe2714	K_7664	Mg2795
Avg	-.00418	.52837	-.00136	Q.62192	.49511	18.781	Q.82247
#1	-.00724	.53440	-.00275	Q.60780	.52870	Q17.563	Q.77549
#2	-.00113	.52234	.00003	Q.63604	.46152	19.999	Q.86944
Elem	Mg3822	Mn2576	Na5889	Ni2316	Pb2203	Sb2175	Se1960
Avg	-.08764	.00191	20.723	.00419	-.0006	.49201	.0848
#1	-.19834	.00192	20.820	.00001	-.0253	.49062	.1288
#2	.02306	.00191	20.626	.00836	.0242	.49339	.0409
Elem	Tl1908	V_2924	Zn2138				
Avg	.0191	-.01099	.52064				
#1	-.0765	-.01042	.52695				
#2	.1147	-.01155	.51434				

000777  
000888

Method: CLP1150 Sample Name: CCVN2  
 Run Time: 07/10/90 20:56:11  
 Comment: OBRITOWN -2 H2O's cntl 2954  
 Mode: CONC Corr. Factor: 1

Operator: PR

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2288
Avg	.48328	.21042	.0088	.00154	.00262	.32583	.52282

#1	.48434	.23529	.0307	.00092	.00292	.37374	.53552
#2	.48222	.18556	-.0132	.00215	.00232	.27792	.51013

Elem	Co2286	Cr2677	Cu3247	Fe2599	Fe2714	K_7664	Mg2795
Avg	.50555	.00116	.52258	.08347	-.02355	-1.6130	.22375

#1	.50046	.00021	.51976	.09691	-.00704	-.99159	.25646
#2	.51064	.00211	.52539	.07004	-.04006	-2.2343	.19105

Elem	Mg3822	Mn2576	Na5889	Ni2316	Pb2203	Sb2175	Se1960
Avg	-.12915	.50888	.11459	.51581	1.035	.00898	1.945

#1	-.08764	.51257	.12605	.50917	1.013	.00478	1.961
#2	-.17066	.50520	.10313	.52245	1.057	.01317	1.929

Elem	Tl1908	V_2924	Zn2138
Avg	1.991	.49075	.00272

#1	2.087	.48880	.00314
#2	1.896	.49269	.00231

00068  
 000778

Method: CLP1150 Sample Name: CCB2  
 Run Time: 07/10/90 20:58:56  
 Comment: OBRITOWN -2 H2O's cntl 2954  
 Mode: CONC Corr. Factor: 1

Operator: PR

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2288
Avg	.00320	.14941	.0341	.00062	.00119	.18808	-.00105
#1	.00320	.16121	.0141	.00031	.00178	.18449	.00180
#2	.00320	.13760	.0541	.00092	.00059	.19166	-.00390

Elem	Co2286	Cr2677	Cu3247	Fe2599	Fe2714	K_7664	Mg2795
Avg	.00713	.00285	.00563	.05511	-.09775	1.0176	.14740
#1	.00917	.00190	.00563	.05276	-.11452	1.7514	.14404
#2	.00509	.00380	.00563	.05746	-.08098	.28378	.15075

Elem	Mg3822	Mn2576	Na5889	Ni2316	Pb2203	Sb2175	Se1960
Avg	-.14299	.00490	.04583	.00714	.0112	.02089	.0622
#1	-.17066	.00551	.04583	.00468	.0002	.01120	.0818
#2	-.11531	.00429	.04583	.00960	.0222	.03058	.0425

Elem	Tl1908	V_2924	Zn2138
Avg	.0793	.00223	.00271
#1	.0962	.00223	.00233
#2	.0623	.00223	.00310

000780

00070





ELEMENT: AS  
PBAS

CODE-BATCH: 0BRT702N-2

CONTROL #: 2954

DATE: 7/16/90

TRAY #: 1

CALIB. TIME: 2200  
1730R

CUP	LAB/EPA SAMPLE #	AV. ABS.	UNADJ. CONC.	D. F.	*	COMMENTS
1	PBW+B	3	<3.0			
2	+20	67	18.3			(92)
3	24463 +B	62	16.7			
4	+20	118	35.0			(93)
5	24465 D+B	60	16.0			RFB=4.2%
6	+20	118	35.0			(95)
7	24465 S	200	61.9			90.4%
8	LCS M	162	49.4			98.8%
9	24466 +B	6	<3.0			
10	+20	68	18.6			(93)
11	CCV 1	172	52.71			105.4%
12	CCR 1	-1	<3.0			
13	24467 +B	0	<3.0			
14	+20	64	17.3			(86)
15	24468 +B	-2	<3.0			
16	+20	77	21.6			(108)+0.8%
17	24469 +B	1	<3.0			
18	+20	70	19.3			(96)
19	24470 +B	10	<3.0			
20	+20	76	21.2			(106)
21	24471 +B	37	8.48			
22	+20	102	29.8			(107)
23	CCV 2	465	50.42			100.3%
24	CCR 2	4	<3.0			
25	24472 +B	45	11.1			
26	+20	100	29.1			(98)
27	24473 +B	15	<3.0			
28	+20	76	21.2			(106)
29	24474 +B	25	4.55			
30	+20	88	25.2			(103)
31	24475 +B	4	<3.0			
32	+20	72	19.9			(100)
33	CCV 3	158	48.12			96.2%
34	CCB 3	3	<3.0			
35						
36						
37						
38						
39						
40						

CCV = 25 ppb NBS  
 ICV = ICV #4 = 104 ppb  
 ( ) = % recovery of MSA  
 = g/ L ( wt. )

SPIKE = (HCH) 50 ug/l  
 = (SOLID) — mg/kg  
 = (BENCH) CC0779

ANALYST: JS CC0779  
00072

3/6

OBRITOWN-2

9S 7/16/90

calibration

```

AS
0.000          -0.003
-----
MEAN=  -0.001  STD.DEV.=          COEF.VAR.= 99.99 %
*****
0.000          AUTOZERO
*****
AS 0001
0.002          -0.006
-----
MEAN=  -0.002  STD.DEV.=          COEF.VAR.= 99.99 %
*****
AS 0002
0.046          0.040
-----
MEAN=   0.043  STD.DEV.=          COEF.VAR.= 11.31 %
*****
AS 0003
0.078          0.082
-----
MEAN=   0.080  STD.DEV.=          COEF.VAR.=  3.09 %
*****
AS 0004
0.175          0.175
-----
MEAN=   0.175  STD.DEV.=          COEF.VAR.=  0.25 %
*****
AS 0005
0.309          0.309
-----
MEAN=   0.309  STD.DEV.=          COEF.VAR.=  0.05 %
*****
AS 0006
0.177          0.178
-----
MEAN=   0.177  STD.DEV.=          COEF.VAR.=  0.43 %
*****
AS 0007
0.003          0.001
-----
MEAN=   0.002  STD.DEV.=          COEF.VAR.= 77.16 %
*****

```

000783  
00070

```

AS 0001
  0.002      0.004
-----
MEAN= 0.003  STD.DEV.=          COEF.VAR.= 47.29 %
*****
AS 0002
  0.068      0.067
-----
MEAN= 0.067  STD.DEV.=          COEF.VAR.= 1.46 %
*****
AS 0003
  0.061      0.062
-----
MEAN= 0.062  STD.DEV.=          COEF.VAR.= 1.36 %
*****
AS 0004
  0.121      0.115
-----
MEAN= 0.118  STD.DEV.=          COEF.VAR.= 3.24 %
*****
AS 0005
  0.062      0.058
-----
MEAN= 0.060  STD.DEV.=          COEF.VAR.= 5.53 %
*****
AS 0006
  0.110      0.126
-----
MEAN= 0.118  STD.DEV.=          COEF.VAR.= 9.42 %
*****
AS 0007
  0.204      0.195
-----
MEAN= 0.200  STD.DEV.=          COEF.VAR.= 3.11 %
*****
AS 0008
  0.169      0.156
-----
MEAN= 0.162  STD.DEV.=          COEF.VAR.= 5.52 %
*****
AS 0009
  0.005      0.007
-----
MEAN= 0.006  STD.DEV.=          COEF.VAR.= 24.48 %
*****
AS 0010
  0.063      0.074
-----
MEAN= 0.068  STD.DEV.=          COEF.VAR.= 11.36 %
*****
AS 0011
  0.162      0.180
-----
MEAN= 0.172  STD.DEV.=          COEF.VAR.= 6.97 %
*****

AS 0012
  -0.001     -0.001
-----
MEAN= -0.001  STD.DEV.=          COEF.VAR.= 5.41 %
*****
AS 0013
  0.002     -0.004
-----
MEAN= 0.000  STD.DEV.=          COEF.VAR.= 99.99 %
*****
AS 0014
  0.062      0.066
-----
MEAN= 0.064  STD.DEV.=          COEF.VAR.= 4.23 %
*****
AS 0015
  -0.002     -0.001
-----

```

4/6

OBRITON-2

95 7/16/90

May 1

CC0784

00074

```

MEAN= -0.002 STD.DEV.= COEF.VAR.= 53.55 %
*****
AS 0016
0.078 0.076
-----
MEAN= 0.077 STD.DEV.= COEF.VAR.= 1.76 %
*****
AS 0017
0.000 0.001
-----
MEAN= 0.001 STD.DEV.= COEF.VAR.= 81.62 %
*****
AS 0018
0.074 0.067
-----
MEAN= 0.070 STD.DEV.= COEF.VAR.= 6.66 %
*****
AS 0019
0.012 0.008
-----
MEAN= 0.010 STD.DEV.= COEF.VAR.= 28.85 %
*****
AS 0020
0.078 0.074
-----
MEAN= 0.076 STD.DEV.= COEF.VAR.= 3.14 %
*****
AS 0021
0.036 0.039
-----
MEAN= 0.037 STD.DEV.= COEF.VAR.= 6.11 %
*****
AS 0022
0.101 0.103
-----
MEAN= 0.102 STD.DEV.= COEF.VAR.= 1.24 %
*****

```

```

AS 0023
0.165 0.165
-----
MEAN= 0.165 STD.DEV.= COEF.VAR.= 0.28 %
*****
AS 0024
0.004 0.003
-----
MEAN= 0.004 STD.DEV.= COEF.VAR.= 12.70 %
*****
AS 0025
0.041 0.049
-----
MEAN= 0.045 STD.DEV.= COEF.VAR.= 12.15 %
*****
AS 0026
0.096 0.103
-----
MEAN= 0.100 STD.DEV.= COEF.VAR.= 5.05 %
*****
AS 0027
0.015 0.015
-----
MEAN= 0.015 STD.DEV.= COEF.VAR.= 2.64 %
*****
AS 0028
0.075 0.078
-----
MEAN= 0.076 STD.DEV.= COEF.VAR.= 3.26 %
*****
AS 0029
0.024 0.026
-----
MEAN= 0.025 STD.DEV.= COEF.VAR.= 4.19 %
*****
AS 0030

```

5/6  
OBRITDOWN-  
957/16/9  
T May 1

000785  
00075

6/6

OBRTOWN-2

93 7/16/90

Tray 1

```

0.088      0.087
-----
MEAN= 0.088  STD.DEV.=          COEF.VAR.= 0.07 %
*****
AS 0031
0.010      -0.002
-----
MEAN= 0.004  STD.DEV.=          COEF.VAR.= 99.99 %
*****
AS 0032
0.078      0.045
-----
MEAN= 0.072  STD.DEV.=          COEF.VAR.= 12.38 %
*****
AS 0033
0.151      0.164
-----
MEAN= 0.158  STD.DEV.=          COEF.VAR.= 5.66 %
*****

```

```

AS 0034
0.009      -0.003
-----
MEAN= 0.003  STD.DEV.=          COEF.VAR.= 99.99 %
*****

```

000786

00078



ELEMENT: Pb

CODE-BATCH: OBRIYOWU-2

CONTROL #: 2954

DATE: 7/16/90

TRAY #: 2

2300  
CALIB. TIME: 18459

CUP	LAB/EPA SAMPLE #	AV. ABS.	UNADJ. CONC.	D. F.	*	COMMENTS
1	PRW+B	453 1	42.0			
2	+10	9593 35	8.76			(88)
3	24465+B	51	13.0			
4	+10	87	22.8			(98)
5	24465 D+B	45	11.4			RPD = 13.1%
6	+10	78	20.3			(89)
7	24465 S	118	31.1	1:1		(50) 99.4%
8	LC5M	97	25.4	1:1		(50) 101.8%
9	24466+B	10	2.03			
10	+10	47	12.0			(100)
11	CCV 1	99	25.99			104.0%
12	CCB 1	-1	42.0			
13	24467+B	13	2.84			
14	+20/10	45	11.4			(86)
15	24468+B	3	42.0			
16	+10	40	10.1			(101)
17	24469+B	-1	42.0			
18	+10	38	9.57			(96)
19	24470+B	11	2.30			
20	+10	47	12.0			(97)
21	24471+B	4	42.0			
22	+10	43	10.9			(102)
23	CCV 2	94	24.64			98.6%
24	CCB 2	-3	42.0			
25	24472+B	124	32.7			
26	+10	156	41.3			(86)
27	24473+B	5	42.0			
28	+10	40	10.1			(101)
29	24474+B	9	42.0			
30	+10	44	11.2			(112)
31	24475+B	18	4.18			
32	+10	53	13.6			(94)
33	CCV 3	89	23.30			93.2%
34	CCB 3	-2	42.0			
35						
36						
37						
38						
39						
40						

CCV = 25 ppb NBS  
 CV = ICV #4 = 97.5 ppb  
 ) = % recovery of MSA  
 — g/ — L ( — wt.)

