FINAL REPORT

SHIELDALLOY METALLURGICAL CORPORATION

Newfield, New Jersey

April 1992

Remedial Investigation Appendices 2 - 4

Submitted by:

TRC Environmental Consultants, Inc.

5 Waterside Crossing

Windsor, CT 06095

Project No. 7650-N51

Roy F. Weston, Inc. - Lionville Laboratory
VOA ANALYTICAL DATA PACKAGE FOR
TRC/SHIELDALLOY

DATE RECEIVED: 12/18/90 RFW LOT # :9012L002

CLIENT ID	RFW #	MTX	PREP #	COLLECTION	EXTR/PREP	ANALYSIS
SMC-SC5S-01	001	W	90LVK205	12/18/90	N/A	12/21/90
SMC-SC5S-01	001 MS	W	90LVK205	12/18/90	N/A	12/21/90
SMC-SC5S-01	001 MSD	W	90LVK205	12/18/90	N/A	12/21/90
SMC-SC5D-01	003	W	90LVK205	12/18/90	N/A	12/21/90
SMC-SC5D-01	003 D1	W	90LVK206	12/18/90	N/A	12/26/90
SMC-SCIW2-01	005	W	90LVK205	12/18/90	N/A	12/21/90
SMC-SC24S-01	007	W	90LVK206	12/18/90	N/A	12/26/90
SMC-SC26S-01	009	W	90LVK205	12/18/90	N/A	12/21/90
SMC-SC2D-01	011	W	90LVK205	12/18/90	N/A	12/21/90
SMC-TB1-1218	013	W	90LVK205	12/18/90	N/A	12/21/90
SMC-FB-1218	014	W	90LVK205	12/18/90	N/A	12/21/90
SMC-TB4-1218	015	W	90LVK205	12/18/90	N/A	12/21/90
SMC-H-01	016	W	90LVK205	12/18/90	N/A	12/21/90
SMC-SC25S-01	018	W	90LVK205	12/18/90	N/A	12/21/90
SMC-SC10S-01	020	W	90LVK205	12/18/90	N/A	12/21/90
SMC-SC10D-01	022	W	90LVK205	12/18/90	N/A	12/21/90
SMC-SC21S-01	026	W	90LVK205	12/18/90	N/A	12/21/90
SMC-SC21D-01	028	W	90LVK206	12/18/90	N/A	12/26/90
SMC-TB3-1218	031	W	90LVK206	12/18/90	N/A	12/26/90
SMC-TB2-1218	033	W	90LVK206	12/18/90	N/A	12/26/90
SMC-SC19D-01	034	W	90LVK206	12/18/90	N/A	12/26/90

LAB QC:

VBLK	MB1	W	90LVK205	N/A	N/A	12/21/90
VBLK	MB1	W	90LVK206	N/A	N/A	12/26/90

ROY F. WESTON, INC.
Lionville Laboratory

CLIENT: TRC/SHIELD ALLOY **SAMPLES RECEIVED:** 12-18-90
RFW #: 9012L002, GC/MS VOLATILE
W.O. #: 2724-05-01

NARRATIVE

The set of samples consisted of eighteen (18) water samples collected on 12-18-90.

The samples were analyzed according to criteria set forth in CLP SOW 02/88 (Rev. 05/89) for TCL Volatile target compounds on 12-21,26-90.

The following is a summary of the QC results accompanying these sample results and a description of any problems encountered during their analysis:

1. Non-target compounds were detected in these samples.

2. Sample SMC-SC5D-01 required a two-fold dilution because it contained a high level of target compounds.

3. All surrogate recoveries were within EPA QC limits.

4. All matrix spike recoveries were within EPA QC limits.

5. The laboratory blanks contained the common contaminants methylene chloride and acetone at levels less than 2x the CRQL and the target compound trichloroethene at levels less than the CRQL.

6. Internal standard area and retention time criteria were met for all samples and blanks.

Jack R. Tuschall, Ph.D.
Laboratory Manager
Lionville Analytical Laboratory

1-29-91
Date

WESTON

GLOSSARY OF VOA DATA

DATA QUALIFIERS

U = Compound was analyzed for but not detected. The associated numerical value is the estimated sample quantitation limit which is included and corrected for dilution and percent moisture.

J = Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicate the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero; for example, if the limit of detection is 10 ug/L and a concentration of 3 ug/L is calculated, it is reported as 3J.

B = This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates possible/probable blank contamination. This flag is also used for a TIC as well as for a positively identified TCL compound.

E = Indicates that the compound was detected beyond the calibration range and was subsequently analyzed at a dilution.

I = Interference.

X = Additional qualifiers used as required are explained in the case narrative.

NQ = Result qualitatively confirmed but not able to quantify.

ABBREVIATIONS

BS = Indicates blank spike in which reagent grade water is spiked with the CLP matrix spiking solutions and carried through all the steps in the method. Spike recoveries are reported.

BSD = Indicates blank spike duplicate.

MS = Indicates matrix spike.

MSD = Indicates matrix spike duplicate.

DL = Indicates that surrogate recoveries were not obtained because the extract had to be diluted for analysis.

NA = Not applicable.

DF = Dilution factor.

NR = Not required.

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

SMC-SC5S-01 025

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER Lab Sample ID: 9012L002-001

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: AKCL05

Level: (low/med) LOW Date Received: 12/18/90

% Moisture: not dec. _____ Date Analyzed: 12/21/90

Column: (pack/cap) CAP Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
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	JB
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	Xylene (total)	5	U

1E

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SMC-SC5S-01 026

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9012L002-001

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: AKCL05

Level: (low/med) LOW

Date Received: 12/18/90

% Moisture: not dec. _____

Date Analyzed: 12/21/90

Column: (pack/cap) CAP

Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

SMC-SC5D-01 031

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER Lab Sample ID: 9012L002-003

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: AKCL06

Level: (low/med) LOW Date Received: 12/18/90

% Moisture: not dec. _____ Date Analyzed: 12/21/90

Column: (pack/cap) CAP Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
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	JB
67-64-1	Acetone	160	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)	14	
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	330	E
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	Xylene (total)	5	U

1E
VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO. 032

SMC-SC5D-01

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9012L002-003

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: AKCL06

Level: (low/med) LOW

Date Received: 12/18/90

% Moisture: not dec. _____

Date Analyzed: 12/21/90

Column: (pack/cap) CAP

Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

SMC-SC5D-01DL 040

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER Lab Sample ID: 9012L002-003 DL

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: AKC004

Level: (low/med) LOW Date Received: 12/18/90

% Moisture: not dec. _____ Date Analyzed: 12/26/90

Column: (pack/cap) CAP Dilution Factor: 2.00

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

CAS NO.	COMPOUND		
74-87-3	Chloromethane	NA	
74-83-9	Bromomethane	NA	
75-01-4	Vinyl Chloride	NA	
75-00-3	Chloroethane	NA	
75-09-2	Methylene Chloride	NA	
67-64-1	Acetone	NA	
75-15-0	Carbon Disulfide	NA	
75-35-4	1,1-Dichloroethene	NA	
75-34-3	1,1-Dichloroethane	NA	
540-59-0	1,2-Dichloroethene (total)	NA	
67-66-3	Chloroform	NA	
107-06-2	1,2-Dichloroethane	NA	
78-93-3	2-Butanone	NA	
71-55-6	1,1,1-Trichloroethane	NA	
56-23-5	Carbon Tetrachloride	NA	
108-05-4	Vinyl Acetate	NA	
75-27-4	Bromodichloromethane	NA	
78-87-5	1,2-Dichloropropane	NA	
10061-01-5	cis-1,3-Dichloropropene	NA	
79-01-6	Trichloroethene	330	
124-48-1	Dibromochloromethane	NA	
79-00-5	1,1,2-Trichloroethane	NA	
71-43-2	Benzene	NA	
10061-02-6	Trans-1,3-Dichloropropene	NA	
75-25-2	Bromoform	NA	
108-10-1	4-Methyl-2-pentanone	NA	
591-78-6	2-Hexanone	NA	
127-18-4	Tetrachloroethene	NA	
79-34-5	1,1,2,2-Tetrachloroethane	NA	
108-88-3	Toluene	NA	
108-90-7	Chlorobenzene	NA	
100-41-4	Ethylbenzene	NA	
100-42-5	Styrene	NA	
1330-20-7	Xylene (total)	NA	

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

045

SMC-SC1W2-01

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9012L002-005

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: AKCL07

Level: (low/med) LOW

Date Received: 12/18/90

% Moisture: not dec. _____

Date Analyzed: 12/21/90

Column: (pack/cap) CAP

Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
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	JB
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	
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	69	B
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	Xylene (total)	5	U

1E

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SMC-SC1W2-01 046

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9012L002-005

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: AKCL07

Level: (low/med) LOW

Date Received: 12/18/90

% Moisture: not dec. ____

Date Analyzed: 12/21/90

Column: (pack/cap) CAP

Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

053

SMC-SC248-01

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER Lab Sample ID: 9012L002-007

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: AKC005

Level: (low/med) LOW Date Received: 12/18/90

% Moisture: not dec. _____ Date Analyzed: 12/26/90

Column: (pack/cap) CAP Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
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	1	JB
67-64-1	Acetone	86	
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	Xylene (total)	5	U

1E
VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SMC-SC24S-01 054

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9012L002-007

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: AKC005

Level: (low/med) LOW

Date Received: 12/18/90

% Moisture: not dec. ____

Date Analyzed: 12/26/90

Column: (pack/cap) CAP

Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO. 060

SMC-SC26S-01

Dupe of SC-20

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9012L002-009

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: AKCL09

Level: (low/med) LOW

Date Received: 12/18/90

% Moisture: not dec. _____

Date Analyzed: 12/21/90

Column: (pack/cap) CAP

Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
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	JB
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)	2	J
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	110	B
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	Xylene (total)	5	U

1E
VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

061

SMC-SC26S-01

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9012L002-009

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: AKCL09

Level: (low/med) LOW

Date Received: 12/18/90

% Moisture: not dec. _____

Date Analyzed: 12/21/90

Column: (pack/cap) CAP

Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

SMC-SC2D-01 068

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER Lab Sample ID: 9012L002-011

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: ARCL10

Level: (low/med) LOW Date Received: 12/18/90

% Moisture: not dec. ____ Date Analyzed: 12/21/90

Column: (pack/cap) CAP Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
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	JB
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)	3	J
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	110	B
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	Xylene (total)	5	U

1E

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SMC-SC2D-01 069

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9012L002-011

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: AKCL10

Level: (low/med) LOW

Date Received: 12/18/90

% Moisture: not dec. ____

Date Analyzed: 12/21/90

Column: (pack/cap) CAP

Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

SMC-H-01 094

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER Lab Sample ID: 9012L002-016

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: AKCL14

Level: (low/med) LOW Date Received: 12/18/90

% Moisture: not dec. ____ Date Analyzed: 12/21/90

Column: (pack/cap) CAP Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
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	2	JB
67-64-1	Acetone	3	JB
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	1	J
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	2	J

1E
VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SMC-H-01 095

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9012L002-016

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: AKCL14

Level: (low/med) LOW

Date Received: 12/18/90

% Moisture: not dec. _____

Date Analyzed: 12/21/90

Column: (pack/cap) CAP

Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1B
VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SMC-SC25S-01 105

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER Lab Sample ID: 9012L002-018

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: AKCL15

Level: (low/med) LOW Date Received: 12/18/90

% Moisture: not dec. ____ Date Analyzed: 12/21/90

Column: (pack/cap) CAP Dilution Factor: 1.00

Number TICs found: 1

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	ALKANE	24.89	5	J

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

SMC-SC108-01 113

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER Lab Sample ID: 9012L002-020

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: AKCL16

Level: (low/med) LOW Date Received: 12/18/90

% Moisture: not dec. _____ Date Analyzed: 12/21/90

Column: (pack/cap) CAP Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
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	9	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	6	B
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	Xylene (total)	5	U

1E
VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SMC-SC108-01 114

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9012L002-020

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: AKCL16

Level: (low/med) LOW

Date Received: 12/18/90

% Moisture: not dec. _____

Date Analyzed: 12/21/90

Column: (pack/cap) CAP

Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

120

SMC-SC10D-01

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9012L002-022

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: AKCL17

Level: (low/med) LOW

Date Received: 12/18/90

% Moisture: not dec. _____

Date Analyzed: 12/21/90

Column: (pack/cap) CAP

Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
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	8	B
67-64-1	Acetone	3	JB
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	2	JB
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	Xylene (total)	5	U

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

SMC-SC218-01

128

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9012L002-026

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: AKCL18

Level: (low/med) LOW

Date Received: 12/18/90

% Moisture: not dec. _____

Date Analyzed: 12/21/90

Column: (pack/cap) CAP

Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
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	9	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	Xylene (total)	5	U

1E
VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SMC-SC21S-01 129

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9012L002-026

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: AKCL18

Level: (low/med) LOW

Date Received: 12/18/90

% Moisture: not dec. _____

Date Analyzed: 12/21/90

Column: (pack/cap) CAP

Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

SMC-SC21D-01 134

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER Lab Sample ID: 9012L002-028

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: AKC006

Level: (low/med) LOW Date Received: 12/18/90

% Moisture: not dec. _____ Date Analyzed: 12/26/90

Column: (pack/cap) CAP Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
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	1	JB
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	2	J
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	Xylene (total)	5	U

1E

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SMC-SC21D-01

135

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9012L002-028

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: AKC006

Level: (low/med) LOW

Date Received: 12/18/90

% Moisture: not dec. _____

Date Analyzed: 12/26/90

Column: (pack/cap) CAP

Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

SMC-SC19D-01 157

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER Lab Sample ID: 9012L002-034

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: AKC009

Level: (low/med) LOW Date Received: 12/18/90

% Moisture: not dec. _____ Date Analyzed: 12/26/90

Column: (pack/cap) CAP Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
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	22	
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	Xylene (total)	5	U

1E

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SMC-SC19D-01

155

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9012L002-034

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: AKC009

Level: (low/med) LOW

Date Received: 12/18/90

% Moisture: not dec. ____

Date Analyzed: 12/26/90

Column: (pack/cap) CAP

Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

SMC-SC5S-01MS 215

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9012L002-001 MS

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: AKCL19

Level: (low/med) LOW

Date Received: 12/18/90

% Moisture: not dec. _____

Date Analyzed: 12/21/90

Column: (pack/cap) CAP

Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	
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	10	B
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene		S
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		S
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene		S
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		S
108-90-7	Chlorobenzene		S
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

S: SPIKE COMPOUND

FORM 1 V-1

12/88 Rev.

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

SMC-SC5S-01MSD 219

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER Lab Sample ID: 9012L002-001 MSD

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: AKCL20

Level: (low/med) LOW Date Received: 12/18/90

% Moisture: not dec. _____ Date Analyzed: 12/21/90

Column: (pack/cap) CAP Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
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	9	B
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene		S
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		S
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene		S
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		S
108-90-7	Chlorobenzene		S
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

S: SPIKE COMPOUND

Roy F. Weston, Inc. - Lionville Laboratory
VOA ANALYTICAL DATA PACKAGE FOR
TRC/SHIELDALLOY

DATE RECEIVED: 12/19/90 RFW LOT # :9012L015

CLIENT ID	RFW #	MTX	PREP #	COLLECTION	EXTR/PREP	ANALYSIS
SMC-SC4D-01	001	W	90LVW271	12/19/90	N/A	12/20/90
SMC-SC4S-01	003	W	90LVW271	12/19/90	N/A	12/20/90
SMC-SC18S-01	005	W	90LVW273	12/19/90	N/A	12/26/90
SMC-SC18D-01	007	W	90LVW273	12/19/90	N/A	12/26/90
SMC-SC17D-01	009	W	90LVW273	12/19/90	N/A	12/26/90
SMC-IW1-01	011	W	90LVW273	12/19/90	N/A	12/26/90
SMC-TB3-1219	013	W	90LVW273	12/19/90	N/A	12/26/90
SMC-FB-1219	014	W	90LVW273	12/19/90	N/A	12/26/90
SMC-SC20S-01	015	W	90LVW273	12/19/90	N/A	12/26/90
SMC-SC11S-01	017	W	90LVW273	12/19/90	N/A	12/26/90
SMC-SC17S-01	019	W	90LVW273	12/19/90	N/A	12/26/90
SMC-TB2-01	021	W	90LVK204	12/19/90	N/A	12/20/90
SMC-TB2-01	021 MS	W	90LVK204	12/19/90	N/A	12/20/90
SMC-TB2-01	021 MSD	W	90LVK204	12/19/90	N/A	12/20/90
SMC-W3D-01	022	W	90LVK204	12/19/90	N/A	12/20/90
SMC-SC27S-01	024	W	90LVK204	12/19/90	N/A	12/20/90
SMC-TB4-01	026	W	90LVK204	12/19/90	N/A	12/20/90
SMC-G1S-01	027	W	90LVK204	12/19/90	N/A	12/20/90
SMC-L-01	029	W	90LVK204	12/19/90	N/A	12/20/90
SMC-W3S-01	031	W	90LVK204	12/19/90	N/A	12/20/90
SMC-W3S-01	031 D1	W	90LVK205	12/19/90	N/A	12/21/90
SMC-TB1-1219	033	W	90LVK204	12/19/90	N/A	12/20/90
SMC-TBS-1219	034	W	90LVK204	12/19/90	N/A	12/20/90

LAB QC:

VBLK	MB1	W	90LVW271	N/A	N/A	12/20/90
VBLK	MB1	W	90LVW273	N/A	N/A	12/26/90
VBLK	MB1	W	90LVK204	N/A	N/A	12/20/90
VBLK	MB1	W	90LVK205	N/A	N/A	12/21/90

ROY F. WESTON, INC.
Lionville Laboratory

CLIENT: TRC/SHIELD ALLOY **SAMPLES RECEIVED:** 12-19-90
RFW #: 9012L015, GC/MS VOLATILE
W.O. #: 2724-05-01

NARRATIVE

The set of samples consisted of twenty (20) water samples collected on 12-19-90.

The samples were analyzed according to criteria set forth in CLP SOW 02/88 (Rev. 05/89) for TCL Volatile target compounds on 12-20,21,26-90.

The following is a summary of the QC results accompanying these sample results and a description of any problems encountered during their analysis:

1. Non-target compounds were detected in these samples.

2. Sample SMC-W3S-01 required a two-fold dilution because it contained high levels of the target compound acetone.

3. One (1) of eighty-one (81) surrogate recoveries was outside EPA QC limits. EPA QC surrogate recovery criteria were not met for sample SMC-TB2-01MS. The original analysis associated with this sample fulfilled its re-analysis requirement.

4. All matrix spike recoveries were within EPA QC limits.

5. The laboratory blanks contained the common contaminants methylene chloride and acetone at levels less than 2x the CRQL and the target compounds carbon disulfide and trichloroethene at levels less than the CRQL.

6. Internal standard area and retention time criteria were met for all samples and blanks.

for Zohair Hamid

Jack R. Tuschall, Ph.D.
Laboratory Manager
Lionville Analytical Laboratory

1-28-91
Date

WESTON

GLOSSARY OF VOA DATA

DATA QUALIFIERS

U = Compound was analyzed for but not detected. The associated numerical value is the estimated sample quantitation limit which is included and corrected for dilution and percent moisture.

J = Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicate the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero; for example, if the limit of detection is 10 ug/L and a concentration of 3 ug/L is calculated, it is reported as 3J.

B = This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates possible/probable blank contamination. This flag is also used for a TIC as well as for a positively identified TCL compound.

E = Indicates that the compound was detected beyond the calibration range and was subsequently analyzed at a dilution.