SPIKE = (MOH) 50 ug/l  
 = (SOLID) — mg/kg  
 = (BENCH) —

ANALYST: QS 000788



Char DC - 40, 0.00000000 Pb  
93 7/16/90  
Calibration

	0.001	
	0.002	
	0.002	AV
	47.14	CV
	0.000	CV
	-0.002	
	-0.001	
	-0.001	AV
	47.14	CV
	0.020	
	0.021	
	0.021	AV
	3.45	CV
	0.039	
	0.042	
	0.040	AV
	5.24	CV
	0.082	
	0.081	
	0.082	AV
	0.67	CV
	0.185	
	0.183	
	0.186	AV
	1.91	CV
	0.073	
	0.073	
	0.073	AV
	0.000	CV
	-0.002	
	-0.001	
	-0.001	AV
	47.14	CV

AV	0.000	5
AV	0.002	
CV	0.000	
AV	0.095	4
AV	0.095	
CV	0.095	
AV	1.49	3
AV	0.095	
AV	0.094	
CV	0.098	
AV	0.75	2
AV	0.093	
AV	0.093	
CV	0.094	
CV	0.00	
AV	0.003	1
AV	0.003	
AV	0.003	

Chart DC-40  
 45 7/16/90  
 Trng 1

PO OBRITOWN - 2  
95 7/16/90  
Tray 2

1	0.001 0.001 0.001 AV 0.00 CV 0.035 0.035			0.013 0.012 0.015 AV 5.85 CV 0.041 0.046			0.124 0.124	
2	0.035 AV 0.00 CV 0.051 0.051		14	0.045 AV 3.14 CV 0.003 0.003		25	0.124 AV 0.00 CV 0.155	
3	0.051 AV 0.00 CV 0.086 0.085		15	0.003 AV 0.00 CV 0.042 0.038		26	0.154 0.155 AV 1.81 CV 0.005	
4	0.087 AV 1.83 CV 0.045 0.045		15	0.049 AV 7.07 CV -0.001 0.003		27	0.005 AV 0.00 CV 0.039	
5	0.045 AV 1.55 CV 0.077 0.079		17	-0.001 AV 0.038 0.038		28	0.041 AV 0.041 CV 3.51 CV 0.007	
6	0.073 AV 1.81 CV 0.118 0.118		15	0.034 AV 0.00 CV 0.015 0.009		29	0.010 0.009 AV 24.96 CV 0.043	
7	0.118 AV 0.01 CV 0.103 0.093		19	0.011 AV 25.71 CV 0.046 0.047		30	0.045 0.044 AV 4.77 CV 0.013	
8	0.097 AV 5.13 CV 0.009 0.013		20	0.047 AV 1.32 CV 0.003 0.003		31	0.017 0.013 AV 4.84 CV 0.053	
9	0.013 AV 7.24 CV 0.045 0.043		21	0.004 AV 47.14 CV 0.043 0.042		32	0.053 AV 0.00 CV 0.087 0.090	
10	0.047 AV 3.01 CV 0.047 0.102		22	0.043 AV 1.85 CV 0.093 0.095		33	0.089 AV 2.40 CV -0.002 -0.003	
11	0.099 AV 3.55 CV -0.002 -0.001		23	0.094 AV 1.50 CV -0.004 -0.002		34	-0.002 AV 28.25 CV	
12	-0.001 AV 47.14 CV		24	-0.003 AV 47.14 CV				

VERSAR, INC.  
TRACE METALS SECTION  
GFAA ANALYSIS LOG SHEET

ELEMENT: Se DATE: 7/17/90 PAGE 1 OF 6  
 CODE-BATCH: ORBITOWN - 2 CONTROL #: 2954

Instrument #: 10 Light Source: EDL  
 Wavelength: 196.0 Slit: 0.7 Current/Power: 6 WATTS  
 Signal:        Pk.Ht.  Pk.Area Tubes: LV9(P&S) Pipet Vol.: 25 ul  
 Background Correction:  BZ  BD Replicates: 2 Purge: 0 Ar  
 Standard Prep.: Date: 7/17/90 Matrix Modifiers:  yes  no  
 Time: 0730  
 Source: Indigo's Ventures

FURNACE CONDITIONS

Step	1	2	3	4	5
Temp °C	130	1000	2000	2500	20
Ramp (s)	5	5	0	1	1
Hold (s)	40	15	5	3	8
BOC (s)					
Rec. (s)					

CALIBRATION CURVE

CUP	STANDARD	AV. ABS.	UNADJ. CONC.	D.F.	COMMENTS
1	CB 0ppb	7			r= 0.9999
2	STD1 5ppb	15			CRA= 4.76
3	STD2 10ppb	34			
4	STD3 20ppb	69			
5	STD4 50ppb	178			
6	ICV# 2	90	25.62	1.3	[ 104.0 ] 98.5%
7	ICB 0ppb	2	28.0		

Time of Calibration: 2215

Analyst: AS  
 Reviewer: HR

ELEMENT: Se

CODE-BATCH: ORRSTOWN-2

CONTROL #: 2954

DATE: 7/17/90

TRAY #: 1

CALIB. TIME: 2215

CUP	LAB/EPA SAMPLE #	AV. ABS.	UNADJ. CONC.	D.F.	*	COMMENTS
1	PRW + B	-2	<3.0			
2	+10	30	8.93			(89)
3	24463 + B	-5	<3.0 w <sup>1</sup>			
4	+10	25	7.84			(75)
5	24463 D + B	4	<3.0			RPD = NC
6	+10	29	8.65			(76)
7	24463 S	153	43.1			[50] 86.2%
8	CCSM	168	47.3			[50] 94.6%
9	24464 + B	14	<del>44.85</del>			reunited CV
10	+10	48	13.9			(91)
11	CCV1	<del>489</del>	25.07			100.3%
12	CCB1	14	<del>44.85</del>			reunited CV
13	CCB1	10	3.37			
14	24467 + B	19	5.47			
15	+10	56	16.2			(102)
16	24468 + B	11	3.65			
17	+10	49	14.2			(100)
18	24469 + B	9	<del>3.09</del>			reunited CV
19	+10	38	11.2			(88)
20	24470 + B	12	3.93			
21	+10	46	13.4			(95)
22	24471 + B	3	<3.0			
23	+10	39	11.4			(114)
24	CCV2	90	25.62			100.5%
25	CCB2	4	<3.0			
26	24472 + B	2	<3.0			
27	+10	34	10.0			(100)
28	24473 + B	3	<3.0			
29	+10	37	10.9			(102)
30	24474 + B	-2	<3.0			
31	+10	31	9.21			(92)
32	24475 + B	2	<3.0			
33	+10	33	9.77			(98)
34	95 CCB3 24466 + B	-4	<3.0			
35	95 CCB3 +10	37	10.9			(102)
36	95 CCV3 CCB3	2	<3.0			
37	95 CCB3 CCV3	80	23.84			91.4%
38						
39						
40						

CCV = 2500b  
 ICV = \_\_\_\_\_  
 ( ) = % recovery of MSA  
 \* = g/ - L ( - wt.)

SPIKE = (HON) 50 ug/l  
 = (SOLID) \_\_\_\_\_ mg/kg  
 = (BENCH) \_\_\_\_\_

ANALYST: JS 000793  
00083

OBRITOWN-2  
AS 7/17/90  
Calibration

SE	0.009	0.004		
MEAN=	0.006	STD.DEV.=	COEF.VAR.=	46.41 %
*****				
	0.000	AUTOZERO		
*****				
SE	0001			
	-0.003	0.001		
MEAN=	-0.001	STD.DEV.=	COEF.VAR.=	39.99 %
*****				
SE	0002			
	0.012	0.019		
MEAN=	0.015	STD.DEV.=	COEF.VAR.=	28.79 %
*****				
SE	0003			
	0.033	0.036		
MEAN=	0.034	STD.DEV.=	COEF.VAR.=	5.49 %
*****				
SE	0004			
	0.067	0.070		
MEAN=	0.069	STD.DEV.=	COEF.VAR.=	2.88 %
*****				
SE	0005			
	0.181	0.175		
MEAN=	0.178	STD.DEV.=	COEF.VAR.=	2.08 %
*****				
SE	0006			
	0.088	0.092		
MEAN=	0.090	STD.DEV.=	COEF.VAR.=	3.81 %
*****				
SE	0007			
	-0.002	-0.003		
MEAN=	-0.002	STD.DEV.=	COEF.VAR.=	44.38 %
*****				

4/6

ORRFTOWN-7

95 7/17/90

Tray 1

```

SE 0001
0.005 -0.010
-----
MEAN= -0.002 STD.DEV.= COEF.VAR.= 99.99 %
*****
SE 0002
0.031 0.030
-----
MEAN= 0.030 STD.DEV.= COEF.VAR.= 1.36 %
*****
SE 0003
0.000 -0.010
-----
MEAN= -0.005 STD.DEV.= COEF.VAR.= 99.99 %
*****
SE 0004
0.026 0.024
-----
MEAN= 0.025 STD.DEV.= COEF.VAR.= 6.71 %
*****
SE 0005
0.006 0.002
-----
MEAN= 0.004 STD.DEV.= COEF.VAR.= 71.89 %
*****
SE 0006
0.031 0.028
-----
MEAN= 0.029 STD.DEV.= COEF.VAR.= 7.58 %
*****
SE 0007
0.146 0.159
-----
MEAN= 0.153 STD.DEV.= COEF.VAR.= 5.84 %
*****
SE 0008
0.174 0.162
-----
MEAN= 0.168 STD.DEV.= COEF.VAR.= 5.27 %
*****
SE 0009
0.009 0.018
-----
MEAN= 0.014 STD.DEV.= COEF.VAR.= 50.45 %
*****
SE 0010
0.048 0.048
-----
MEAN= 0.048 STD.DEV.= COEF.VAR.= 1.22 %
*****
SE 0011
0.095 0.081
-----
MEAN= 0.088 STD.DEV.= COEF.VAR.= 11.58 %
*****

```

```

SE 0012
-0.012 0.040
-----
MEAN= 0.014 STD.DEV.= COEF.VAR.= 99.99 %
*****
SE 0013
0.008 0.011
-----
MEAN= 0.010 STD.DEV.= COEF.VAR.= 21.36 %
*****
SE 0014
0.016 0.021
-----

```

000795

00085

SE 0015  
0.059 0.054

MEAN= 0.056 STD.DEV.= COEF.VAR.= 6.06 %  
\*\*\*\*\*

SE 0016  
0.013 0.009

MEAN= 0.011 STD.DEV.= COEF.VAR.= 20.54 %  
\*\*\*\*\*

SE 0017  
0.051 0.046

MEAN= 0.049 STD.DEV.= COEF.VAR.= 6.74 %  
\*\*\*\*\*

SE 0018  
0.022 -0.003

MEAN= 0.009 STD.DEV.= COEF.VAR.= 99.99 %  
\*\*\*\*\*

SE 0019  
0.036 0.040

MEAN= 0.038 STD.DEV.= COEF.VAR.= 6.61 %  
\*\*\*\*\*

SE 0020  
0.012 0.012

MEAN= 0.012 STD.DEV.= COEF.VAR.= 0.92 %  
\*\*\*\*\*

SE 0021  
0.046 0.047

MEAN= 0.046 STD.DEV.= COEF.VAR.= 1.91 %  
\*\*\*\*\*

SE 0022  
0.012 -0.007

MEAN= 0.003 STD.DEV.= COEF.VAR.= 99.99 %  
\*\*\*\*\*

SE 0023  
0.035 0.044

MEAN= 0.039 STD.DEV.= COEF.VAR.= 15.29 %  
\*\*\*\*\*

SE 0024  
0.096 0.084

MEAN= 0.090 STD.DEV.= COEF.VAR.= 9.58 %  
\*\*\*\*\*

SE 0025  
0.008 -0.000

MEAN= 0.004 STD.DEV.= COEF.VAR.= 99.99 %  
\*\*\*\*\*

SE 0026  
0.003 0.001

MEAN= 0.002 STD.DEV.= COEF.VAR.= 69.09 %  
\*\*\*\*\*

SE 0027  
0.033 0.034

MEAN= 0.034 STD.DEV.= COEF.VAR.= 2.83 %  
\*\*\*\*\*

SE 0028  
-0.006 0.013

MEAN= 0.003 STD.DEV.= COEF.VAR.= 99.99 %  
\*\*\*\*\*

SE 0029

5/6  
OBRIEN  
9571719  
May 1

00085

000796



MEAN= 0.037 STD.DEV.= COEF.VAR.= 19.58 %  
\*\*\*\*\*  
SE 0030

6/6

OBRITOWA  
93 7/171  
Tlay1

-0.001 -0.003  
-----  
MEAN= -0.002 STD.DEV.= COEF.VAR.= 94.74 %  
\*\*\*\*\*  
SE 0031  
0.033 0.030

-----  
MEAN= 0.031 STD.DEV.= COEF.VAR.= 5.36 %  
\*\*\*\*\*  
SE 0032  
0.005 0.000

-----  
MEAN= 0.002 STD.DEV.= COEF.VAR.= 99.99 %  
\*\*\*\*\*  
SE 0033  
0.034 0.032

-----  
MEAN= 0.033 STD.DEV.= COEF.VAR.= 3.55 %  
\*\*\*\*\*

SE 0034  
-0.001 -0.006  
-----  
MEAN= -0.004 STD.DEV.= COEF.VAR.= 91.57 %  
\*\*\*\*\*  
SE 0035  
0.031 0.044

-----  
MEAN= 0.037 STD.DEV.= COEF.VAR.= 25.05 %  
\*\*\*\*\*  
SE 0036  
0.001 0.002

-----  
MEAN= 0.002 STD.DEV.= COEF.VAR.= 69.48 %  
\*\*\*\*\*  
SE 0037  
0.078 0.082

-----  
MEAN= 0.080 STD.DEV.= COEF.VAR.= 3.05 %  
\*\*\*\*\*

VERSAR, INC.  
TRACE METALS SECTION  
GFAA ANALYSIS LOG SHEET

ELEMENT: Se 3      DATE: 7/18/90      PAGE 1 OF 8

CODE-BATCH: Perland-1      CONTROL #: 3080  
OBRTOWN - 2 (cont.)      2954

Instrument #: 6      Light Source: EDL  
Wavelength: 196.0 Slit: 2.0      Current/Power: 6 watts  
Signal: Pk.Ht.  Pk.Area      Tube: Lv(LPE) Pipet Vol.: 25 ul  
Background Correction: BZ  BD      Replicates: 2 Purge: 0 Ar

Standard Prep.: Date: 7/18/90      Matrix Modifiers:  yes  no  
Time: 0730  
Source: INDIGAS  
Ventures

FURNACE CONDITIONS

Step	1	2	3	4	5
Temp °C	120	1000	2100	2500	20
Ramp (s)	5	5	0	1	1
Hold (s)	40	15	5	3	8
BOC (s)		14			
Rec. (s)					

CALIBRATION CURVE

CUP	STANDARD	AV. ABS.	UNADJ. CONC.	D.F.	COMMENTS
1	CB 0 ppb	1			r = 0.9999
2	STD1 5 ppb	27			CRA = 4.85
3	STD2 10 ppb	54			
4	STD3 20 ppb	107			
5	STD4 50 ppb	258			
6	ICV# 2	131	25.10	1.3	[104 ppb] 96.5%
7	ICB 0 ppb	6	2.0		

Time of Calibration: 1900

Analyst: QS

Reviewer: tk

ELEMENT: Se 3

CODE-BATCH: OBRTOWN - 2 (cont.)