I = Interference.

X = Additional qualifiers used as required are explained in the case narrative.

NQ = Result qualitatively confirmed but not able to quantify.

ABBREVIATIONS

BS = Indicates blank spike in which reagent grade water is spiked with the CLP matrix spiking solutions and carried through all the steps in the method. Spike recoveries are reported.

BSD = Indicates blank spike duplicate.

MS = Indicates matrix spike.

MSD = Indicates matrix spike duplicate.

DL = Indicates that surrogate recoveries were not obtained because the extract had to be diluted for analysis.

NA = Not applicable.

DF = Dilution factor.

NR = Not required.

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

SMC-SC4D-01 033

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER Lab Sample ID: 9012L015-001

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: W122006

Level: (low/med) LOW Date Received: 12/19/90

% Moisture: not dec. ____ Date Analyzed: 12/20/90

Column: (pack/cap) PACK Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
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	JB
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	2	JB
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	97	
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	Xylene (total)	5	U

1E
VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SMC-SC4D-01 034

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9012L015-001

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: W122006

Level: (low/med) LOW

Date Received: 12/19/90

% Moisture: not dec. _____

Date Analyzed: 12/20/90

Column: (pack/cap) PACK

Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

SMC-SC4S-01 C44

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER Lab Sample ID: 9012L015-003

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: W122007

Level: (low/med) LOW Date Received: 12/19/90

% Moisture: not dec. _____ Date Analyzed: 12/20/90

Column: (pack/cap) PACK Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
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	19	B
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	2	JB
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	21	
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	1	J
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	26	
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	Xylene (total)	5	U

1E

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SMC-SC4S-01 045

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9012L015-003

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: W122007

Level: (low/med) LOW

Date Received: 12/19/90

% Moisture: not dec. _____

Date Analyzed: 12/20/90

Column: (pack/cap) PACK

Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

SMC-SC18S-01

959

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9012L015-005

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: W122605

Level: (low/med) LOW

Date Received: 12/19/90

% Moisture: not dec. _____

Date Analyzed: 12/26/90

Column: (pack/cap) PACK

Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
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	13	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	1	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	120	
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	Xylene (total)	5	U

1E
VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SMC-SC18S-01 060

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9012L015-005

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: W122605

Level: (low/med) LOW

Date Received: 12/19/90

% Moisture: not dec. _____

Date Analyzed: 12/26/90

Column: (pack/cap) PACK

Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

SMC-SC18D-01 070

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER Lab Sample ID: 9012L015-007

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: W122606

Level: (low/med) LOW Date Received: 12/19/90

% Moisture: not dec. _____ Date Analyzed: 12/26/90

Column: (pack/cap) PACK Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
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	JB
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	65	
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	Xylene (total)	5	U

1E
VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SMC-SC18D-01 071

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9012L015-007

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: W122606

Level: (low/med) LOW

Date Received: 12/19/90

% Moisture: not dec. _____

Date Analyzed: 12/26/90

Column: (pack/cap) PACK

Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

SMC-SC17D-01

079

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9012L015-009

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: W122613

Level: (low/med) LOW

Date Received: 12/19/90

% Moisture: not dec. _____

Date Analyzed: 12/26/90

Column: (pack/cap) PACK

Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
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	14	B
67-64-1	Acetone	5	JB
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	Xylene (total)	5	U

1E

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SMC-SC17D-01 080

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9012L015-009

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: W122613

Level: (low/med) LOW

Date Received: 12/19/90

% Moisture: not dec. _____

Date Analyzed: 12/26/90

Column: (pack/cap) PACK

Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

SMC-IW1-01 088

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9012L015-011

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: W122607

Level: (low/med) LOW

Date Received: 12/19/90

% Moisture: not dec. _____

Date Analyzed: 12/26/90

Column: (pack/cap) PACK

Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
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	12	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	
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	Xylene (total)	5	U

1E
VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SMC-IW1-01

059

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9012L015-011

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: W122607

Level: (low/med) LOW

Date Received: 12/19/90

% Moisture: not dec. _____

Date Analyzed: 12/26/90

Column: (pack/cap) PACK

Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

SMC-SC20S-01 126

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9012L015-015

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: W122610

Level: (low/med) LOW

Date Received: 12/19/90

% Moisture: not dec. _____

Date Analyzed: 12/26/90

Column: (pack/cap) PACK

Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
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	9	B
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	1	J
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	38	
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	3	J
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	120	
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	Xylene (total)	5	U

1E

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SMC-SC20S-01 127

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9012L015-015

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: W122610

Level: (low/med) LOW

Date Received: 12/19/90

% Moisture: not dec. _____

Date Analyzed: 12/26/90

Column: (pack/cap) PACK

Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

SMC-SC11S-01 141

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER Lab Sample ID: 9012L015-017

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: W122611

Level: (low/med) LOW Date Received: 12/19/90

% Moisture: not dec. _____ Date Analyzed: 12/26/90

Column: (pack/cap) PACK Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
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	16	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)	7	
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	3	J
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	Xylene (total)	5	U

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

SMC-SC17S-01 152

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER Lab Sample ID: 9012L015-019

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: W122612

Level: (low/med) LOW Date Received: 12/19/90

% Moisture: not dec. _____ Date Analyzed: 12/26/90

Column: (pack/cap) PACK Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
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	16	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	Xylene (total)	5	U

1E
VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

153

SMC-SC17S-01

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9012L015-019

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: W122612

Level: (low/med) LOW

Date Received: 12/19/90

% Moisture: not dec. _____

Date Analyzed: 12/26/90

Column: (pack/cap) PACK

Dilution Factor: 1.00

Number TICs found: 1

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	DIETHYL ETHER	6.20	8	J

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

SMC-W3D-01 171

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER Lab Sample ID: 9012L015-022

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: AKCK06

Level: (low/med) LOW Date Received: 12/19/90

% Moisture: not dec. _____ Date Analyzed: 12/20/90

Column: (pack/cap) CAP Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
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	2	JB
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	Xylene (total)	5	U

1E

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SMC-W3D-01 172

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9012L015-022

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: AKCK06

Level: (low/med) LOW

Date Received: 12/19/90

% Moisture: not dec. _____

Date Analyzed: 12/20/90

Column: (pack/cap) CAP

Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

SMC-SC278-01 177

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Copy of W30

Matrix: WATER

Lab Sample ID: 9012L015-024

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: AKCK07

Level: (low/med) LOW

Date Received: 12/19/90

% Moisture: not dec. _____

Date Analyzed: 12/20/90

Column: (pack/cap) CAP

Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
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	2	JB
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	Xylene (total)	5	U

1E
VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SMC-SC27S-01 178

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9012L015-024

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: AKCK07

Level: (low/med) LOW

Date Received: 12/19/90

% Moisture: not dec. _____

Date Analyzed: 12/20/90

Column: (pack/cap) CAP

Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

SMC-G1S-01 193

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9012L015-027

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: AKCK09

Level: (low/med) LOW

Date Received: 12/19/90

% Moisture: not dec. _____

Date Analyzed: 12/20/90

Column: (pack/cap) CAP

Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
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	JB
67-64-1	Acetone	47	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	1	J
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	Xylene (total)	5	U

1E

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SMC-G1S-01 194

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER Lab Sample ID: 9012L015-027

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: AKCK09

Level: (low/med) LOW Date Received: 12/19/90

% Moisture: not dec. _____ Date Analyzed: 12/20/90

Column: (pack/cap) CAP Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

SMC-L-01 201

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER Lab Sample ID: 9012L015-029

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: AKCK10

Level: (low/med) LOW Date Received: 12/19/90

% Moisture: not dec. _____ Date Analyzed: 12/20/90

Column: (pack/cap) CAP Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
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	2	JB
67-64-1	Acetone	8	JB
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	Xylene (total)	5	U

1E

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SMC-L-01 202

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9012L015-029

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: AKCK10

Level: (low/med) LOW

Date Received: 12/19/90

% Moisture: not dec. _____

Date Analyzed: 12/20/90

Column: (pack/cap) CAP

Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

SMC-W3S-01 2UR

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9012L015-031

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: AKCK11

Level: (low/med) LOW

Date Received: 12/19/90

% Moisture: not dec. _____

Date Analyzed: 12/20/90

Column: (pack/cap) CAP

Dilution Factor: 1.00

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

CAS NO.	COMPOUND			
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		JB
67-64-1	Acetone	17	B	E
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	Xylene (total)	5		U

Diluted see next page

1E

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SMC-W3S-01 209

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER Lab Sample ID: 9012L015-031

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: AKCK11

Level: (low/med) LOW Date Received: 12/19/90

% Moisture: not dec. _____ Date Analyzed: 12/20/90

Column: (pack/cap) CAP Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

SMC-W3S-01DL 21.5

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9012L015-031 DL

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: AKCL04

Level: (low/med) LOW

Date Received: 12/19/90

% Moisture: not dec. _____

Date Analyzed: 12/21/90

Column: (pack/cap) CAP

Dilution Factor: 2.00

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

CAS NO.	COMPOUND		
74-87-3	Chloromethane	NA	
74-83-9	Bromomethane	NA	
75-01-4	Vinyl Chloride	NA	
75-00-3	Chloroethane	NA	
75-09-2	Methylene Chloride	NA	
67-64-1	Acetone	170	B
75-15-0	Carbon Disulfide	NA	
75-35-4	1,1-Dichloroethene	NA	
75-34-3	1,1-Dichloroethane	NA	
540-59-0	1,2-Dichloroethene (total)	NA	
67-66-3	Chloroform	NA	
107-06-2	1,2-Dichloroethane	NA	
78-93-3	2-Butanone	NA	
71-55-6	1,1,1-Trichloroethane	NA	
56-23-5	Carbon Tetrachloride	NA	
108-05-4	Vinyl Acetate	NA	
75-27-4	Bromodichloromethane	NA	
78-87-5	1,2-Dichloropropane	NA	
10061-01-5	cis-1,3-Dichloropropene	NA	
79-01-6	Trichloroethene	NA	
124-48-1	Dibromochloromethane	NA	
79-00-5	1,1,2-Trichloroethane	NA	
71-43-2	Benzene	NA	
10061-02-6	Trans-1,3-Dichloropropene	NA	
75-25-2	Bromoform	NA	
108-10-1	4-Methyl-2-pentanone	NA	
591-78-6	2-Hexanone	NA	
127-18-4	Tetrachloroethene	NA	
79-34-5	1,1,2,2-Tetrachloroethane	NA	
108-88-3	Toluene	NA	
108-90-7	Chlorobenzene	NA	
100-41-4	Ethylbenzene	NA	
100-42-5	Styrene	NA	
1330-20-7	Xylene (total)	NA	

Roy F. Weston, Inc. - Lionville Laboratory
VOA ANALYTICAL DATA PACKAGE FOR
TRC/SHIELDALLOY

DATE RECEIVED: 12/21/90 RFW LOT # :9012L031

CLIENT ID	RFW #	MTX	PREP #	COLLECTION	EXTR/PREP	ANALYSIS
SMC-SC13D-01	003	W	90LVY263	12/20/90	N/A	12/27/90
SMC-TB5-1220	005	W	90LVY262	12/20/90	N/A	12/26/90
SMC-FB-1220	006	W	90LVY262	12/20/90	N/A	12/26/90
SMC-IWC5-01	007	W	90LVY263	12/20/90	N/A	12/27/90
SMC-IWC5-01	007 R1	W	90LVY263	12/20/90	N/A	12/27/90
SMC-TB3-1220	009	W	90LVY262	12/20/90	N/A	12/26/90
SMC-IWC2-01	010	W	90LVY263	12/20/90	N/A	12/27/90
SMC-IWC2-01	010 MS	W	90LVY263	12/20/90	N/A	12/27/90
SMC-IWC2-01	010 MSD	W	90LVY263	12/20/90	N/A	12/27/90
SMC-SC22S-01	012	W	90LVY263	12/20/90	N/A	12/27/90
SMC-SC22D-01	014	W	90LVY263	12/20/90	N/A	12/27/90
SMC-TB4-1220	018	W	90LVY262	12/20/90	N/A	12/26/90
SMC-K-01	023	W	90LVY263	12/20/90	N/A	12/27/90
SMC-A-01	025	W	90LVY263	12/20/90	N/A	12/27/90
SMC-D-01	027	W	90LVY262	12/20/90	N/A	12/26/90
SMC-SC19S-01	029	W	90LVY263	12/20/90	N/A	12/27/90
SMC-TB1-1220	031	W	90LVY262	12/20/90	N/A	12/26/90
SMC-G2D-01	032	W	90LVY263	12/20/90	N/A	12/27/90
SMC-F-01	034	W	90LVY262	12/20/90	N/A	12/26/90
SMC-W2-01	036	W	90LVY263	12/20/90	N/A	12/27/90
SMC-TB2-1220	042	W	90LVY262	12/20/90	N/A	12/26/90

LAB QC:

VBLK	MB1	W	90LVY263	N/A	N/A	12/27/90
VBLK	MB1	W	90LVY262	N/A	N/A	12/26/90

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO. 2

SMC-SC13D-01

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER Lab Sample ID: 9012L031-003

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: Y122705

Level: (low/med) LOW Date Received: 12/21/90

% Moisture: not dec. _____ Date Analyzed: 12/27/90

Column: (pack/cap) PACK Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
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	31	B
67-64-1	Acetone	4	JB
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	Xylene (total)	5	U

1E

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SMC-SC13D-01

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9012L031-003

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: Y122705

Level: (low/med) LOW

Date Received: 12/21/90

% Moisture: not dec. _____

Date Analyzed: 12/27/90

Column: (pack/cap) PACK

Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

SMC-IWC5-01

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9012L031-007

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: Y122712

Level: (low/med) LOW

Date Received: 12/21/90

% Moisture: not dec. _____

Date Analyzed: 12/27/90

Column: (pack/cap) PACK

Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
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	20	B
67-64-1	Acetone	9	JB
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	2	J
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	Xylene (total)	5	U

1E
VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

50

SMC-IWC5-01

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9012L031-007

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: Y122712

Level: (low/med) LOW

Date Received: 12/21/90

% Moisture: not dec. ____

Date Analyzed: 12/27/90

Column: (pack/cap) PACK

Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

SMC-IWC5-01RE

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9012L031-007

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: Y122717

Level: (low/med) LOW

Date Received: 12/21/90

% Moisture: not dec. _____

Date Analyzed: 12/27/90

Column: (pack/cap) PACK

Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
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	9	B
67-64-1	Acetone	17	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	2	J
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	Xylene (total)	5	U

1E
VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SMC-IWC5-01RE

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9012L031-007

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: Y122717

Level: (low/med) LOW

Date Received: 12/21/90

% Moisture: not dec. _____

Date Analyzed: 12/27/90

Column: (pack/cap) PACK

Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE #

SMC-IWC2-01

79

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER Lab Sample ID: 9012L031-L

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: Y122710

Level: (low/med) LOW Date Received: 12/21/90

% Moisture: not dec. _____ Date Analyzed: 12/27/90

Column: (pack/cap) PACK Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
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	16	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	4	J
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	Xylene (total)	5	U

1E
VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO. 80

SMC-IWC2-01

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9012L031-010

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: Y122710

Level: (low/med) LOW

Date Received: 12/21/90

% Moisture: not dec. _____

Date Analyzed: 12/27/90

Column: (pack/cap) PACK

Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

SMC-SC22S-01

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9012L031-012

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: Y122706

Level: (low/med) LOW

Date Received: 12/21/90

% Moisture: not dec. _____

Date Analyzed: 12/27/90

Column: (pack/cap) PACK

Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
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	24	B
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	Xylene (total)	5	U

1E
VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO. 89

SMC-SC22S-01

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9012L031-012

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: Y122706

Level: (low/med) LOW

Date Received: 12/21/90

% Moisture: not dec. ____

Date Analyzed: 12/27/90

Column: (pack/cap) PACK

Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE !

SMC-SC22D-01

97

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9012L031-014

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: Y122714

Level: (low/med) LOW

Date Received: 12/21/90

% Moisture: not dec. _____

Date Analyzed: 12/27/90

Column: (pack/cap) PACK

Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
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	30	B
67-64-1	Acetone	73	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	70	
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	Xylene (total)	5	U

1E
VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SMC-SC22D-01

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9012L031-014

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: Y122714

Level: (low/med) LOW

Date Received: 12/21/90

% Moisture: not dec. _____

Date Analyzed: 12/27/90

Column: (pack/cap) PACK

Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAI

SMC-K-01

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9012L031-023

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: Y122707

Level: (low/med) LOW

Date Received: 12/21/90

% Moisture: not dec. _____

Date Analyzed: 12/27/90

Column: (pack/cap) PACK

Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
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	22	B
67-64-1	Acetone	12	B
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	1	J
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	3	J
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	110	
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	Xylene (total)	5	U

1E
VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO. 118

SMC-K-01

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9012L031-023

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: Y122707

Level: (low/med) LOW

Date Received: 12/21/90

% Moisture: not dec. _____

Date Analyzed: 12/27/90

Column: (pack/cap) PACK

Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMJ

131

SMC-A-01

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9012L031-025

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: Y122713

Level: (low/med) LOW

Date Received: 12/21/90

% Moisture: not dec. _____

Date Analyzed: 12/27/90

Column: (pack/cap) PACK

Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
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	32	B
67-64-1	Acetone	32	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	23	
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	Xylene (total)	5	U

1E
VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO. 132

SMC-A-01

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9012L031-025

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: Y122713

Level: (low/med) LOW

Date Received: 12/21/90

% Moisture: not dec. _____

Date Analyzed: 12/27/90

Column: (pack/cap) PACK

Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMP

SMC-D-01

142

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9012L031-027

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: Y122615

Level: (low/med) LOW

Date Received: 12/21/90

% Moisture: not dec. ____

Date Analyzed: 12/26/90

Column: (pack/cap) PACK

Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
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	26	B
67-64-1	Acetone	19	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	Xylene (total)	5	U

1E
VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

143

SMC-D-01

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9012L031-027

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: Y122615

Level: (low/med) LOW

Date Received: 12/21/90

% Moisture: not dec. ____

Date Analyzed: 12/26/90

Column: (pack/cap) PACK

Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

SMC-SC19S-01

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER Lab Sample ID: 9012L031-029

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: Y122708

Level: (low/med) LOW Date Received: 12/21/90

% Moisture: not dec. _____ Date Analyzed: 12/27/90

Column: (pack/cap) PACK Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
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	21	B
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	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	Xylene (total)	5	U

1E
VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO. 152

SMC-SC19S-01

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9012L031-029

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: Y122708

Level: (low/med) LOW

Date Received: 12/21/90

% Moisture: not dec. _____

Date Analyzed: 12/27/90

Column: (pack/cap) PACK

Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

SMC-G2D-01

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

163

Matrix: WATER

Lab Sample ID: 9012L031-032

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: Y122709

Level: (low/med) LOW

Date Received: 12/21/90

% Moisture: not dec. _____

Date Analyzed: 12/27/90

Column: (pack/cap) PACK

Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
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	20	B
67-64-1	Acetone	25	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	Xylene (total)	5	U

1E

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPL: SMC-G2D-01

170

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9012L031-032

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: Y122709

Level: (low/med) LOW

Date Received: 12/21/90

% Moisture: not dec. ____

Date Analyzed: 12/27/90

Column: (pack/cap) PACK

Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE

SMC-F-01

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9012L031-034

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: Y122616

Level: (low/med) LOW

Date Received: 12/21/90

% Moisture: not dec. _____

Date Analyzed: 12/26/90

Column: (pack/cap) PACK

Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
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	26	B
67-64-1	Acetone	11	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	4	J
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	Xylene (total)	5	U