CONTROL #: 2954

DATE: 7/18/90

TRAY #: 1

CALIB. TIME: 1900

CUP	LAB/EPA SAMPLE #	AV. ABS.	UNADJ. CONC.	D.F.	*	COMMENTS
1	24469 +B	5	42.0			
2	+10	54	10.5			(103)
3	CCV1	132	25.29			• 101.290
4	CCB1	6	42.0			
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
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31						
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33						
34						
35						
36						
37						
38						
39						
40						

CCV = 25ppb NBS

ICV =     

( ) = % recovery of MSA

\* =      g/      L (      wt. )

SPIKE = (HGH)      ug/l

= (SOLID)      mg/kg

= (BENCH)     

ANALYST: QS

000799 00080

5/8

OBSSTON-2

Perland-1

AS 7/18/90

Calibratio

Se OBSSTON-2, Perland-1  
AS 7/18/90 Calibration

0	-0.012	
	-0.012	
	-0.012	AV
	0.00	CV
	0.000	AZ
	-0.000	
1	0.001	
	0.001	AV
	0.001	ER
2	0.024	
	0.030	
	0.027	AV
3	15.71	CV
	0.054	
	0.054	
4	0.054	AV
	0.00	CV
	0.106	
5	0.109	
	0.107	AV
	1.32	CV
6	0.257	
	0.260	
	0.258	AV
7	0.82	CV
	0.131	
	0.131	
	0.131	AV
	0.00	CV
	0.007	
	0.006	
	0.005	AV
	10.00	CV

00030

000800



7/8  
Perland-1  
95 7/18/90  
May 2

SE Perland-1  
95 7/18/90 May 2

1	-0.000 0.004 0.002 06 0.059 0.056	AV ER	13	-0.005 -0.010 -0.007 47.14 0.023 0.018	AV CV	25	0.007 0.007 0.007 0.00 -0.028 -0.026	AV CV
2	0.058 3.69 0.015 -0.001	AV CV	14	0.021 17.25 -0.008 -0.012	AV CV	26	-0.027 5.24 -0.004 -0.002	AV CV
3	0.007 06 0.033 0.033	AV ER	15	-0.010 28.28 0.022 0.018	AV CV	27	-0.003 47.14 0.027 0.023	AV CV
4	0.033 0.00 0.006 0.007	AV CV	16	0.020 14.14 0.084 0.084	AV CV	28	0.025 11.31 -0.061 -0.060	AV CV
5	0.006 10.89 0.055 0.053	AV CV	17	0.084 0.00 0.108 0.108	AV CV	29	-0.061 1.17 -0.037 -0.037	AV CV
6	0.054 2.62 -0.007 -0.008	AV CV	18	0.108 0.00 -0.061 -0.065	AV CV	30	-0.037 0.00 -0.023 -0.025	AV CV
7	-0.007 9.43 0.030 0.027	AV CV	19	-0.063 4.49 -0.032 -0.033	AV CV	31	-0.024 5.89 0.006 0.004	AV CV
8	0.029 7.44 -0.004 -0.006	AV CV	20	-0.033 2.18 -0.047 -0.051	AV CV	32	0.005 26.23 -0.009 -0.006	AV CV
9	-0.005 28.28 0.035 0.034	AV CV	21	-0.049 5.77 -0.024 -0.020	AV CV	33	-0.007 28.28 0.01 0.01	AV CV
10	0.035 2.05 0.119 0.125	AV CV	22	-0.022 12.86 0.103 0.108	AV CV	34	0.00 10 0 0	AV CV
11	0.122 3.48 0.006 0.007	AV CV	23	0.100 3.35 0.006 0.009	AV CV	35	0 0 0 0	AV CV
12	0.007 10.89	AV CV	24	0.008 28.28	AV CV			

35  
28.28  
0.01  
0.01  
0.00  
10  
0  
0  
0  
0

8/8

Perland-1

QS 7/18/90

May 3

PERLAND-1 SE  
QS 7/18/90  
May 3

0	0.006								
	0.007								
	0.007	AV							
	10.88	CV							
	0.000	AZ							
	0.003								
	0.001		13						
	0.002	AV							
	70.71	CV							
	0.022								
	0.018		14						
	0.020	AV							
	14.14	CV							
	0.038								
	0.038		15						
	0.038	AV							
	0.00	CV							
	0.076								
	0.076		16						
	0.076	AV							
	0.00	CV							
	0.184								
	0.184		17						
	0.184	AV							
	0.00	CV							
	0.094								
	0.094		18						
	0.094	AV							
	0.00	CV							
	0.002								
	0.000		19						
	0.001	AV							
	06	ER							
	-0.037								
	-0.037		20						
	-0.037	AV							
	0.00	CV							
	-0.010								
	-0.014		21						
	-0.012	AV							
	23.57	CV							
	-0.060								
	-0.061		22						
	-0.060	AV							
	1.17	CV							
	-0.036								
	-0.039		23						
	-0.037	AV							
	5.66	CV							
	-0.057								
	-0.058		24						
	-0.058	AV							
	1.23	CV							

-0.030  
-0.033  
-0.032 AV  
6.73 CV  
-0.031  
-0.035  
-0.033 AV  
8.57 CV  
-0.009  
-0.009  
-0.009 AV  
0.00 CV  
-0.034  
-0.036  
-0.035 AV  
4.04 CV  
-0.010  
-0.008  
-0.009 AV  
15.71 CV  
0.089  
0.094  
0.091 AV  
3.86 CV  
-0.000  
-0.002  
-0.001 AV  
05 ER  
-0.032  
-0.033  
-0.032 AV  
2.19 CV  
-0.011  
-0.010  
-0.011 AV  
6.73 CV  
-0.034  
-0.036  
-0.035 AV  
4.04 CV  
-0.006  
-0.010  
-0.008 AV  
35.36 CV  
-0.031  
-0.030  
-0.030 AV  
2.32 CV

-0.005  
-0.004  
25 -0.005 AV  
15.71 CV  
-0.002  
-0.002  
26 -0.002 AV  
0.00 CV  
0.020  
0.020  
27 0.020 AV  
0.00 CV  
0.048  
0.045  
28 0.046 AV  
4.56 CV  
0.088  
0.086  
29 0.087 AV  
1.63 CV  
0.000  
0.000  
30 0.000 AV  
05 ER

0003  
CC0803





ELEMENT: TC

CODE-BATCH: ODR/TOWN 2

CONTROL #: 2954

DATE: 7-18-90

TRAY #: 1

CALIB. TIME: 1935

CUP	LAB/EPA SAMPLE #	AV. ABS.	UNADJ. CONC.	D. F.	*	COMMENTS
1	PBW TB	0	<2.0			
2	T20	65	17.7			(88.5)
3	LC5m	82	22.5	1:1		90.2%
4	24465 TB	0	<2.0 W			
5	T20	40	10.7			(53.5)
6	24465 D TB	1	<2.0 W			RPD = NC
7	T20	39	10.4			(52.0)
8	24465 S	52	14.1	1:1		56.2%
9	24466 TB	-1	<2.0			
10	T20	51	13.8			(69.0)
11	CCV1	90	24.81			99.2% rec
12	CCB1	0	<2.0			
13	24467 TB	11	2.46			
14	T20	79	21.7			(96.2)
15	24468 TB	1	<2.0 W			
16	T20	32	8.40			(42.0)
17	24469 TB	0	<2.0 W			
18	T20	50	13.5			(67.5)
19	24470 TB	0	<2.0 W			
20	T20	53	14.3			(71.5)
21	24471 TB	1	-			area 1:4
22	T20	28	7.27			(36.4)
23	CCV2	97	26.79			107.2% rec
24	CCB2	0	<2.0			
25	24472 TB	1	<2.0 W			
26	T20	60	16.3			(81.5)
27	24473 TB	0	<2.0 W			
28	T20	51	13.8			(69.0)
29	24474 TB	0	<2.0 W			
30	T20	51	13.8			(69.0)
31	24475 TB	0	<2.0 W			
32	T20	49	13.2			(66.0)
33	24471 TB	0	<2.0 W	1:4		
34	T20	42	11.2			(50.0)
35	CCV3	94	25.94			103.5% rec
36	CCB3	0	<2.0			
37						
38						
39						
40						

CCV = NBS @ 25ppb  
 ICV = \_\_\_\_\_  
 ( ) = % recovery of MSA  
 = \_\_\_\_\_ g / \_\_\_\_\_ L ( \_\_\_\_\_ wt.)

SPIKE = (H0H) 50 ug/l  
 = (SOLID) \_\_\_\_\_ mg/kg  
 = (BENCH) \_\_\_\_\_

ANALYST: JK

00095

000805

```

L 0.000 0001 -0.001
-----
MEAN= 0.000 STD.DEV.= COEF.VAR.= 70.71 %
*****
L 0.039 0002 0.038
-----
MEAN= 0.039 STD.DEV.= COEF.VAR.= 2.19 %
*****
L 0.077 0003 0.074
-----
MEAN= 0.075 STD.DEV.= COEF.VAR.= 3.00 %
*****
L 0.179 0004 0.176
-----
MEAN= 0.178 STD.DEV.= COEF.VAR.= 1.43 %
*****
L 0.092 0005 0.091
-----
MEAN= 0.092 STD.DEV.= COEF.VAR.= 0.92 %
*****
L 0.000 0006 0.000
-----
MEAN= 0.000 STD.DEV.= COEF.VAR.= 0.00 %
*****

```

3/10

1755

1759

7-18-90

Calibration  
 \*r

ENSIVAN-1 3028  
 VERSCHAP-1 R 2957  
 ORBITOWN-2 2954

000866

6/12 4/10  
#

TL 0.001 0001 -0.001  
-----  
MEAN= 0.000 STD. DEV. = COEF. VAR. = 99.99 %  
\*\*\*\*\*  
TL 0.029 0002 0.025  
-----  
MEAN= 0.027 STD. DEV. = COEF. VAR. = 11.44 %  
\*\*\*\*\*  
TL 0.000 0003 0.001  
-----  
MEAN= 0.000 STD. DEV. = COEF. VAR. = 99.99 %  
\*\*\*\*\*  
TL 0.052 0004 0.054  
-----  
MEAN= 0.053 STD. DEV. = COEF. VAR. = 2.68 %  
\*\*\*\*\*  
TL 0.000 0005 -0.001  
-----  
MEAN= 0.000 STD. DEV. = COEF. VAR. = 70.71 %  
\*\*\*\*\*  
TL 0.053 0006 0.060  
-----  
MEAN= 0.059 STD. DEV. = COEF. VAR. = 2.39 %  
\*\*\*\*\*  
TL -0.001 0007 -0.001  
-----  
MEAN= -0.001 STD. DEV. = COEF. VAR. = 0.00 %  
\*\*\*\*\*  
TL 0.057 0008 0.062  
-----  
MEAN= 0.060 STD. DEV. = COEF. VAR. = 3.17 %  
\*\*\*\*\*  
TL 0.093 0009 0.094  
-----  
MEAN= 0.094 STD. DEV. = COEF. VAR. = 0.50 %  
\*\*\*\*\*  
TL -0.001 0010 -0.001  
-----  
MEAN= -0.001 STD. DEV. = COEF. VAR. = 0.00 %  
\*\*\*\*\*  
TL 0.001 0011 -0.001  
-----  
MEAN= 0.000 STD. DEV. = COEF. VAR. = 0.00 %  
\*\*\*\*\*

1831

1834

TRAY  
ENGLVAN-1  
#K  
7-1890

TL 0.055 0012 0.056  
-----  
MEAN= 0.055 STD. DEV. = COEF. VAR. = 0.00 %  
\*\*\*\*\*  
TL 0.078 0013 0.074  
-----  
MEAN= 0.076 STD. DEV. = COEF. VAR. = 3.35 %  
\*\*\*\*\*  
TL 0.092 0014 0.092  
-----  
MEAN= 0.092 STD. DEV. = COEF. VAR. = 0.61 %  
\*\*\*\*\*  
TL 0.000 0015 0.001  
-----  
MEAN= 0.000 STD. DEV. = COEF. VAR. = 0.00 %  
\*\*\*\*\*