1E
VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO. 179

SMC-F-01

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9012L031-034

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: Y122616

Level: (low/med) LOW

Date Received: 12/21/90

% Moisture: not dec. ____

Date Analyzed: 12/26/90

Column: (pack/cap) PACK

Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO

SMC-W2-01

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

lient: TRC/SHIELDALLOY

Matrix: WATER Lab Sample ID: 9012L031-036

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: Y122711

Level: (low/med) LOW Date Received: 12/21/90

% Moisture: not dec. _____ Date Analyzed: 12/27/90

Column: (pack/cap) PACK Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
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	19	B
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	Xylene (total)	5	U

1E
VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO. 190

SMC-W2-01

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

C. .t: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9012L031-036

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: Y122711

Level: (low/med) LOW

Date Received: 12/21/90

% Moisture: not dec. _____

Date Analyzed: 12/27/90

Column: (pack/cap) PACK

Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPI

SMC-IWC2-01MS

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9012L031-010 MS

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: Y122715

Level: (low/med) LOW

Date Received: 12/21/90

% Moisture: not dec. _____

Date Analyzed: 12/27/90

Column: (pack/cap) PACK

Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	
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	24	B
67-64-1	Acetone	20	B
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene		S
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		S
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene		S
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		S
108-90-7	Chlorobenzene		S
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

S: SPIKE COMPOUND

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO. 264

SMC-IWC2-01MSD

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9012L031-010 MSD

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: Y122716

Level: (low/med) LOW

Date Received: 12/21/90

% Moisture: not dec. _____

Date Analyzed: 12/27/90

Column: (pack/cap) PACK

Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
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	24	B
67-64-1	Acetone	16	B
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene		S
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		S
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene		S
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		S
108-90-7	Chlorobenzene		S
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

S: SPIKE COMPOUND

FORM 1 V-1

12/88 Rev.

Roy F. Weston, Inc. - Lionville Laboratory
VOA ANALYTICAL DATA PACKAGE FOR
TRC/SHIELDALLOY

DATE RECEIVED: 12/17/90 RFW LOT # :9012L995

CLIENT ID	RFW #	MTX	PREP #	COLLECTION	EXTR/PREP	ANALYSIS
SMC-FB1-01	001	W	90LVK203	12/17/90	N/A	12/19/90
SMC-FB1-01	001 MS	W	90LVK203	12/17/90	N/A	12/19/90
SMC-FB1-01	001 MSD	W	90LVK203	12/17/90	N/A	12/19/90
SMC-SC6S-01	002	W	90LVK203	12/17/90	N/A	12/19/90
SMC-6D-01	004	W	90LVK203	12/17/90	N/A	12/19/90
SMC-SC15S-01	006	W	90LVK203	12/17/90	N/A	12/19/90
SMC-TB2-01	008	W	90LVK203	12/17/90	N/A	12/19/90
SMC-SC1S-01	009	W	90LVK203	12/17/90	N/A	12/19/90
SMC-SC1D-01	011	W	90LVK203	12/17/90	N/A	12/19/90
SMC-SC3S-01	013	W	90LVK203	12/17/90	N/A	12/19/90
SMC-SC3D-01	015	W	90LVK203	12/17/90	N/A	12/19/90
SMC-SC16S-01	017	W	90LVK203	12/17/90	N/A	12/19/90
SMC-SC23S-01	019	W	90LVK203	12/17/90	N/A	12/19/90
SMC-SC23S-01	019 D1	W	90LVK204	12/17/90	N/A	12/20/90
SMC-TB3-01	020	W	90LVK203	12/17/90	N/A	12/19/90
SMC-TB1-01	039	W	90LVK203	12/17/90	N/A	12/19/90

LAB QC:

VBLK	MB1	W	90LVK203	N/A	N/A	12/19/90
VBLK	MB1	W	90LVK204	N/A	N/A	12/20/90

WESTON

GLOSSARY OF VOA DATA

DATA QUALIFIERS

U = Compound was analyzed for but not detected. The associated numerical value is the estimated sample quantitation limit which is included and corrected for dilution and percent moisture.

J = Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicate the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero; for example, if the limit of detection is 10 ug/L and a concentration of 3 ug/L is calculated, it is reported as 3J.

B = This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates possible/probable blank contamination. This flag is also used for a TIC as well as for a positively identified TCL compound.

E = Indicates that the compound was detected beyond the calibration range and was subsequently analyzed at a dilution.

I = Interference.

X = Additional qualifiers used as required are explained in the case narrative.

NQ = Result qualitatively confirmed but not able to quantify.

ABBREVIATIONS

BS = Indicates blank spike in which reagent grade water is spiked with the CLP matrix spiking solutions and carried through all the steps in the method. Spike recoveries are reported.

BSD = Indicates blank spike duplicate.

MS = Indicates matrix spike.

MSD = Indicates matrix spike duplicate.

DL = Indicates that surrogate recoveries were not obtained because the extract had to be diluted for analysis.

NA = Not applicable.

DF = Dilution factor.

NR = Not required.

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

SMC-6S-01 030

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9012L995-002

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: AKCJ05

Level: (low/med) LOW

Date Received: 12/17/90

% Moisture: not dec. _____

Date Analyzed: 12/19/90

Column: (pack/cap) CAP

Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
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	JB
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	4	J
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	9	
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	78	
71-55-6	1,1,1-Trichloroethane	9	
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	55	
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	3	J
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

1E
VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

031

SMC-6S-01

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9012L995-002

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: AKCJ05

Level: (low/med) LOW

Date Received: 12/17/90

% Moisture: not dec. _____

Date Analyzed: 12/19/90

Column: (pack/cap) CAP

Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

SMC-6D-01 042

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER Lab Sample ID: 9012L995-004

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: AKCJ06

Level: (low/med) LOW Date Received: 12/17/90

% Moisture: not dec. _____ Date Analyzed: 12/19/90

Column: (pack/cap) CAP Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
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	JB
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	40	
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	Xylene (total)	5	U

1E

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SMC-6D-01

043

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9012L995-004

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: AKCJ06

Level: (low/med) LOW

Date Received: 12/17/90

% Moisture: not dec. _____

Date Analyzed: 12/19/90

Column: (pack/cap) CAP

Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

SMC-SC15S-01 049

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9012L995-006

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: AKCJ07

Level: (low/med) LOW

Date Received: 12/17/90

% Moisture: not dec. _____

Date Analyzed: 12/19/90

Column: (pack/cap) CAP

Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
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	2	JB
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	Xylene (total)	5	U

1E

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SMC-SC15S-01 050

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9012L995-006

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: AKCJ07

Level: (low/med) LOW

Date Received: 12/17/90

% Moisture: not dec. _____

Date Analyzed: 12/19/90

Column: (pack/cap) CAP

Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

SMC-SC15-01 001

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9012L995-009

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: AKCJ09

Level: (low/med) LOW

Date Received: 12/17/90

% Moisture: not dec. _____

Date Analyzed: 12/19/90

Column: (pack/cap) CAP

Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
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	1	JB
67-64-1	Acetone	4	JB
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	4	J
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	Xylene (total)	5	U

1E
VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SMC-SC15-01

062

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9012L995-009

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: AKCJ09

Level: (low/med) LOW

Date Received: 12/17/90

% Moisture: not dec. _____

Date Analyzed: 12/19/90

Column: (pack/cap) CAP

Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

SMC-SC1D-01 063

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER Lab Sample ID: 9012L995-011

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: AKCJ10

Level: (low/med) LOW Date Received: 12/17/90

% Moisture: not dec. _____ Date Analyzed: 12/19/90

Column: (pack/cap) CAP Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
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	2	JB
67-64-1	Acetone	45	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	3	J
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	Xylene (total)	5	U

1E

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SMC-SC1D-01 070

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9012L995-011

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: AKCJ10

Level: (low/med) LOW

Date Received: 12/17/90

% Moisture: not dec. _____

Date Analyzed: 12/19/90

Column: (pack/cap) CAP

Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

SMC-SC3S-01

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER Lab Sample ID: 9012L995-013

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: AKCJ11

Level: (low/med) LOW Date Received: 12/17/90

% Moisture: not dec. _____ Date Analyzed: 12/19/90

Column: (pack/cap) CAP Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
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	28	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	6	
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	Xylene (total)	5	U

1E

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SMC-SC3S-01 078

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9012L995-013

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: AKCJ11

Level: (low/med) LOW

Date Received: 12/17/90

% Moisture: not dec. _____

Date Analyzed: 12/19/90

Column: (pack/cap) CAP

Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

SMC-SC3D-01 084

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER Lab Sample ID: 9012L995-015

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: AKCJ12

Level: (low/med) LOW Date Received: 12/17/90

% Moisture: not dec. _____ Date Analyzed: 12/19/90

Column: (pack/cap) CAP Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
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	2	JB
67-64-1	Acetone	110	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	17	
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	Xylene (total)	5	U

1E
VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SMC-SC3D-01 085

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9012L995-015

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: AKCJ12

Level: (low/med) LOW

Date Received: 12/17/90

% Moisture: not dec. _____

Date Analyzed: 12/19/90

Column: (pack/cap) CAP

Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

SMC-SC16S-01 032

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER Lab Sample ID: 9012L995-017

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: AKCJ13

Level: (low/med) LOW Date Received: 12/17/90

% Moisture: not dec. _____ Date Analyzed: 12/19/90

Column: (pack/cap) CAP Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
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	2	JB
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	Xylene (total)	5	U

1E

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SMC-SC16S-01

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9012L995-017

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: AKCJ13

Level: (low/med) LOW

Date Received: 12/17/90

% Moisture: not dec. _____

Date Analyzed: 12/19/90

Column: (pack/cap) CAP

Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

SMC-SC23S-01

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER Lab Sample ID: 9012L995-019

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: AKCJ14

Level: (low/med) LOW Date Received: 12/17/90

% Moisture: not dec. _____ Date Analyzed: 12/19/90

Column: (pack/cap) CAP Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
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	JB
67-64-1	Acetone	9	JB
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	65	
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	[illegible]	E ⇐ ?
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	[illegible]	E ⇐ ?
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	[illegible]	E ⇐ ?

What concentrations were these compounds analyzed at.

Go to SMC-SC23S-01CL to get concentrations!

FORM 1 V-1 12/88 Rev.

1E

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SMC-SC23S-01 033

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9012L995-019

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: AKCJ14

Level: (low/med) LOW

Date Received: 12/17/90

% Moisture: not dec. ____

Date Analyzed: 12/19/90

Column: (pack/cap) CAP

Dilution Factor: 1.00

Number TICs found: 9

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	C3 BENZENE	20.71	40	J
2.	C3 BENZENE	21.02	200	J
3.	C3 BENZENE	21.24	80	J
4.	C3 BENZENE	21.70	100	J
5.	C3 BENZENE	22.17	300	J
6.	C3 BENZENE	23.19	100	J
7.	UNKNOWN	23.60	90	J
8.	UNKNOWN	24.22	40	J
9.	C4 BENZENE	24.92	40	J

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

SMC-SC23S-01DL 120

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9012L995-019 DL

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: AKCK04

Level: (low/med) LOW

Date Received: 12/17/90

% Moisture: not dec. _____

Date Analyzed: 12/20/90

Column: (pack/cap) CAP

Dilution Factor: 10.0

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

CAS NO.	COMPOUND		
74-87-3	Chloromethane	NA	
74-83-9	Bromomethane	NA	
75-01-4	Vinyl Chloride	NA	
75-00-3	Chloroethane	NA	
75-09-2	Methylene Chloride	NA	
67-64-1	Acetone	NA	
75-15-0	Carbon Disulfide	NA	
75-35-4	1,1-Dichloroethene	NA	
75-34-3	1,1-Dichloroethane	NA	
540-59-0	1,2-Dichloroethene (total)	NA	
67-66-3	Chloroform	NA	
107-06-2	1,2-Dichloroethane	NA	
78-93-3	2-Butanone	NA	
71-55-6	1,1,1-Trichloroethane	NA	
56-23-5	Carbon Tetrachloride	NA	
108-05-4	Vinyl Acetate	NA	
75-27-4	Bromodichloromethane	NA	
78-87-5	1,2-Dichloropropane	NA	
10061-01-5	cis-1,3-Dichloropropene	NA	
79-01-6	Trichloroethene	NA	
124-48-1	Dibromochloromethane	NA	
79-00-5	1,1,2-Trichloroethane	NA	
71-43-2	Benzene	NA	
10061-02-6	Trans-1,3-Dichloropropene	NA	
75-25-2	Bromoform	NA	
108-10-1	4-Methyl-2-pentanone	NA	
591-78-6	2-Hexanone	NA	
127-18-4	Tetrachloroethene	NA	
79-34-5	1,1,2,2-Tetrachloroethane	NA	
108-88-3	Toluene	2000	
108-90-7	Chlorobenzene	NA	
100-41-4	Ethylbenzene	240	
100-42-5	Styrene	NA	
1330-20-7	Xylene (total)	810	

Roy F. Weston, Inc. - Lionville Laboratory
BNA ANALYTICAL DATA PACKAGE FOR
TRC/SHIELDALLOY

DATE RECEIVED: 12/19/90 RFW LOT # :9012L015

CLIENT ID	RFW #	MTX	PREP #	COLLECTION	EXTR/PREP	ANALYSIS
SMC-FB-1219	014	W	90LE1504	12/19/90	12/21/90	01/25/91
SMC-SC20S-01	015	W	90LE1504	12/19/90	12/21/90	01/25/91
SMC-W3D-01	022	W	90LE1504	12/19/90	12/21/90	01/25/91
SMC-SC27S-01	024	W	90LE1504	12/19/90	12/21/90	01/25/91
SMC-G1S-01	027	W	90LE1504	12/19/90	12/21/90	01/25/91
SMC-W3S-01	031	W	90LE1504	12/19/90	12/21/90	01/25/91
LAB QC:						
SBLK	MB1	W	90LE1504	N/A	12/21/90	01/08/91
SBLK	MB1 BS	W	90LE1504	N/A	12/21/90	01/08/91
SBLK	MB1 BSD	W	90LE1504	N/A	12/21/90	01/08/91

11A

ROY F. WESTON, INC.
Lionville Laboratory

CLIENT: TRC/SHIELDALLOY **SAMPLES RECEIVED:** 12-19-90
RFW #: 9012L015, SEMIVOLATILE
W.O. #: 2724-05-01

NARRATIVE

The set of samples consisted of six (6) water samples collected on 12-19-90.

The samples were extracted on 12-21-90 and analyzed according to criteria set forth in CLP SOW 2/88 (rev. 5/89) for TCL Semivolatile target compounds on 01-08,25-91.

The following is a summary of the QC results accompanying these sample results and a description of any problems encountered during their analysis:

1. Non-target compounds were detected in these samples.

2. One (1) of fifty-four (54) surrogate recoveries was outside EPA QC limits ;however, EPA CLP surrogate recovery criteria were met (i.e., no more than one outlier per fraction (acid and base neutral) and no recoveries less than 10%).

3. Two (2) of twenty-two (22) blank spike recoveries were outside EPA QC limits.

4. Internal standard area and retention time criteria were met for all samples and blanks.

Jack R. Tuschall, Ph.D.
Laboratory Manager
Lionville Analytical Laboratory

3-29-9
Date

WESTON

GLOSSARY OF BNA DATA

DATA QUALIFIERS

U = Compound was analyzed for but not detected. The associated numerical value is the estimated sample quantitation limit which is included and corrected for dilution and percent moisture.

J = Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicate the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero; for example, if the limit of detection is 10 ug/L and a concentration of 3 ug/L is calculated, it is reported as 3J.

B = This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates possible/probable blank contamination. This flag is also used for a TIC as well as for a positively identified TCL compound.

E = Indicates that the compound was detected beyond the calibration range and was subsequently analyzed at a dilution.

I = Interference.

A = Aldol Condensation Product.

X = Additional qualifiers used as required are explained in the case narrative.

NQ = Result qualitatively confirmed but not able to quantify.

ABBREVIATIONS

BS = Indicates blank spike in which reagent grade water is spiked with the CLP matrix spiking solutions and carried through all the steps in the method. Spike recoveries are reported.

BSD = Indicates blank spike duplicate.

MS = Indicates matrix spike.

MSD = Indicates matrix spike duplicate.

DL = Indicates that surrogate recoveries were not obtained because the extract had to be diluted for analysis.

NA = Not applicable.

DF = Dilution factor.

NR = Not required.

1B
SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

SMC-SC20S-01

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER Lab Sample ID: 9012L015-015

34

Sample wt/vol: 990 (g/mL) ML Lab File ID: J012504

Level: (low/med) LOW Date Received: 12/19/90

% Moisture: not dec. _____ dec. Date Extracted: 12/21/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 01/25/91

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	bis(2-Chloroisopropyl)ether	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic acid	50	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U

1C
SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

SMC-SC20S-01

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER Lab Sample ID: 9012L015-015

35

Sample wt/vol: 990 (g/mL) ML Lab File ID: J012504

Level: (low/med) LOW Date Received: 12/19/90

% Moisture: not dec. _____ dec. Date Extracted: 12/21/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 01/25/91

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-Octyl phthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SMC-SC20S-01

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9012L015-015

Sample wt/vol: 990 (g/mL) ML

Lab File ID: J012504

Level: (low/med) LOW

Date Received: 12/19/90

% Moisture: not dec. _____ dec.

Date Extracted: 12/21/90

Extraction: (SepF/Cont/Sonc) SEPF

Date Analyzed: 01/25/91

GPC Cleanup: (Y/N) N pH: 7.0

Dilution Factor: 1.00

Number TICs found: 11

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	7.11	30	JB
2.	UNKNOWN	7.69	8	J
3.	ALKYNE	19.62	10	J
4.	ALKYNE	19.74	20	JB
5.	PHTHALATE	20.45	7	J
6.	UNKNOWN	20.62	6	J
7.	ALKYNE	21.07	600	JB
8.	UNKNOWN	21.44	10	J
9.	UNKNOWN	21.78	5	J
10.	UNKNOWN	22.38	20	J
11.	UNKNOWN	22.86	10	J

1B
SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

SMC-W3D-01

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

5

Matrix: WATER Lab Sample ID: 9012L015-022

Sample wt/vol: 920 (g/mL) ML Lab File ID: J012505

Level: (low/med) LOW Date Received: 12/19/90

% Moisture: not dec. _____ dec. Date Extracted: 12/21/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 01/25/91

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
108-95-2	Phenol	11	U
111-44-4	bis(2-Chloroethyl)ether	11	U
95-57-8	2-Chlorophenol	11	U
541-73-1	1,3-Dichlorobenzene	11	U
106-46-7	1,4-Dichlorobenzene	11	U
100-51-6	Benzyl alcohol	11	U
95-50-1	1,2-Dichlorobenzene	11	U
95-48-7	2-Methylphenol	11	U
108-60-1	bis(2-Chloroisopropyl)ether	11	U
106-44-5	4-Methylphenol	11	U
621-64-7	N-Nitroso-Di-n-propylamine	11	U
67-72-1	Hexachloroethane	11	U
98-95-3	Nitrobenzene	11	U
78-59-1	Isophorone	11	U
88-75-5	2-Nitrophenol	11	U
105-67-9	2,4-Dimethylphenol	11	U
65-85-0	Benzoic acid	55	U
111-91-1	bis(2-Chloroethoxy)methane	11	U
120-83-2	2,4-Dichlorophenol	11	U
120-82-1	1,2,4-Trichlorobenzene	11	U
91-20-3	Naphthalene	11	U
106-47-8	4-Chloroaniline	11	U
87-68-3	Hexachlorobutadiene	11	U
59-50-7	4-Chloro-3-methylphenol	11	U
91-57-6	2-Methylnaphthalene	11	U
77-47-4	Hexachlorocyclopentadiene	11	U
88-06-2	2,4,6-Trichlorophenol	11	U
95-95-4	2,4,5-Trichlorophenol	55	U
91-58-7	2-Chloronaphthalene	11	U
88-74-4	2-Nitroaniline	55	U
131-11-3	Dimethylphthalate	11	U
208-96-8	Acenaphthylene	11	U
606-20-2	2,6-Dinitrotoluene	11	U