00007

000807

1000

7/2 5/10

HK

TRAY  
ENGIVAN-1  
HK  
7-18-90

6/10

MEAN=	0.000	0.001	COEF. VAR. =	94.28 %
TL	0.079	0.077		
MEAN=	0.078	0.078	COEF. VAR. =	1.82 %
TL	0.047	0.045		
MEAN=	0.046	0.046	COEF. VAR. =	2.45 %
TL	0.096	0.090		
MEAN=	0.093	0.093	COEF. VAR. =	4.26 %
TL	0.096	0.090		
MEAN=	0.093	0.093	COEF. VAR. =	4.26 %
TL	0.001	0.002		
MEAN=	0.001	0.001	COEF. VAR. =	70.71 %
TL	0.063	0.055		
MEAN=	0.059	0.059	COEF. VAR. =	9.14 %
TL	0.000	-0.001		
MEAN=	0.000	0.056	COEF. VAR. =	39.88 %
TL	0.056	0.057		
MEAN=	0.056	0.056	COEF. VAR. =	0.50 %
TL	0.087	0.089		
MEAN=	0.088	0.088	COEF. VAR. =	2.25 %
TL	-0.001	0.000		
MEAN=	0.000	0.000	COEF. VAR. =	70.71 %
TL	0.071	0.072		
MEAN=	0.072	0.072	COEF. VAR. =	0.79 %

TRAY 1  
 Verslaap - 1 R  
 7-18-90  
 JK

1925

1929

MEAN=	0.001	0.001	COEF. VAR. =	0.00 %
TL	0.058	0.052		
MEAN=	0.055	0.055	COEF. VAR. =	7.74 %
TL	0.084	0.092		

00096

000809

1071

7/10

TRAG?  
Verslaap - 1 R  
7-18-70  
HK

8/10

```

L 0.001 0001 -0.001
-----
MEAN= 0.000 STD.DEV.= COEF.VAR.= 99.99 %
*****
L 0.054 0002 0.066
-----
MEAN= 0.065 STD.DEV.= COEF.VAR.= 2.17 %
*****
L 0.079 0003 0.086
-----
MEAN= 0.082 STD.DEV.= COEF.VAR.= 6.28 %
*****
L 0.000 0004 0.001
-----
MEAN= 0.000 STD.DEV.= COEF.VAR.= 70.71 %
*****
L 0.043 0005 0.039
-----
MEAN= 0.040 STD.DEV.= COEF.VAR.= 7.70 %
*****
L 0.001 0006 0.001
-----
MEAN= 0.001 STD.DEV.= COEF.VAR.= 56.57 %
*****
L 0.040 0007 0.037
-----
MEAN= 0.039 STD.DEV.= COEF.VAR.= 4.40 %
*****
L 0.051 0008 0.052
-----
MEAN= 0.052 STD.DEV.= COEF.VAR.= 1.09 %
*****
L 0.000 0009 -0.001
-----
MEAN= -0.001 STD.DEV.= COEF.VAR.= 94.28 %
*****
L 0.052 0010 0.051
-----
MEAN= 0.051 STD.DEV.= COEF.VAR.= 2.20 %
*****
L 0.082 0011 0.088
-----
MEAN= 0.080 STD.DEV.= COEF.VAR.= 3.15 %
*****

```

OBRITOWN - 2

TRAY 1  
7-18-70  
HR

```

L 0.000 0012 0.000
-----
MEAN= 0.000 STD.DEV.= COEF.VAR.= 0.00 %
*****
L 0.011 0013 0.011
-----
MEAN= 0.011 STD.DEV.= COEF.VAR.= 0.00 %
*****
L 0.077 0014 0.081
-----
MEAN= 0.079 STD.DEV.= COEF.VAR.= 3.93 %
*****
L 0.002 0015 0.001
-----

```

00101

000811

9/10

MEAN= 0.001 STD. DEV. = COEF. VAR. = 80.81 %  
 \*\*\*\*\*  
 TL 0.034 0016 0.030  
 -----  
 MEAN= 0.032 STD. DEV. = COEF. VAR. = 8.89 %  
 \*\*\*\*\*  
 TL 0.000 0017 0.000  
 -----  
 MEAN= 0.000 STD. DEV. = COEF. VAR. = 0.00 %  
 \*\*\*\*\*  
 TL 0.049 0018 0.051  
 -----  
 MEAN= 0.050 STD. DEV. = COEF. VAR. = 3.38 %  
 \*\*\*\*\*  
 TL 0.000 0019 -0.001  
 -----  
 MEAN= 0.000 STD. DEV. = COEF. VAR. = 99.99 %  
 \*\*\*\*\*  
 TL 0.055 0020 0.050  
 -----  
 MEAN= 0.053 STD. DEV. = COEF. VAR. = 7.53 %  
 \*\*\*\*\*  
 TL 0.001 0021 0.001  
 -----  
 MEAN= 0.001 STD. DEV. = COEF. VAR. = 0.00 %  
 \*\*\*\*\*  
 TL 0.027 0022 0.029  
 -----  
 MEAN= 0.028 STD. DEV. = COEF. VAR. = 4.07 %  
 \*\*\*\*\*

OBRITOWN -2

TRAY 1

7-18-90

HR

TL 0.097 0023 0.097  
 -----  
 MEAN= 0.097 STD. DEV. = COEF. VAR. = 0.29 %  
 \*\*\*\*\*  
 TL 0.000 0024 0.000  
 -----  
 MEAN= 0.000 STD. DEV. = COEF. VAR. = 0.00 %  
 \*\*\*\*\*  
 TL 0.001 0025 0.001  
 -----  
 MEAN= 0.001 STD. DEV. = COEF. VAR. = 0.00 %  
 \*\*\*\*\*  
 TL 0.059 0026 0.061  
 -----  
 MEAN= 0.060 STD. DEV. = COEF. VAR. = 2.34 %  
 \*\*\*\*\*  
 TL -0.001 0027 0.001  
 -----  
 MEAN= 0.000 STD. DEV. = COEF. VAR. = 0.00 %  
 \*\*\*\*\*  
 TL 0.051 0028 0.052  
 -----  
 MEAN= 0.051 STD. DEV. = COEF. VAR. = 2.20 %  
 \*\*\*\*\*  
 TL 0.000 0029 0.000  
 -----  
 MEAN= 0.000 STD. DEV. = COEF. VAR. = 0.00 %  
 \*\*\*\*\*

000812



10/10

```

0.052          0.051
-----
MEAN= 0.051   STD.DEV.=          COEF.VAR.= 1.10 %
*****
TL 0.000 0031          0.001
-----
= 0.000   STD.DEV.=          COEF.VAR.= 70.71 %
*****
TL 0.048 0032          0.050
-----
MEAN= 0.049   STD.DEV.=          COEF.VAR.= 2.87 %
*****
TL 0.000 0033          0.000
-----
MEAN= 0.000   STD.DEV.=          COEF.VAR.= 0.00 %
*****
TL 0.043 0034          0.042
-----
AN= 0.042   STD.DEV.=          COEF.VAR.= 2.00 %
*****
TL 0.091 0035          0.097
-----
AN= 0.094   STD.DEV.=          COEF.VAR.= 4.53 %
*****
TL 0.000 0036          0.001
-----
AN= 0.000   STD.DEV.=          COEF.VAR.= 70.71 %
*****

```

OBRITONS-2  
7-18-90  
TRAY  
HR

000813



VERSAR, INC.  
MERCURY ANALYSIS SHEET

Date: 06/28/90

Code-Batch: OBRITOWN-2R	Ctrl No.:	2954	Method Code:	HGW
Code-Batch: -----	Ctrl No.:	-----	Method Code:	-----
Code-Batch: -----	Ctrl No.:	-----	Method Code:	-----
Code-Batch: -----	Ctrl No.:	-----	Method Code:	-----
Code-Batch: -----	Ctrl No.:	-----	Method Code:	-----
Code-Batch: -----	Ctrl No.:	-----	Method Code:	-----

Calib Time: 13:48      Analyst: JH      Matrix: H2O

-----  
INSTRUMENT SPECIFICS

Inst. No.: 2      Air Flow: 3 LPM      Wavelength: 254.7 NM  
Lamp Type: HCL

-----  
STANDARD INFORMATION

Initial Calibration Verification (ICV):  
Source: EPA-LV      Prep Date: 06/28/90      Conc. (ug/L): 5

Continuing Calibration Verification (CCV):  
Source: NBS      Prep Date: 06/28/90      Conc. (ug/L): 5

Laboratory Control Solution (LCS):  
Source: EPA-LV      Prep Date: 06/28/90      Conc. (ug/L):

Pre-digestion spike (S):  
Source: INORG. VENTS.      Prep Date: 06/28/90      Conc. (ug/L): 2

Post-digestion spike (P):  
Source: INORG. VENTS.      Prep Date: 06/28/90      Conc. (ug/L):

Calibration:	Signal:		
Stds (ug/L):	Peak Ht.	Name of file:	HG2954R On disk: 1
S0 0	1	Name of file:	----- On disk: -----
S1 0.5	11	Name of file:	----- On disk: -----
S2 2	39	Name of file:	----- On disk: -----
S3 5	87	Name of file:	----- On disk: -----
S4 10	175	Name of file:	----- On disk: -----

Correlation: 0.99978

No.	Time	Sample/ EPA ID No.	Signal	Unadj. Conc.	D.F.	True Value	Comments & % Rec
1	13:53	ICV0489	85	4.798550	1	5	96.0
2#	13:54	ICB	2	-0.01304	1		
3#	13:54	PBW	2	-0.01304	1		

# The initial calibration blank and the preparation blank are the same.

000814  
00104

No.	Time	Sample/ EPA ID No.	Signal	Unadj. Conc.	D.F.	True Value	% Rec
1	13:55	LCSM	38	2.073913	1	2	103.7
2	13:56	24465	1	-0.07101	1		
3	13:57	24465D	1	-0.07101	1		
4	13:58	24465S	37	2.015942	1	2	100.8
5	13:59	24466	2	-0.01304	1		
6	14:00	24467	3	0.044927	1		
7	14:01	24468	2	-0.01304	1		
8	14:02	24469	1	-0.07101	1		
9	14:03	24470	3	0.044927	1		
10	14:04	24471	2	<del>0.01304</del>	1		
11	14:05	CCV-1	88	4.972463	1	5	99.4
12	14:06	CCB-1	2	-0.01304	1		
13	14:07	24472	2	-0.01304	1		
14	14:08	24473	2	-0.01304	1		
15	14:09	24474	2	-0.01304	1		
16	14:10	24475	3	0.044927	1		
17	14:11	CCV-2	89	5.030434	1	5	100.6
18	14:12	CCB-2	2	-0.01304	1		
19	14:13			-0.12898	1		
20	14:14			-0.12898	1		
21	14:15			-0.12898	1		
22	14:16			-0.12898	1		
23	14:17			-0.12898	1		
24	14:18			-0.12898	1		
25	14:19			-0.12898	1		
26	14:20			-0.12898	1		
27	14:21			-0.12898	1		
28	14:22			-0.12898	1		
29	14:23			-0.12898	1		
30	14:24			-0.12898	1		
31	14:25			-0.12898	1		
32	14:26			-0.12898	1		
33	14:27			-0.12898	1		
34	14:28			-0.12898	1		
35	14:29			-0.12898	1		
36	14:30			-0.12898	1		
37	14:31			-0.12898	1		
38	14:32			-0.12898	1		
39	14:33			-0.12898	1		
40	14:34			-0.12898	1		
41	14:35			-0.12898	1		
42	14:36			-0.12898	1		
43	14:37			-0.12898	1		
44	14:38			-0.12898	1		
45	14:39			-0.12898	1		
46	14:40			-0.12898	1		
47	14:41			-0.12898	1		
48	14:42			-0.12898	1		
49	14:43			-0.12898	1		
50	14:44			-0.12898	1		

*Return ←*  
*exceeds*  
*10 burn*  
*rule*  
*PKC*  
*7.2490*

000815 105

444211

244651

LCM/38

PBW/20

103/2

10V/85

10 ppb/175

0.5 ppb/87

0.1 ppb/390

0.5 ppb/11

0 ppb/1

0 ppb/1

13 50

13 49

13 48

$r = 0.9995$

90100

00000000

JH

LDR-01

ARITAIN-2R

HGW

Hg analysis

CCB-2/2

14-13

CCV02

CCV2/89

14-12

24475/3

24474/2

24473/2

24472/2

CCB7/2

14-06

CCV01

CCV1/89

14-05

24471/2

24470/3

24469/2

24468/2

24467/3

24466/2

24465/3

24465/37

00107

00000

VERSAR, INC.  
MERCURY ANALYSIS SHEET

Date: 07/02/90

Code-Batch: NUSWES-11	Ctrl No.:	2691	Method Code:	HGW
Code-Batch: SAICBDAT-7	Ctrl No.:	2992	Method Code:	HGW
Code-Batch: <u>QBRTOWN-2R</u>	Ctrl No.:	2954	Method Code:	HGW
Code-Batch: VERSENV1-1	Ctrl No.:	3003	Method Code:	HGWC
Code-Batch: -----	Ctrl No.:	-----	Method Code:	-----
Code-Batch: -----	Ctrl No.:	-----	Method Code:	-----

Calib Time: 14:22      Analyst: JH      Matrix: H2O

INSTRUMENT SPECIFICS

Inst. No.:	2	Air Flow:	3 LPM	Wavelength:	254.7 NM
Lamp Current:	6 MAS	Lamp Type:	HCL		

STANDARD INFORMATION

Initial Calibration Verification (ICV):  
 Source: EPA-LV      Prep Date: 07/02/90      Conc. (ug/L): 5

Continuing Calibration Verification (CCV):  
 Source: NBS      Prep Date: 07/02/90      Conc. (ug/L): 5

Laboratory Control Solution (LCS):  
 Source: EPA-LV      Prep Date: 07/02/90      Conc. (ug/L): 5