1C
SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

SMC-W3D-01

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER Lab Sample ID: 9012L015-022

Sample wt/vol: 920 (g/mL) ML Lab File ID: J012505

Level: (low/med) LOW Date Received: 12/19/90

% Moisture: not dec. _____ dec. Date Extracted: 12/21/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 01/25/91

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
99-09-2	3-Nitroaniline	55	U
83-32-9	Acenaphthene	11	U
51-28-5	2,4-Dinitrophenol	55	U
100-02-7	4-Nitrophenol	55	U
132-64-9	Dibenzofuran	11	U
121-14-2	2,4-Dinitrotoluene	11	U
84-66-2	Diethylphthalate	11	U
7005-72-3	4-Chlorophenyl-phenylether	11	U
86-73-7	Fluorene	11	U
100-01-6	4-Nitroaniline	55	U
534-52-1	4,6-Dinitro-2-methylphenol	55	U
86-30-6	N-Nitrosodiphenylamine (1)	11	U
101-55-3	4-Bromophenyl-phenylether	11	U
118-74-1	Hexachlorobenzene	11	U
87-86-5	Pentachlorophenol	55	U
85-01-8	Phenanthrene	11	U
120-12-7	Anthracene	11	U
84-74-2	Di-n-Butylphthalate	11	U
206-44-0	Fluoranthene	11	U
129-00-0	Pyrene	11	U
85-68-7	Butylbenzylphthalate	11	U
91-94-1	3,3'-Dichlorobenzidine	22	U
56-55-3	Benzo(a)anthracene	11	U
218-01-9	Chrysene	11	U
117-81-7	bis(2-Ethylhexyl)phthalate	11	U
117-84-0	Di-n-Octyl phthalate	11	U
205-99-2	Benzo(b)fluoranthene	11	U
207-08-9	Benzo(k)fluoranthene	11	U
50-32-8	Benzo(a)pyrene	11	U
193-39-5	Indeno(1,2,3-cd)pyrene	11	U
53-70-3	Dibenzo(a,h)anthracene	11	U
191-24-2	Benzo(g,h,i)perylene	11	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SMC-W3D-01

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

5

Matrix: WATER

Lab Sample ID: 9012L015-022

Sample wt/vol: 920 (g/mL) ML

Lab File ID: J012505

Level: (low/med) LOW

Date Received: 12/19/90

% Moisture: not dec. _____ dec.

Date Extracted: 12/21/90

Extraction: (SepF/Cont/Sonc) SEPF

Date Analyzed: 01/25/91

GPC Cleanup: (Y/N) N pH: 7.0

Dilution Factor: 1.00

Number TICs found: 6

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	ALKYNE	21.07	200	JB
2.	UNKNOWN	22.43	7	J
3.	ALKANE	23.07	4	J
4.	ALKANE	23.77	7	J
5.	ALKANE	24.59	9	J
6.	ALKANE	25.54	10	J

1B
SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

SMC-SC27S-01

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER Lab Sample ID: 9012L015-024

7

Sample wt/vol: 990 (g/mL) ML Lab File ID: J012506

Level: (low/med) LOW Date Received: 12/19/90

% Moisture: not dec. _____ dec. Date Extracted: 12/21/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 01/25/91

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	bis(2-Chloroisopropyl)ether	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic acid	50	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U

1C
SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

SMC-SC27S-01

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER Lab Sample ID: 9012L015-024

Sample wt/vol: 990 (g/mL) ML Lab File ID: J012506

Level: (low/med) LOW Date Received: 12/19/90

% Moisture: not dec. _____ dec. Date Extracted: 12/21/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 01/25/91

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-Octyl phthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SMC-SC27S-01

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9012L015-024

Sample wt/vol: 990 (g/mL) ML

Lab File ID: J012506

Level: (low/med) LOW

Date Received: 12/19/90

% Moisture: not dec. _____ dec.

Date Extracted: 12/21/90

Extraction: (SepF/Cont/Sonc) SEPF

Date Analyzed: 01/25/91

GPC Cleanup: (Y/N) N pH: 7.0

Dilution Factor: 1.00

Number TICs found: 17

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	7.12	60	JB
2.	UNKNOWN	19.60	20	J
3.	ALKANE	19.72	30	JB
4.	UNKNOWN	20.36	5	J
5.	UNKNOWN	20.42	10	J
6.	UNKNOWN	20.62	10	J
7.	ALKYNE	21.07	800	JB
8.	UNKNOWN	21.42	20	J
9.	UNKNOWN	21.52	20	J
10.	ALKYNE	21.64	10	J
11.	UNKNOWN	21.76	9	J
12.	UNKNOWN	22.26	5	J
13.	UNKNOWN	22.36	30	J
14.	ALKYNE	22.84	20	J
15.	UNKNOWN	23.03	5	J
16.	UNKNOWN	25.00	6	J
17.	UNKNOWN	25.19	4	J

1B
SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

SMC-G1S-01

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER Lab Sample ID: 9012L015-027

Sample wt/vol: 990 (g/mL) ML Lab File ID: J012507

Level: (low/med) LOW Date Received: 12/19/90

% Moisture: not dec. _____ dec. Date Extracted: 12/21/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 01/25/91

GPC Cleanup: (Y/N) N pH: 8.0 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
108-95-2	Phenol	1	J
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	bis(2-Chloroisopropyl)ether	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic acid	50	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

SMC-G1S-01

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER Lab Sample ID: 9012L015-027

Sample wt/vol: 990 (g/mL) ML Lab File ID: J012507

Level: (low/med) LOW Date Received: 12/19/90

% Moisture: not dec. _____ dec. Date Extracted: 12/21/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 01/25/91

GPC Cleanup: (Y/N) N pH: 8.0 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	2	J
117-84-0	Di-n-Octyl phthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SMC-G1S-01

10

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9012L015-027

Sample wt/vol: 990 (g/mL) ML

Lab File ID: J012507

Level: (low/med) LOW

Date Received: 12/19/90

% Moisture: not dec. _____ dec.

Date Extracted: 12/21/90

Extraction: (SepF/Cont/Sonc) SEPF

Date Analyzed: 01/25/91

GPC Cleanup: (Y/N) N pH: 8.0

Dilution Factor: 1.00

Number TICs found: 12

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	7.16	40	JB
2.	UNKNOWN	19.65	6	J
3.	ALKENE	19.78	10	JB
4.	UNKNOWN	20.52	20	J
5.	ALKYNE	21.07	400	JB
6.	UNKNOWN	21.53	8	J
7.	UNKNOWN	21.65	7	J
8.	UNKNOWN	22.37	20	J
9.	ALKYNE	22.85	20	J
10.	UNKNOWN	23.05	4	J
11.	UNKNOWN	23.35	5	J
12.	UNKNOWN	25.04	20	J

1B
SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

SMC-W3S-01

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

124

Matrix: WATER Lab Sample ID: 9012L015-031

Sample wt/vol: 990 (g/mL) ML Lab File ID: J012508

Level: (low/med) LOW Date Received: 12/19/90

% Moisture: not dec. _____ dec. Date Extracted: 12/21/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 01/25/91

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	bis(2-Chloroisopropyl)ether	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic acid	50	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

SMC-W3S-01

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9012L015-031

Sample wt/vol: 990 (g/mL) ML

Lab File ID: J012508

Level: (low/med) LOW

Date Received: 12/19/90

% Moisture: not dec. _____ dec.

Date Extracted: 12/21/90

Extraction: (SepF/Cont/Sonc) SEPF

Date Analyzed: 01/25/91

GPC Cleanup: (Y/N) N pH: 7.0

Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	1	J
117-84-0	Di-n-Octyl phthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SMC-W3S-01

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

1-6

Matrix: WATER Lab Sample ID: 9012L015-031

Sample wt/vol: 990 (g/mL) ML Lab File ID: J012508

Level: (low/med) LOW Date Received: 12/19/90

% Moisture: not dec. _____ dec. Date Extracted: 12/21/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 01/25/91

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

Number TICs found: 14

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	7.15	40	JB
2.	ALKYNE	19.62	10	J
3.	ALKENE	19.75	20	JB
4.	UNKNOWN	20.46	10	J
5.	UNKNOWN	20.64	6	J
6.	ALKYNE	21.08	600	JB
7.	UNKNOWN	21.44	10	J
8.	UNKNOWN	21.53	10	J
9.	UNKNOWN	21.65	10	J
10.	UNKNOWN	21.79	7	J
11.	UNKNOWN	22.38	30	J
12.	UNKNOWN	22.86	20	J
13.	UNKNOWN	23.05	4	J
14.	UNKNOWN	25.02	5	J

Roy F. Weston, Inc. - Lionville Laboratory
BNA ANALYTICAL DATA PACKAGE FOR
TRC/SHIELDALLOY

DATE RECEIVED: 12/21/90 RFW LOT # :9012L031

CLIENT ID	RFW #		MTX	PREP #	COLLECTION	EXTR/PREP	ANALYSIS
SMC-SC13D-01	003		W	90LE1513	12/20/90	12/26/90	01/28/91
SMC-FB-1220	006		W	90LE1513	12/20/90	12/26/90	01/30/91
SMC-IWC5-01	007		W	90LE1513	12/20/90	12/26/90	01/28/91
SMC-IWC2-01	010		W	90LE1513	12/20/90	12/26/90	01/28/91
SMC-SC22S-01	012		W	90LE1513	12/20/90	12/26/90	01/28/91
SMC-SC22D-01	014		W	90LE1513	12/20/90	12/26/90	01/28/91
SMC-SC22D-01	014	R1	W	91LE0154	12/20/90	02/12/91	02/15/91
SMC-G2D-01	032		W	90LE1513	12/20/90	12/26/90	01/28/91
LAB QC:							
SBLK	MB1		W	90LE1513	N/A	12/26/90	01/28/91
SBLK	MB1	BS	W	90LE1513	N/A	12/26/90	01/28/91
SBLK	MB1	BSD	W	90LE1513	N/A	12/26/90	01/28/91
SBLK	MB1		W	91LE0154	N/A	02/12/91	02/25/91

ROY F. WESTON, INC.
Lionville Laboratory

CLIENT: TRC/SHIELD ALLOY **SAMPLES RECEIVED:** 12-21-90
RFW #: 9012L031, SEMIVOLATILE
W.O. #: 2724-05-01

NARRATIVE

The set of samples consisted of seven (7) water samples collected on 12-20-90.

The samples were extracted on 12-26-90 and 02-12-91 and analyzed according to criteria set forth in CLP SOW 02/88 (Rev. 05/89) for TCL Semivolatile target compounds on 01-28,30-91 and 02-15,25-91.

The following is a summary of the QC results accompanying these sample results and a description of any problems encountered during their analysis:

1. Sample SMC-SC22D-01 was re-extracted outside the holding time.

2. Non-target compounds were detected in these samples.

3. Fourteen (14) of seventy-two (72) surrogate recoveries were outside EPA QC limits; however, EPA CLP surrogate recovery criteria were met (i.e., no more than one outlier per fraction (acid and base neutral) and no recoveries less than 10%).

   EPA CLP surrogate recovery criteria were not met for samples SMC-SS22D-01, 90LE1513-MB1 BS, and 90LE1513-MB1 BSD. The sample SMC-SS22D-01 was re-extracted and re-analyzed on 02-15-91 and reported. The original analysis of sample 90LE1513-MB1 fulfilled its re-analysis requirement.

4. Seven (7) of twenty-two (22) blank spike recoveries were outside EPA QC limits.

WESTON

5. The blank spike and blank spike duplicate did not meet internal standard area criteria; however the original analysis of the blank fulfilled its re-analysis requirement.

Jack R. Tuschall, Ph.D.
Laboratory Manager
Lionville Analytical Laboratory

Date

WESTON

GLOSSARY OF BNA DATA

DATA QUALIFIERS

U = Compound was analyzed for but not detected. The associated numerical value is the estimated sample quantitation limit which is included and corrected for dilution and percent moisture.

J = Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicate the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero; for example, if the limit of detection is 10 ug/L and a concentration of 3 ug/L is calculated, it is reported as 3J.

B = This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates possible/probable blank contamination. This flag is also used for a TIC as well as for a positively identified TCL compound.

E = Indicates that the compound was detected beyond the calibration range and was subsequently analyzed at a dilution.

I = Interference.

A = Aldol Condensation Product.

X = Additional qualifiers used as required are explained in the case narrative.

NQ = Result qualitatively confirmed but not able to quantify.

ABBREVIATIONS

BS = Indicates blank spike in which reagent grade water is spiked with the CLP matrix spiking solutions and carried through all the steps in the method. Spike recoveries are reported.

BSD = Indicates blank spike duplicate.

MS = Indicates matrix spike.

MSD = Indicates matrix spike duplicate.

DL = Indicates that surrogate recoveries were not obtained because the extract had to be diluted for analysis.

NA = Not applicable.

DF = Dilution factor.

NR = Not required.

1B
SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

SMC-SC13D-01

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER Lab Sample ID: 9012L031-003

Sample wt/vol: 990 (g/mL) ML Lab File ID: L012808

Level: (low/med) LOW Date Received: 12/21/90

% Moisture: not dec. _____ dec. Date Extracted: 12/26/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 01/28/91

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	bis(2-Chloroisopropyl)ether	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic acid	50	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U

1C
SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

SMC-SC13D-01

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER Lab Sample ID: 9012L031-003

Sample wt/vol: 990 (g/mL) ML Lab File ID: L012808

Level: (low/med) LOW Date Received: 12/21/90

% Moisture: not dec. _____ dec. Date Extracted: 12/26/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 01/28/91

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	4	J
117-84-0	Di-n-Octyl phthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SMC-SC13D-01

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

(nt: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9012L031-003

Sample wt/vol: 990 (g/mL) ML

Lab File ID: L012808

Level: (low/med) LOW

Date Received: 12/21/90

% Moisture: not dec. _____ dec.

Date Extracted: 12/26/90

Extraction: (SepF/Cont/Sonc) SEPF

Date Analyzed: 01/28/91

GPC Cleanup: (Y/N) N pH: 7.0

Dilution Factor: 1.00

Number TICs found: 1

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	ALKANE	19.95	200	JB

1B
SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO. 02

SMC-IWC5-01

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER Lab Sample ID: 9012L031-007

Sample wt/vol: 970 (g/mL) ML Lab File ID: L012810

Level: (low/med) LOW Date Received: 12/21/90

% Moisture: not dec. _____ dec. Date Extracted: 12/26/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 01/28/91

GPC Cleanup: (Y/N) N pH: 8.0 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	bis(2-Chloroisopropyl)ether	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic acid	50	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

SMC-IWC5-01

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9012L031-007

Sample wt/vol: 970 (g/mL) ML

Lab File ID: L012810

Level: (low/med) LOW

Date Received: 12/21/90

% Moisture: not dec. _____ dec.

Date Extracted: 12/26/90

Extraction: (SepF/Cont/Sonc) SEPF

Date Analyzed: 01/28/91

GPC Cleanup: (Y/N) N pH: 8.0

Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-Octyl phthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SMC-IWC5-01

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER Lab Sample ID: 9012L031-007

Sample wt/vol: 970 (g/mL) ML Lab File ID: L012810

Level: (low/med) LOW Date Received: 12/21/90

% Moisture: not dec. _____ dec. Date Extracted: 12/26/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 01/28/91

GPC Cleanup: (Y/N) N pH: 8.0 Dilution Factor: 1.00

Number TICs found: 1

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	ALKANE	19.97	400	JB

1B
SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

SMC-IWC2-01

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER Lab Sample ID: 9012L031-010

Sample wt/vol: 920 (g/mL) ML Lab File ID: L012811

Level: (low/med) LOW Date Received: 12/21/90

% Moisture: not dec. _____ dec. Date Extracted: 12/26/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 01/28/91

GPC Cleanup: (Y/N) N pH: 8.0 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
108-95-2	Phenol	11	U
111-44-4	bis(2-Chloroethyl)ether	11	U
95-57-8	2-Chlorophenol	11	U
541-73-1	1,3-Dichlorobenzene	11	U
106-46-7	1,4-Dichlorobenzene	11	U
100-51-6	Benzyl alcohol	11	U
95-50-1	1,2-Dichlorobenzene	11	U
95-48-7	2-Methylphenol	11	U
108-60-1	bis(2-Chloroisopropyl)ether	11	U
106-44-5	4-Methylphenol	11	U
621-64-7	N-Nitroso-Di-n-propylamine	11	U
67-72-1	Hexachloroethane	11	U
98-95-3	Nitrobenzene	11	U
78-59-1	Isophorone	11	U
88-75-5	2-Nitrophenol	11	U
105-67-9	2,4-Dimethylphenol	11	U
65-85-0	Benzoic acid	55	U
111-91-1	bis(2-Chloroethoxy)methane	11	U
120-83-2	2,4-Dichlorophenol	11	U
120-82-1	1,2,4-Trichlorobenzene	11	U
91-20-3	Naphthalene	11	U
106-47-8	4-Chloroaniline	11	U
87-68-3	Hexachlorobutadiene	11	U
59-50-7	4-Chloro-3-methylphenol	11	U
91-57-6	2-Methylnaphthalene	11	U
77-47-4	Hexachlorocyclopentadiene	11	U
88-06-2	2,4,6-Trichlorophenol	11	U
95-95-4	2,4,5-Trichlorophenol	55	U
91-58-7	2-Chloronaphthalene	11	U
88-74-4	2-Nitroaniline	55	U
131-11-3	Dimethylphthalate	11	U
208-96-8	Acenaphthylene	11	U
606-20-2	2,6-Dinitrotoluene	11	U

1C
SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

SMC-IWC2-01

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER Lab Sample ID: 9012L031-010

Sample wt/vol: 920 (g/mL) ML Lab File ID: L012811

Level: (low/med) LOW Date Received: 12/21/90

% Moisture: not dec. _____ dec. Date Extracted: 12/26/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 01/28/91

GPC Cleanup: (Y/N) N pH: 8.0 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
99-09-2	3-Nitroaniline	55	U
83-32-9	Acenaphthene	11	U
51-28-5	2,4-Dinitrophenol	55	U
100-02-7	4-Nitrophenol	55	U
132-64-9	Dibenzofuran	11	U
121-14-2	2,4-Dinitrotoluene	11	U
84-66-2	Diethylphthalate	11	U
7005-72-3	4-Chlorophenyl-phenylether	11	U
86-73-7	Fluorene	11	U
100-01-6	4-Nitroaniline	55	U
534-52-1	4,6-Dinitro-2-methylphenol	55	U
86-30-6	N-Nitrosodiphenylamine (1)	11	U
101-55-3	4-Bromophenyl-phenylether	11	U
118-74-1	Hexachlorobenzene	11	U
87-86-5	Pentachlorophenol	55	U
85-01-8	Phenanthrene	11	U
120-12-7	Anthracene	11	U
84-74-2	Di-n-Butylphthalate	11	U
206-44-0	Fluoranthene	11	U
129-00-0	Pyrene	11	U
85-68-7	Butylbenzylphthalate	11	U
91-94-1	3,3'-Dichlorobenzidine	22	U
56-55-3	