Pre-digestion spike (S):  
 Source: INORG. VENTS.      Prep Date: 07/02/90      Conc. (ug/L): HGW-2, HGWC-1

Post-digestion spike (P):  
 Source: INORG. VENTS.      Prep Date: 07/02/90      Conc. (ug/L):

Calibration:	Signal:		
Stds (ug/L):	Peak Ht.	Disk:	File Name:
S0      0	2	Disk: 1	File Name: HG2691
S1      0.5	11	Disk: 1	File Name: HG2992
S2      2	40	Disk: 1	File Name: HG2954
S3      5	99	Disk: -----	File Name: -----
S4      10	189	Disk: -----	File Name: -----

Correlation: 0.9998

No.	Time	Sample/ EPA ID No.	Signal	Unadj. Conc.	D.F.	True Value	Comments & % Rec
1	14:27	ICV0489	92	14.767345	1	5	95.3
2#	14:29	ICB	3	0.028112	1		*
3#	14:29	PBW	3	0.028112	1		*

# The initial calibration blank (ICB) and the preparation blank (PB) are the same analysis.

**000818**  
00108

CODE-BATCH:  
ANALYST:

OBRITOWN-2R  
JH

CTRL No. : 2954  
DATE: 07/02/90

PAGE TWO

No.	Time	Sample/ EPA ID No.	Signal	Unadj. Conc.	D.F.	True Value	% Rec
1	15:23	24471	3	0.028112	1		*
2	15:25	CCVC1	85	4.394596	1	5	87.9
3	15:27	CCB1	2	-0.02513	1		*
4	15:29			-0.13163	1		*
5	15:31			-0.13163	1		*
6	15:33			-0.13163	1		*
7	15:35			-0.13163	1		*
8	15:37			-0.13163	1		*
9	15:39			-0.13163	1		*
10	15:41			-0.13163	1		*
11	15:43			-0.13163	1		*
12	15:45			-0.13163	1		*
13	15:47			-0.13163	1		*
14	15:49			-0.13163	1		*
15	15:51			-0.13163	1		*
16	15:53			-0.13163	1		*
17	15:55			-0.13163	1		*
18	15:57			-0.13163	1		*
19	15:59			-0.13163	1		*
20	16:01			-0.13163	1		*
21	16:03			-0.13163	1		*
22	16:05			-0.13163	1		*
23	16:07			-0.13163	1		*
24	16:09			-0.13163	1		*
25	16:11			-0.13163	1		*
26	16:13			-0.13163	1		*
27	16:15			-0.13163	1		*
28	16:17			-0.13163	1		*
29	16:19			-0.13163	1		*
30	16:21			-0.13163	1		*
31	16:23			-0.13163	1		*
32	16:25			-0.13163	1		*
33	16:27			-0.13163	1		*
34	16:29			-0.13163	1		*
35	16:31			-0.13163	1		*
36	16:33			-0.13163	1		*
37	16:35			-0.13163	1		*
38	16:37			-0.13163	1		*
39	16:39			-0.13163	1		*
40	16:41			-0.13163	1		*
41	16:43			-0.13163	1		*
42	16:45			-0.13163	1		*
43	16:47			-0.13163	1		*
44	16:49			-0.13163	1		*
45	16:51			-0.13163	1		*
46	16:53			-0.13163	1		*
47	16:55			-0.13163	1		*
48	16:57			-0.13163	1		*

000819 07/09

10.1 CV 1/92

~~14-25~~ JH 14-27

10.10 ppb/189  $r = 0.9998$

5.0 ppb/99 14-27 JH

2.0 ppb/140 14-25 JH

0.5 ppb/11 14-24 JH

0 ppb/2 14-22 JH 14-22

NUS WES-11 HGW

SAICBAT-7 HGW

WATERBURY HGW/C

Hg Analysis

7-5-92



CCBS/2 = 15-27

2 CCVES/85 15-25

24471/3

OBRIEN-DR CCB4/PBW/3 15-21

CCVE4/87 15-19

25271/3

25271/3

25271/3

CCSM/20

VERSONI/1 CCB3/PBW/3

VERSAR, INC.  
METALS LABORATORY  
DIGESTION LOG

Code-Batch: OBRITOWN-2

Date: 7/5/90 Page 3 of 4

Control No.: 2054

Method Code: DHW3 / DHW4 / (DIW3) / I  
Reference: NCAWW, MAR. 1983  
Digestion Type: HGA/ICP Method: 200

Sample/EPA ID Number	Mtrx.	Init. W/V	Final Vol.	Description *		F
				Before	After	
PBW	#20	50ml	50ml	clear, colorless	clear, colorless	-
LCSM						
24465				brown, cloudy	yellow, clear	<
24465(b)						
24465(s)						
24466				clear, colorless	clear, colorless	
24467						
24468						
24469						
24470						
24471						
24472				grey, cloudy	yellow, clear	
24473				clear, colorless	clear, colorless	
24474						
24475				brown, cloudy		

Comments: \_\_\_\_\_

\* Description of colors: red, blue, yellow, green, orange, violet, white, colorless, brown, grey, black.  
\* Description of clarity: clear, cloudy, opaque.  
\* Description of textures: fine, medium, coarse.  
\* Description of artifacts: yes or no and describe.

000822  
00112

Preparer TM

53

VERSAR, INC.  
METALS LABORATORY  
SPIKE LOG

Code-Batch: OBRITOWN-2  
Control No.: 2954

Date: 7/5/90  
Method code: DWR

\*\*\* CLP SPIKING \*\*\*

HGA WATER: spike = 0.25ml of HGA spiking solution / 50ml

SPIKING SOLUTION: 8ppm As - 4ppm Pb - 10ppm Tl - 1ppm Cd - 2ppm Se - 200ppm Y Sol'n prep date: \_\_\_\_\_

ICP WATER: spike = 2.5ml of ICP water spiking solution / 50ml  
0.25ml 100ppm Sb & 10ppm Ag / 50ml  
0.1ml 100ppm Cr / 50ml

SPIKING SOLUTION: 5ppm Cu - 40 ppm Ba, Al, As, Se, Tl - 20ppm Fe - 10ppm Mn, Ni, Zn, Co, Pb, V - 1ppm Be, Cd  
Sol'n prep date: \_\_\_\_\_ Sb prep: \_\_\_\_\_ Ag prep: \_\_\_\_\_ Cr prep: \_\_\_\_\_

HGA SOIL: spike = 1ml of HGA spiking solution / 200ml

HGA SPIKING SOLUTION: 8ppm As - 4ppm Pb - 10ppm Tl - 1ppm Cd - 2ppm Se - 200ppm Y Sol'n prep date: \_\_\_\_\_

ICP SOIL: spike = 10ml of ICP Soil Spike Solution / 200ml  
1ml 100ppm Sb & 10ppm Ag / 200ml  
0.4ml 100ppm Cr / 200ml

ICP SPIKING SOLUTION: 40ppm Ba, As, Se, Tl, - 10ppm Co, Pb, Mn, Ni, V, Zn - 5ppm Cu - 1ppm Be, Cd  
Sol'n prep date: \_\_\_\_\_ Sb prep: \_\_\_\_\_ Ag prep: \_\_\_\_\_ Cr prep: \_\_\_\_\_

\*\*\* NON-CLP SPIKING \*\*\*

HGA SPIKE = \_\_\_\_\_ ml of HGA NON-CLP spiking solution / \_\_\_\_\_ ml

SPIKING SOLUTION: 10 ppm As, Se, Tl, Pb, 200 ppm Y Sol'n prep date: \_\_\_\_\_

P SPIKE = 2.5 ml of Solution #1 / 50 ml

SPIKING SOLUTION #1: 40 ppm Ba, Be, Cd, Co, Li, Mo, Sr, V - 80 ppm Cu, Pb, Mn, Ni, Se, Tl - 200 ppm Si - 328 ppm Na  
Sol'n prep date: 7/3/90

P SPIKE = 2.5 ml of Solution #2 / 50 ml

SPIKING SOLUTION #2: 40 ppm B, Cr, Y - 80 ppm As, Sb, Sn, Tl, Zn - 400 ppm Al, Ca, Fe, K, Mg, Na  
Sol'n prep date: 7/2/90

ICP SPIKE = 2.5 ml of Solution #3 / 50 ml

SPIKING SOLUTION #3: 40 ppm Ag Sol'n prep date: 6/6/90

COMMENTS: \_\_\_\_\_

Preparer: TM

Reviewer: SB

000823  
00113

VERSAR, INC.  
METALS LABORATORY  
DIGESTION LOG

Code-Batch: OBRITOWN-2  
~~LAD-506-68-1m~~

Date: 7/5/90  
Method Code: DHW3 / DHW4 / DIW3 / DI  
Reference: MCAWW, MAR. 1983  
Digestion Type: HGA/ICP Method: 200.1

Control No.: 3023 in 2954

Sample/EPA ID Number	Mtrx.	Init. W/V	Final Vol.	Description *		pH
				Before	After	
PBW	H <sub>2</sub> O	50ml	50ml	clear, colorless	clear, colorless	-
hCSMA						-
24465				brown, cloudy		<6
24465(1)						
24465(s)						
24466				clear, colorless		
24467						
24468						
24469						
24470						
24471						
24472				green, cloudy		
24473				clear, colorless		
24474						
24475				brown, cloudy		

Comments: \_\_\_\_\_

\* Description of colors: red, blue, yellow, green, orange, violet, white, colorless, brown, grey, black.  
\* Description of clarity: clear, cloudy, opaque.  
\* Description of textures: fine, medium, coarse.  
\* Description of artifacts: yes or no and describe.

000824

Preparer Th

Reviewer SPB

nn

VERSAR, INC.  
METALS LABORATORY  
SPIKE LOG

Page 2 of 4

Code-Batch: OBRITOWN-2  
Control No.: 2854

Date: 7/5/90  
Method code: DHW3

\*\*\* CLP SPIKING \*\*\*

HGA WATER: spike = 0.25ml of HGA spiking solution / 50ml

HGA SPIKING SOLUTION: 8ppm As - 4ppm Pb - 10ppm Tl - 1ppm Cd - 2ppm Se - 200ppm Y Sol'n prep date: \_\_\_\_\_

ICP WATER: spike = 2.5ml of ICP water spiking solution / 50ml  
0.25ml 100ppm Sb & 10ppm Ag / 50ml  
0.1ml 100ppm Cr / 50ml

ICP SPIKING SOLUTION: 5ppm Cu - 40 ppm Ba, Al, As, Se, Tl - 20ppm Fe - 10ppm Mn, Ni, Zn, Co, Pb, V - 1ppm Be, Cd  
Sol'n prep date: \_\_\_\_\_ Sb prep: \_\_\_\_\_ Ag prep: \_\_\_\_\_ Cr prep: \_\_\_\_\_

HGA SOIL: spike = 1ml of HGA spiking solution / 200ml

HGA SPIKING SOLUTION: 8ppm As - 4ppm Pb - 10ppm Tl - 1ppm Cd - 2ppm Se - 200ppm Y Sol'n prep date: \_\_\_\_\_

ICP SOIL: spike = 10ml of ICP Soil Spike Solution / 200ml  
1ml 100ppm Sb & 10ppm Ag / 200ml  
0.4ml 100ppm Cr / 200ml

ICP SPIKING SOLUTION: 40ppm Ba, As, Se, Tl, - 10ppm Co, Pb, Mn, Ni, V, Zn - 5ppm Cu - 1ppm Be, Cd  
Sol'n prep date: \_\_\_\_\_ Sb prep: \_\_\_\_\_ Ag prep: \_\_\_\_\_ Cr prep: \_\_\_\_\_

\*\*\* NON-CLP SPIKING \*\*\*

HGA SPIKE = 25 ml of HGA NON-CLP spiking solution / 50 ml

SPIKING SOLUTION: 10 ppm As, Se, Tl, Pb, 200 ppm Y Sol'n prep date: 7/2/90

~~ICP SPIKE = \_\_\_\_\_ ml of Solution #1 / \_\_\_\_\_ ml  
SPIKING SOLUTION #1: 40 ppm Ba, Be, Cd, Co, Li, Mo, Sr, V - 80 ppm Cu, Pb, Mn, Ni, Se, Tl - 200 ppm Si - 328 ppm Na  
Sol'n prep date: \_\_\_\_\_~~

~~ICP SPIKE = \_\_\_\_\_ ml of Solution #2 / \_\_\_\_\_ ml  
SPIKING SOLUTION #2: 40 ppm B, Cr, Y - 80 ppm Ag, Sb, Sn, Ti, Zn - 400 ppm Al, Ca, Fe, K, Mg, Na  
Sol'n prep date: \_\_\_\_\_~~

~~ICP SPIKE = \_\_\_\_\_ ml of Solution #3 / \_\_\_\_\_ ml  
SPIKING SOLUTION #3: 40 ppm Ag Sol'n prep date: \_\_\_\_\_~~

COMMENTS: \_\_\_\_\_

00115

Preparer TM

Reviewer SB 000825

VERSAR, INC.  
METALS LABORATORY  
MERCURY DIGESTION LOG

Page 3 of 3

Project-Batch: OBRITOWN-2R  
Control No.: 2954  
No. of Samples: 11

Date: 6-28-90  
Method Code: (HGW) or HGS  
Reference: SW846 3rd Ed  
Method No: (7470) or 7471

Sample / EPA ID Number	Matrix	Initial Wt./Vol.	Final Vol.	Comments
PBW	H <sub>2</sub> O	100 ml	100 ml	
LCSM				
24465				
24465D				
24465S				
24466				
24467				
24468				
4469				
24470				
24471				
24472				
24473				
24474				
24475	✓	✓	✓	

SPIKE = 2 ml x 0.1ppm Hg / 100ml = 2 ppb.  
CCV = 0.50 ml x 1.0ppm Hg / 100ml = 5.0 ppb.  
CV/LCS = 1 ml x ICV #5 / 100ml = 5.0 ppb. LCS Series No.: 0689

STANDARD source: Inorganic/ventures Prep Date: 6-28-90 Prep Time: 10:00

0.5ppb = 5ml x 0.01ppm / 100ml.  
2.0ppb = 2ml x 0.1ppm / 100ml.  
5.0ppb = 5ml x 0.1ppm / 100ml.  
10.0ppb = 10ml x 0.1ppm / 100ml.

00116  
000826

Preparer JH

Reviewer JK





Headquarters: 6850 Versar Center • Springfield, Virginia 22151 • 703/750-3000

Offices: Phoenix, AZ • San Francisco, Sacramento, CA • Greeley, Grand Junction, CO • Atlanta, GA • Chicago, IL • Columbia, Germantown, Gaithersburg, MD • Binghamton, NY • Pottstown, PA • Provo, Ogden, UT • Springfield, Sterling, Chantilly, VA • Riverton, WY



VOLATILE ANALYSIS  
DATA SUMMARY PACKAGE

CLIENT : OBRIEN AND GERE  
SITE : TOWN OF CONKLIN LF  
PROJECT: 420.66.0 B#1  
CONTROL: 2941  
DATE : 07/19/90

**VEP'S** INC.  
ENVIRONMENTAL RISK MANAGEMENT

000829

VOLATILE ANALYSIS  
DATA SUMMARY PACKAGE

CLIENT : OBRIEN AND GERE  
SITE : TOWN OF CONKLIN LF  
PROJECT: 420.66.0 B#1  
CONTROL: 2941  
DATE : 07/19/90

July 19, 1990

Narrative  
O'BRIEN & GERE - TOWN OF CONKLIN LF  
Volatile Organic Analysis - NYS DEC 1989 ASP  
Versar Project 420.66 - Batch 1/Control 2941

This report contains the data from the analysis of twelve water samples which were received at Versar on June 21, 1990. The samples listed below were analyzed for volatile organic compounds following NY DEP 1989 ASP procedures using purge and trap techniques with GC/MS instrumentation.

SAMPLE LIST

- |   |            |
|---|------------|
| 1 | 7          |
| 2 | 8          |
| 3 | 9          |
| 4 | 10         |
| 5 | 11         |
| 6 | TRIP BLANK |

////////////////////////////////////

GC/MS instrument calibrations using BFB met method requirements for volatile organic analyses. Initial analyses for volatile organic compounds were performed within specified sample holding times and occurred during the period that followed daily instrument calibration. SPCC and CCC linearity and percent deviation criteria were met for the initial standard calibration curves and continuing calibration standards.

Volatile organic surrogate compounds spiked into the water samples met recovery criteria with the exception of 1,2-dichloroethane-d4 in samples 7, 8, 9, and 10. Following method protocol, each sample was reanalyzed (RE). Both sets of data are included in this report. Internal standard area abundance values and associated relative retention times met specified criteria for all volatile organic analyses.

One set of volatile matrix spike and matrix spike duplicate (MS/MSD) QC analyses were performed for the water matrix. All recovery and relative percent difference values met specified QC limits.

Few volatile organic compounds were detected in the water samples. Sample 4 contained xylene and chlorinated solvent target analytes. Mass spectra of target analytes that did not meet all mass spectral identification criteria have been flagged with an "X". Coeluting ions not characteristic of the compound or missing ions result in the use of this flag. Nontarget compounds have been tentatively identified using the EPA/NBS Mass Spectral Database Library. The samples did not require dilution prior to instrumental analysis.

Narrative - Page 2  
O'Brien & Gere  
Versar 420.66 - Control 2941

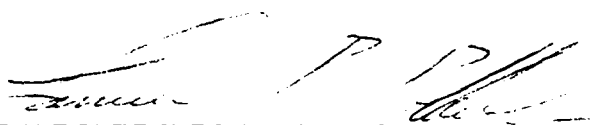
The required holding blank was inadvertently not prepared at time of sample receipt and therefore, no holding blank analysis is included in this report.


Additional data qualifier flags used on the individual sample summary pages are defined in the listing which immediately follows this case narrative.

Please contact Janet Beckman, Laboratory Project Manager, should you have any questions or require additional information pertaining to the analysis of these samples for volatile organic compounds.

Data Release Approved By:

Narrative Reviewed By:

  
-----  
Lawrence P. Pollack  
GC/MS Quality Assurance Manager  
Laboratory Operations

  
-----  
Linda E. Bock  
GC/MS Data Quality Manager

SAMPLE IDENTIFICATION AND  
ANALYTICAL REQUIREMENTS SUMMARY

Customer Sample Code	Laboratory Sample Code	*VOA GC/MS	*BNA GC/MS	*PEST PCB	*METALS	*OTHER
1	24271	X				
10	24280	X				
11	24281	X				
2	24272	X				
3	24273	X				
4	24274	X				
5	24275	X				
6	24276	X				
7	24277	X				
8	24278	X				
9	24279	X				
TRIP BLANK	24284	X				

Comments: Analysis by NYSDEC 89-ASP.

000833

SAMPLE PREPARATION AND ANALYSIS SUMMARY  
VOA  
ANALYSES

Laboratory Sample ID	Matrix	Date Collected	Date Rec'd At Lab	Low Level Medium Level	Date Analyzed
24271	HOH	20-JUN-90	21-JUN-90	Low	6/27/90
24272	HOH	20-JUN-90	21-JUN-90	Low	6/27/90
24273	HOH	20-JUN-90	21-JUN-90	Low	6/28/90
24274	HOH	20-JUN-90	21-JUN-90	Low	6/27/90
24275	HOH	20-JUN-90	21-JUN-90	Low	6/27/90
24276	HOH	20-JUN-90	21-JUN-90	Low	6/27/90
24277	HOH	20-JUN-90	21-JUN-90	Low	6/28/90
24278	HOH	20-JUN-90	21-JUN-90	Low	6/28/90
24279	HOH	20-JUN-90	21-JUN-90	Low	6/28/90
24280	HOH	20-JUN-90	21-JUN-90	Low	6/28/90
24281	HOH	20-JUN-90	21-JUN-90	Low	6/28/90
24284	HOH	20-JUN-90	21-JUN-90	Low	6/28/90

PROJECT NO. 330.00.130		PROJECT NAME TOWN OF CONKLIN LINDFILL				PARAMETERS										INDUSTRIAL HYGIENE SAMPLE				
SAMPLERS: (Signature) <i>[Signature]</i>					SAMPLERS: (Printed) JAMES A. MOORE	NO. OF CONTAINERS V29 89 ASD										REMARKS				
FIELD SAMPLE NUMBER	DATE	TIME	COMP.	GRAB	STATION LOCATION															
1	6/20/90	8:30		X	MW-1	2	X													
2	11	0915		X	MW-12	2	X													
3	11	0920		X	EQUIPMENT BLANK	2	X													
4	11	0945		X	MW-11	2	X													
5	11	1015		X	MW-4	2	X													
6	11	1050		X	MW-38D	2	X													
7	11	1120		X	MW-38S	2	X													
8	11	1230		X	MW-10	2	X													
9	11	1255		X	MW-9	2	X													
10	11	1357		X	MW-8	2	X													
MS	11	0945		X	MW-11	2	X													
MSD	11	0945		X	MW-11	2	X													
Relinquished by: (Signature) <i>[Signature]</i>		Date / Time 6/20/90		Received by: (Signature)		Relinquished by: (Signature)		Date / Time		Received by: (Signature)										
(Printed) JAMES A. MOORE				(Printed)		(Printed)				(Printed)										
Relinquished by: (Signature)		Date / Time		Received for Laboratory by: (Signature)		Date / Time		Remarks												
(Printed)				<i>[Signature]</i>		6/21/90 0900														

000835  
Y  
N  
100001

PROJECT NO. 3360.001.130		PROJECT NAME TOWN OF CONKLIN LANDFILL				PARAMETERS						INDUSTRIAL HYGIENE SAMPLE		Y N		
SAMPLERS: (Signature) <i>[Signature]</i>					(Printed) JAMES A. MOORE					REMARKS						000836
FIELD SAMPLE NUMBER	DATE	TIME	COMP.	GRAB	STATION LOCATION		NO. OF CONTAINERS									
11	6/20/90	1445		X	MW-5		2	X							100001	
Relinquished by: (Signature) <i>[Signature]</i>		Date / Time 6/20/90		Received by: (Signature)			Relinquished by: (Signature)		Date / Time		Received by: (Signature)					
(Printed) JAMES A. MOORE				(Printed)			(Printed)				(Printed)					
Relinquished by: (Signature)		Date / Time		Received for Laboratory by: (Signature)			Date / Time		Remarks							
(Printed)				(Printed) <i>[Signature]</i>			6/21/90 0940									

Distribution: Or Plus One Accompanies Shipment (white and yellow); Copy to Coordinator Field (pink).



## Data Qualifier Flags

- J** For Target Compounds: This flag is used when mass spectral data indicates the presence of a compound but the result is less than the specified detection limit but still greater than zero.
- For Non Target Compounds: This flag indicates that the concentration is an estimated value, assuming a 1 to 1 response with the internal standard.
- B** This flag is used when the analyte is found in the blank as well as in the sample. It indicates possible/probable contamination and warns the data user to take appropriate action.
- u** This flag states that the compound was analyzed for but was not detected. The number is the minimum attainable detection limit for the sample.
- X or T** This flag states that the mass spectrum does not meet EPA CLP criteria for confirmation, but compound presence is strongly suspected.
- E** This flag is used to indicate that the quantitation of the analyte is outside the linear calibration of the curve and that dilution was required in order to properly quantitate.
- D** This flag is used to indicate the value for the target analyte was calculated from a dilution (see "E" flag above).
- Y** This flag is used when a matrix spike compound is also confirmed present in the unspiked sample.

Flags excerpted from and established by the  
US EPA Contract Lab Program (CLP) protocol.

2A  
WATER VOLATILE SURROGATE RECOVERY

Lab Name: VERSAR INC. Contract: \_\_\_\_\_

Lab Code: VERSAR Case No.: 2941 SAS No.: \_\_\_\_\_ SDG No.: 1

	EPA SAMPLE NO.	S1 (TOL) #	S2 (BFB) #	S3 (DCE) #	OTHER	TOT OUT
01	1	96	98	89	0	0
02	10	93	94	71 *	0	1
03	10RE	102	100	75 *	0	1
04	11	103	94	99	0	0
05	2	94	96	87	0	0
06	3	96	96	78	0	0
07	4	91	94	83	0	0
08	5	89	94	81	0	0
09	6	90	93	80	0	0
10	7	94	93	75 *	0	1
11	7RE	99	100	77	0	0
12	8	95	94	74 *	0	1
13	8RE	101	102	77	0	0
14	9	95	93	73 *	0	1
15	9RE	104	104	76	0	0
16	TRIP_BLK	99	92	99	0	0
17	4MS	95	96	77	0	0
18	4MSD	94	95	77	0	0
19	VBLK84	97	96	95	0	0
20	VBLK01	98	97	83	0	0
21	VBLK36	100	91	94	0	0
22	VBLK23	100	99	82	0	0

QC LIMITS

S1 (TOL) = Toluene-d8 ( 88-110)  
 S2 (BFB) = Bromofluorobenzene ( 86-115)  
 S3 (DCE) = 1,2-Dichloroethane-d4 ( 76-114)

# Column to be used to flag recovery values

\* Values outside of contract required QC limits

D Surrogates diluted out

## WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: VERSAR INC. Contract: \_\_\_\_\_Lab Code: VERSAR Case No.: 2941 SAS No.: \_\_\_\_\_ SDG No.: 1Matrix Spike - EPA Sample No.: 4

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC.
1,1-Dichloroethene	50.0	0	45.3	91	61-145
Trichloroethene	50.0	0	53.4	107	71-120
Benzene	50.0	0	44.0	88	76-127
Toluene	50.0	0	46.5	93	76-125
Chlorobenzene	50.0	0	50.0	100	75-130

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	REC.
1,1-Dichloroethene	50.0	41.9	84	8	14	61-145
Trichloroethene	50.0	51.4	103	4	14	71-120
Benzene	50.0	42.2	84	5	11	76-127
Toluene	50.0	44.0	88	6	13	76-125
Chlorobenzene	50.0	48.0	96	4	13	75-130

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

\* Values outside of QC limits

RPD: 0 out of 5 outside limitsSpike Recovery: 0 out of 10 outside limitsCOMMENTS: CLP, OBRITOWN, 2941, 4, L, W, 24274, V, , 420.66, 1, 5ML,  
INSTW : SP1000COLUMN : 45C (3MIN) TO 225C @8C/MIN

C00829

4A  
VOLATILE METHOD BLANK SUMMARY

Lab Name: VERSAR INC. Contract: \_\_\_\_\_  
Lab Code: VERSAR Case No.: 2941 SAS No.: \_\_\_\_\_ SDG No.: 1  
Lab File ID: W2784 Lab Sample ID: VBLK84  
Date Analyzed: 06/27/90 Time Analyzed: 1628  
Matrix: (soil/water) WATER Level: (low/med) LOW  
Instrument ID: W

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	1	24271	W2785	1744
02	2	24272	W2786	1826
03	4	24274	W2788	1948
04	5	24275	W2789	2030
05	6	24276	W2790	2111

COMMENTS: CLP,,,VBLK84,L,W,VBLK84,V,BLANK,,,5ML,  
INSTW : SP1000COLUMN : 45C (3MIN) TO 225C @8C/MIN

4A  
VOLATILE METHOD BLANK SUMMARY

Lab Name: VERSAR INC. Contract: \_\_\_\_\_  
 Lab Code: VERSAR Case No.: 2941 SAS No.: \_\_\_\_\_ SDG No.: 1  
 Lab File ID: W2801 Lab Sample ID: VBLK01  
 Date Analyzed: 06/28/90 Time Analyzed: 1406  
 Matrix: (soil/water) WATER Level: (low/med) LOW  
 Instrument ID: W

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	10	24280	W2808	1920
02	3	24273	W2802	1505
03	7	24277	W2805	1712
04	8	24278	W2806	1755
05	9	24279	W2807	1837
06	4MS	29274MS	W2803	1547
07	4MSD	29274MSD	W2804	1630

COMMENTS: CLP,,,VBLK01,L,W,VBLK01,V,BLANK,,,5ML,  
 INSTW : SP1000COLUMN : 45C (3MIN) TO 225C @8C/MIN

4A  
VOLATILE METHOD BLANK SUMMARY

Lab Name: VERSAR INC. Contract: \_\_\_\_\_  
L Code: VERSAR Case No.: 2941 SAS No.: \_\_\_\_\_ SDG No.: 1  
Lab File ID: W2823 Lab Sample ID: VBLK23  
Date Analyzed: 06/29/90 Time Analyzed: 1626  
Matrix: (soil/water) WATER Level: (low/med) LOW  
Instrument ID: W

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	10RE	24280	W2827	1944
02	7RE	24277RE	W2824	1736
03	8RE	24278	W2825	1819
04	9RE	24279	W2826	1901

COMMENTS: CLP,,,VBLK23,L,W,VBLK23,V,BLANK,,,5ML,  
INSTW : SP1000COLUMN : 45C (3MIN) TO 225C @8C/MIN

4A  
VOLATILE METHOD BLANK SUMMARY

Lab Name: VERSAR INC. Contract: \_\_\_\_\_  
Lab Code: VERSAR Case No.: 2941 SAS No.: \_\_\_\_\_ SDG No.: 1  
Lab File ID: Y2136 Lab Sample ID: VBLK36  
Date Analyzed: 06/28/90 Time Analyzed: 1747  
Matrix: (soil/water) WATER Level: (low/med) LOW  
Instrument ID: Y

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	11	24281	Y2138	1854
02	TRIP_BLK	24284	Y2137	1823

COMMENTS: CLP,,,VBLK36,L,W,VBLK36,V,,,5ML  
INST Y:RTXVOA 10C(1MIN)-80C/20C/MIN-140C/6C/MIN-180C/5C/MIN

000843

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1

Name: VERSAR INC. Contract: \_\_\_\_\_

Lab Code: VERSAR Case No.: 2941 SAS No.: \_\_\_\_\_ SDG No.: 1

Matrix: (soil/water) WATER Lab Sample ID: 24271

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: W2785

Level: (low/med) LOW Date Received: 06/21/90

Moisture: not dec. \_\_\_\_\_ Date Analyzed: 06/27/90

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

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

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

000844



1E  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

1

Name: VERSAR INC. Contract: \_\_\_\_\_  
Lab Code: VERSAR Case No.: 2941 SAS No.: \_\_\_\_\_ SDG No.: 1  
Matrix: (soil/water) WATER Lab Sample ID: 24271  
Sample wt/vol: 5.0 (g/mL) ML Lab File ID: W2785  
Level: (low/med) LOW Date Received: 06/21/90  
Moisture: not dec. \_\_\_\_\_ Date Analyzed: 06/27/90  
Column (pack/cap) PACK Dilution Factor: 1.0

Number TICs found: 1

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	3.05	5.0	J

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

2

Name: VERSAR INC. Contract: \_\_\_\_\_

Lab Code: VERSAR Case No.: 2941 SAS No.: \_\_\_\_\_ SDG No.: 1

Matrix: (soil/water) WATER Lab Sample ID: 24272

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: W2786

Level: (low/med) LOW Date Received: 06/21/90

Moisture: not dec. \_\_\_\_\_ Date Analyzed: 06/27/90

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

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

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

1E  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

2

Name: VERSAR INC. Contract: \_\_\_\_\_

Lab Code: VERSAR Case No.: 2941 SAS No.: \_\_\_\_\_ SDG No.: 1

Matrix: (soil/water) WATER Lab Sample ID: 24272

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: W2786

Level: (low/med) LOW Date Received: 06/21/90

Moisture: not dec. \_\_\_\_\_ Date Analyzed: 06/27/90

Column (pack/cap) PACK Dilution Factor: 1.0

Number TICs found: 1 CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	2.75	11	J

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

3

Name: VERSAR INC. Contract: \_\_\_\_\_

Lab Code: VERSAR Case No.: 2941 SAS No.: \_\_\_\_\_ SDG No.: 1

Matrix: (soil/water) WATER Lab Sample ID: 24273

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: W2802

Level: (low/med) LOW Date Received: 06/21/90

Moisture: not dec. \_\_\_\_\_ Date Analyzed: 06/28/90

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

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

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

1E  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

3

Name: VERSAR INC. Contract: \_\_\_\_\_  
Lab Code: VERSAR Case No.: 2941 SAS No.: \_\_\_\_\_ SDG No.: 1  
Matrix: (soil/water) WATER Lab Sample ID: 24273  
Sample wt/vol: 5.0 (g/mL) ML Lab File ID: W2802  
Level: (low/med) LOW Date Received: 06/21/90  
Moisture: not dec. \_\_\_\_\_ Date Analyzed: 06/28/90  
Column (pack/cap) PACK Dilution Factor: 1.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

4

Name: VERSAR INC. Contract: \_\_\_\_\_

Lab Code: VERSAR Case No.: 2941 SAS No.: \_\_\_\_\_ SDG No.: 1

Matrix: (soil/water) WATER Lab Sample ID: 24274

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: W2788

Level: (low/med) LOW Date Received: 06/21/90

Moisture: not dec. \_\_\_\_\_ Date Analyzed: 06/27/90

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

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

CAS NO.                      COMPOUND                      Q

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u>	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	68	
75-09-2	Methylene chloride	5	U
67-64-1	Acetone	10	U
75-15-0	Carbon disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	4	JX
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon tetrachloride	5	U
108-05-4	Vinyl acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	9	X
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Total xylenes	7	

1E  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

4

Name: VERSAR INC. Contract: \_\_\_\_\_  
Lab Code: VERSAR Case No.: 2941 SAS No.: \_\_\_\_\_ SDG No.: 1  
Matrix: (soil/water) WATER Lab Sample ID: 24274  
Sample wt/vol: 5.0 (g/mL) ML Lab File ID: W2788  
Level: (low/med) LOW Date Received: 06/21/90  
Moisture: not dec. \_\_\_\_\_ Date Analyzed: 06/27/90  
Column (pack/cap) PACK Dilution Factor: 1.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

5
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Name: VERSAR INC. Contract: \_\_\_\_\_

Lab Code: VERSAR Case No.: 2941 SAS No.: \_\_\_\_\_ SDG No.: 1

Matrix: (soil/water) WATER Lab Sample ID: 24275

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: W2789

Level: (low/med) LOW Date Received: 06/21/90

Moisture: not dec. \_\_\_\_\_ Date Analyzed: 06/27/90

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

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

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



1E  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

5

Name: VERSAR INC. Contract: \_\_\_\_\_  
Lab Code: VERSAR Case No.: 2941 SAS No.: \_\_\_\_\_ SDG No.: 1  
Matrix: (soil/water) WATER Lab Sample ID: 24275  
Sample wt/vol: 5.0 (g/mL) ML Lab File ID: W2789  
Level: (low/med) LOW Date Received: 06/21/90  
Moisture: not dec. \_\_\_\_\_ Date Analyzed: 06/27/90  
Column (pack/cap) PACK Dilution Factor: 1.0

Number TICs found: 1

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 124-38-9	CARBON DIOXIDE (ACN)	3.08	5.0	J

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

6

Name: VERSAR INC. Contract: \_\_\_\_\_

Lab Code: VERSAR Case No.: 2941 SAS No.: \_\_\_\_\_ SDG No.: 1

Matrix: (soil/water) WATER Lab Sample ID: 24276

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: W2790

Level: (low/med) LOW Date Received: 06/21/90

Moisture: not dec. \_\_\_\_\_ Date Analyzed: 06/27/90

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

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

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

1E  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

6

Name: VERSAR INC. Contract: \_\_\_\_\_

Lab Code: VERSAR Case No.: 2941 SAS No.: \_\_\_\_\_ SDG No.: 1

Matrix: (soil/water) WATER Lab Sample ID: 24276

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: W2790

Level: (low/med) LOW Date Received: 06/21/90

Moisture: not dec. \_\_\_\_\_ Date Analyzed: 06/27/90

Column (pack/cap) PACK Dilution Factor: 1.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

7

Name: VERSAR INC. Contract: \_\_\_\_\_

Lab Code: VERSAR Case No.: 2941 SAS No.: \_\_\_\_\_ SDG No.: 1

Matrix: (soil/water) WATER Lab Sample ID: 24277

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: W2805

Level: (low/med) LOW Date Received: 06/21/90

Moisture: not dec. \_\_\_\_\_ Date Analyzed: 06/28/90

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

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

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

1E  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

7

Name: VERSAR INC. Contract: \_\_\_\_\_  
Lab Code: VERSAR Case No.: 2941 SAS No.: \_\_\_\_\_ SDG No.: 1  
Matrix: (soil/water) WATER Lab Sample ID: 24277  
Sample wt/vol: 5.0 (g/mL) ML Lab File ID: W2805  
Level: (low/med) LOW Date Received: 06/21/90  
Moisture: not dec. \_\_\_\_\_ Date Analyzed: 06/28/90  
Column (pack/cap) PACK Dilution Factor: 1.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

7RE

Name: VERSAR INC. Contract: \_\_\_\_\_

Lab Code: VERSAR Case No.: 2941 SAS No.: \_\_\_\_\_ SDG No.: 1

Matrix: (soil/water) WATER Lab Sample ID: 24277RE

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: W2824

Level: (low/med) LOW Date Received: 06/21/90

Moisture: not dec. \_\_\_\_\_ Date Analyzed: 06/29/90

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

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

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

1E  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

7RE

Name: VERSAR INC. Contract: \_\_\_\_\_  
Lab Code: VERSAR Case No.: 2941 SAS No.: \_\_\_\_\_ SDG No.: 1  
Matrix: (soil/water) WATER Lab Sample ID: 24277RE  
Sample wt/vol: 5.0 (g/mL) ML Lab File ID: W2824  
Level: (low/med) LOW Date Received: 06/21/90  
Moisture: not dec. \_\_\_\_\_ Date Analyzed: 06/29/90  
Column (pack/cap) PACK Dilution Factor: 1.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

8

Name: VERSAR INC. Contract: \_\_\_\_\_

Lab Code: VERSAR Case No.: 2941 SAS No.: \_\_\_\_\_ SDG No.: 1

Matrix: (soil/water) WATER Lab Sample ID: 24278

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: W2806

Level: (low/med) LOW Date Received: 06/21/90

Moisture: not dec. \_\_\_\_\_ Date Analyzed: 06/28/90

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

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

CAS NO. COMPOUND Q

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



1E  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

8

Name: VERSAR INC. Contract: \_\_\_\_\_  
Lab Code: VERSAR Case No.: 2941 SAS No.: \_\_\_\_\_ SDG No.: 1  
Matrix: (soil/water) WATER Lab Sample ID: 24278  
Sample wt/vol: 5.0 (g/mL) ML Lab File ID: W2806  
Level: (low/med) LOW Date Received: 06/21/90  
Moisture: not dec. \_\_\_\_\_ Date Analyzed: 06/28/90  
Column (pack/cap) PACK Dilution Factor: 1.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

8RE

Name: VERSAR INC. Contract: \_\_\_\_\_

Lab Code: VERSAR Case No.: 2941 SAS No.: \_\_\_\_\_ SDG No.: 1

Matrix: (soil/water) WATER Lab Sample ID: 24278

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: W2825

Level: (low/med) LOW Date Received: 06/21/90

Moisture: not dec. \_\_\_\_\_ Date Analyzed: 06/29/90

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

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u>	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene chloride	5	U
67-64-1	Acetone	11	
75-15-0	Carbon disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon tetrachloride	5	U
108-05-4	Vinyl acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Total xylenes	5	U

1E  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

8RE

Name: VERSAR INC. Contract: \_\_\_\_\_

Lab Code: VERSAR Case No.: 2941 SAS No.: \_\_\_\_\_ SDG No.: 1

Matrix: (soil/water) WATER Lab Sample ID: 24278

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: W2825

Level: (low/med) LOW Date Received: 06/21/90

Moisture: not dec. \_\_\_\_\_ Date Analyzed: 06/29/90

Column (pack/cap) PACK Dilution Factor: 1.0

Number TICs found: 1

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	5.63	3.0	J

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

9

Name: VERSAR INC. Contract: \_\_\_\_\_

Lab Code: VERSAR Case No.: 2941 SAS No.: \_\_\_\_\_ SDG No.: 1

Matrix: (soil/water) WATER Lab Sample ID: 24279

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: W2807

Level: (low/med) LOW Date Received: 06/21/90

Moisture: not dec. \_\_\_\_\_ Date Analyzed: 06/28/90

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

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u>	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene chloride	5	U
67-64-1	Acetone	14	B
75-15-0	Carbon disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon tetrachloride	5	U
108-05-4	Vinyl acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Total xylenes	5	U

1E  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

9

Name: VERSAR INC. Contract: \_\_\_\_\_

Lab Code: VERSAR Case No.: 2941 SAS No.: \_\_\_\_\_ SDG No.: 1

Matrix: (soil/water) WATER Lab Sample ID: 24279

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: W2807

Level: (low/med) LOW Date Received: 06/21/90

Moisture: not dec. \_\_\_\_\_ Date Analyzed: 06/28/90

Column (pack/cap) PACK Dilution Factor: 1.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
-----	-----	-----	-----	-----

000863

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

9RE

Name: VERSAR INC. Contract: \_\_\_\_\_

Lab Code: VERSAR Case No.: 2941 SAS No.: \_\_\_\_\_ SDG No.: 1

Matrix: (soil/water) WATER Lab Sample ID: 24279

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: W2826

Level: (low/med) LOW Date Received: 06/21/90

Moisture: not dec. \_\_\_\_\_ Date Analyzed: 06/29/90

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

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u>	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene chloride	3	J
67-64-1	Acetone	13	
75-15-0	Carbon disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon tetrachloride	5	U
108-05-4	Vinyl acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Total xylenes	5	U

1E  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

9RE

Name: VERSAR INC. Contract: \_\_\_\_\_

Lab Code: VERSAR Case No.: 2941 SAS No.: \_\_\_\_\_ SDG No.: 1

Matrix: (soil/water) WATER Lab Sample ID: 24279

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: W2826

Level: (low/med) LOW Date Received: 06/21/90

Moisture: not dec. \_\_\_\_\_ Date Analyzed: 06/29/90

Column (pack/cap) PACK Dilution Factor: 1.0

Number TICs found: 1

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	3.13	7.0	J

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

10

Name: VERSAR INC. Contract: \_\_\_\_\_

Lab Code: VERSAR Case No.: 2941 SAS No.: \_\_\_\_\_ SDG No.: 1

Matrix: (soil/water) WATER Lab Sample ID: 24280

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: W2808

Level: (low/med) LOW Date Received: 06/21/90

Moisture: not dec. \_\_\_\_\_ Date Analyzed: 06/28/90

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

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

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



1E  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

10

Name: VERSAR INC. Contract: \_\_\_\_\_  
Lab Code: VERSAR Case No.: 2941 SAS No.: \_\_\_\_\_ SDG No.: 1  
Matrix: (soil/water) WATER Lab Sample ID: 24280  
Sample wt/vol: 5.0 (g/mL) ML Lab File ID: W2808  
Level: (low/med) LOW Date Received: 06/21/90  
Moisture: not dec. \_\_\_\_\_ Date Analyzed: 06/28/90  
Column (pack/cap) PACK Dilution Factor: 1.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

10RE

Name: VERSAR INC. Contract: \_\_\_\_\_

Lab Code: VERSAR Case No.: 2941 SAS No.: \_\_\_\_\_ SDG No.: 1

Matrix: (soil/water) WATER Lab Sample ID: 24280

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: W2827

Level: (low/med) LOW Date Received: 06/21/90

Moisture: not dec. \_\_\_\_\_ Date Analyzed: 06/29/90

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

CAS NO. COMPOUND CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/L Q

74-87-3	-----Chloromethane	10	U
74-83-9	-----Bromomethane	10	U
75-01-4	-----Vinyl chloride	10	U
75-00-3	-----Chloroethane	10	U
75-09-2	-----Methylene chloride	3	J
67-64-1	-----Acetone	10	U
75-15-0	-----Carbon disulfide	5	U
75-35-4	-----1,1-Dichloroethene	5	U
75-34-3	-----1,1-Dichloroethane	5	U
540-59-0	-----1,2-Dichloroethene (total)	5	U
67-66-3	-----Chloroform	5	U
107-06-2	-----1,2-Dichloroethane	5	U
78-93-3	-----2-Butanone	10	U
71-55-6	-----1,1,1-Trichloroethane	5	U
56-23-5	-----Carbon tetrachloride	5	U
108-05-4	-----Vinyl acetate	10	U
75-27-4	-----Bromodichloromethane	5	U
78-87-5	-----1,2-Dichloropropane	5	U
10061-01-5	-----cis-1,3-Dichloropropene	5	U
79-01-6	-----Trichloroethene	5	U
124-48-1	-----Dibromochloromethane	5	U
79-00-5	-----1,1,2-Trichloroethane	5	U
71-43-2	-----Benzene	5	U
10061-02-6	-----Trans-1,3-dichloropropene	5	U
75-25-2	-----Bromoform	5	U
108-10-1	-----4-Methyl-2-pentanone	10	U
591-78-6	-----2-Hexanone	10	U
127-18-4	-----Tetrachloroethene	5	U
79-34-5	-----1,1,2,2-Tetrachloroethane	5	U
108-88-3	-----Toluene	5	U
108-90-7	-----Chlorobenzene	5	U
100-41-4	-----Ethylbenzene	5	U
100-42-5	-----Styrene	5	U
1330-20-7	-----Total xylenes	5	U

1E  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

10RE

Name: VERSAR INC. Contract: \_\_\_\_\_

Lab Code: VERSAR Case No.: 2941 SAS No.: \_\_\_\_\_ SDG No.: 1

Matrix: (soil/water) WATER Lab Sample ID: 24280

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: W2827

Level: (low/med) LOW Date Received: 06/21/90

Moisture: not dec. \_\_\_\_\_ Date Analyzed: 06/29/90

Column (pack/cap) PACK Dilution Factor: 1.0

Number TICs found: 1

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	3.13	7.0	J

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

11

Name: VERSAR INC. Contract: \_\_\_\_\_

Lab Code: VERSAR Case No.: 2941 SAS No.: \_\_\_\_\_ SDG No.: 1

Matrix: (soil/water) WATER Lab Sample ID: 24281

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: Y2138

Level: (low/med) LOW Date Received: 06/21/90

Moisture: not dec. \_\_\_\_\_ Date Analyzed: 06/28/90

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

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

1E  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

11

Name: VERSAR INC. Contract: \_\_\_\_\_  
Lab Code: VERSAR Case No.: 2941 SAS No.: \_\_\_\_\_ SDG No.: 1  
Matrix: (soil/water) WATER Lab Sample ID: 24281  
Sample wt/vol: 5.0 (g/mL) ML Lab File ID: Y2138  
Level: (low/med) LOW Date Received: 06/21/90  
Moisture: not dec. \_\_\_\_\_ Date Analyzed: 06/28/90  
Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TRIP\_BLK

Name: VERSAR INC. Contract: \_\_\_\_\_

Lab Code: VERSAR Case No.: 2941 SAS No.: \_\_\_\_\_ SDG No.: 1

Matrix: (soil/water) WATER Lab Sample ID: 24284

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: Y2137

Level: (low/med) LOW Date Received: 06/21/90

Moisture: not dec. \_\_\_\_\_ Date Analyzed: 06/28/90

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

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

1E  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

TRIP\_BLK

Name: VERSAR INC. Contract: \_\_\_\_\_  
Lab Code: VERSAR Case No.: 2941 SAS No.: \_\_\_\_\_ SDG No.: 1  
Matrix: (soil/water) WATER Lab Sample ID: 24284  
Sample wt/vol: 5.0 (g/mL) ML Lab File ID: Y2137  
Level: (low/med) LOW Date Received: 06/21/90  
Moisture: not dec. \_\_\_\_\_ Date Analyzed: 06/28/90  
Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK84

Name: VERSAR INC. Contract: \_\_\_\_\_

Lab Code: VERSAR Case No.: 2941 SAS No.: \_\_\_\_\_ SDG No.: 1

Matrix: (soil/water) WATER Lab Sample ID: VBLK84

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: W2784

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

Moisture: not dec. \_\_\_\_\_ Date Analyzed: 06/27/90

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

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

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



1E  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK84

Name: VERSAR INC. Contract: \_\_\_\_\_

Lab Code: VERSAR Case No.: 2941 SAS No.: \_\_\_\_\_ SDG No.: 1

Matrix: (soil/water) WATER Lab Sample ID: VBLK84

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: W2784

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

Moisture: not dec. \_\_\_\_\_ Date Analyzed: 06/27/90

Column (pack/cap) PACK Dilution Factor: 1.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK01

Name: VERSAR INC. Contract: \_\_\_\_\_

Lab Code: VERSAR Case No.: 2941 SAS No.: \_\_\_\_\_ SDG No.: 1

Matrix: (soil/water) WATER Lab Sample ID: VBLK01

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: W2801

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

Moisture: not dec. \_\_\_\_\_ Date Analyzed: 06/28/90

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u>	<u>Q</u>
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene chloride	3	J
67-64-1	Acetone	8	J
75-15-0	Carbon disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	7	J
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon tetrachloride	5	U
108-05-4	Vinyl acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Total xylenes	5	U

1E  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK01

Name: VERSAR INC. Contract: \_\_\_\_\_

Lab Code: VERSAR Case No.: 2941 SAS No.: \_\_\_\_\_ SDG No.: 1

Matrix: (soil/water) WATER Lab Sample ID: VBLK01

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: W2801

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

Moisture: not dec. \_\_\_\_\_ Date Analyzed: 06/28/90

Column (pack/cap) PACK Dilution Factor: 1.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
-----	-----	-----	-----	-----

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK23

Name: VERSAR INC. Contract: \_\_\_\_\_

Lab Code: VERSAR Case No.: 2941 SAS No.: \_\_\_\_\_ SDG No.: 1

Matrix: (soil/water) WATER Lab Sample ID: VBLK23

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: W2823

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

Moisture: not dec. \_\_\_\_\_ Date Analyzed: 06/29/90

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

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

CAS NO. COMPOUND Q

74-87-3-----	Chloromethane	10	U
74-83-9-----	Bromomethane	10	U
75-01-4-----	Vinyl chloride	10	U
75-00-3-----	Chloroethane	10	U
75-09-2-----	Methylene chloride	5	U
67-64-1-----	Acetone	10	U
75-15-0-----	Carbon disulfide	5	U
75-35-4-----	1,1-Dichloroethene	5	U
75-34-3-----	1,1-Dichloroethane	5	U
540-59-0-----	1,2-Dichloroethene (total)	5	U
67-66-3-----	Chloroform	5	U
107-06-2-----	1,2-Dichloroethane	5	U
78-93-3-----	2-Butanone	10	U
71-55-6-----	1,1,1-Trichloroethane	5	U
56-23-5-----	Carbon tetrachloride	5	U
108-05-4-----	Vinyl acetate	10	U
75-27-4-----	Bromodichloromethane	5	U
78-87-5-----	1,2-Dichloropropane	5	U
10061-01-5-----	cis-1,3-Dichloropropene	5	U
79-01-6-----	Trichloroethene	5	U
124-48-1-----	Dibromochloromethane	5	U
79-00-5-----	1,1,2-Trichloroethane	5	U
71-43-2-----	Benzene	5	U
10061-02-6-----	Trans-1,3-dichloropropene	5	U
75-25-2-----	Bromoform	5	U
108-10-1-----	4-Methyl-2-pentanone	10	U
591-78-6-----	2-Hexanone	10	U
127-18-4-----	Tetrachloroethene	5	U
79-34-5-----	1,1,2,2-Tetrachloroethane	5	U
108-88-3-----	Toluene	5	U
108-90-7-----	Chlorobenzene	5	U
100-41-4-----	Ethylbenzene	5	U
100-42-5-----	Styrene	5	U
1330-20-7-----	Total xylenes	5	U

00878

1E  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK23

Name: VERSAR INC. Contract: \_\_\_\_\_

Lab Code: VERSAR Case No.: 2941 SAS No.: \_\_\_\_\_ SDG No.: 1

Matrix: (soil/water) WATER Lab Sample ID: VBLK23

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: W2823

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

Moisture: not dec. \_\_\_\_\_ Date Analyzed: 06/29/90

Column (pack/cap) PACK Dilution Factor: 1.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====

000879

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK36

Name: VERSAR INC. Contract: \_\_\_\_\_

Lab Code: VERSAR Case No.: 2941 SAS No.: \_\_\_\_\_ SDG No.: 1

Matrix: (soil/water) WATER Lab Sample ID: VBLK36

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: Y2136

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

Moisture: not dec. \_\_\_\_\_ Date Analyzed: 06/28/90

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

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

CAS NO. COMPOUND UG/L Q

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

1E  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK36

Name: VERSAR INC. Contract: \_\_\_\_\_  
Lab Code: VERSAR Case No.: 2941 SAS No.: \_\_\_\_\_ SDG No.: 1  
Matrix: (soil/water) WATER Lab Sample ID: VBLK36  
Sample wt/vol: 5.0 (g/mL) ML Lab File ID: Y2136  
Level: (low/med) LOW Date Received: \_\_\_\_\_  
Moisture: not dec. \_\_\_\_\_ Date Analyzed: 06/28/90  
Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

4MS

Name: VERSAR INC. Contract: \_\_\_\_\_

Lab Code: VERSAR Case No.: 2941 SAS No.: \_\_\_\_\_ SDG No.: 1

Matrix: (soil/water) WATER Lab Sample ID: 29274MS

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: W2803

Level: (low/med) LOW Date Received: 06/21/90

Moisture: not dec. \_\_\_\_\_ Date Analyzed: 06/28/90

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

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

CAS NO.	COMPOUND	(ug/L or ug/Kg) <u>UG/L</u>	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	78	
75-09-2	Methylene chloride	5	U
67-64-1	Acetone	8	BJ
75-15-0	Carbon disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	3	J
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon tetrachloride	5	U
108-05-4	Vinyl acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	7	
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Total xylenes	7	X



1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

4MSD

Name: VERSAR INC. Contract: \_\_\_\_\_

Lab Code: VERSAR Case No.: 2941 SAS No.: \_\_\_\_\_ SDG No.: 1

Matrix: (soil/water) WATER Lab Sample ID: 29274MSD

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: W2804

Level: (low/med) LOW Date Received: 06/21/90

Moisture: not dec. \_\_\_\_\_ Date Analyzed: 06/28/90

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

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

CAS NO.	COMPOUND	(ug/L or ug/Kg) <u>UG/L</u>	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	78	
75-09-2	Methylene chloride	5	U
67-64-1	Acetone	12	B
75-15-0	Carbon disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	3	J
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon tetrachloride	5	U
108-05-4	Vinyl acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	7	
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Total xylenes	7	X

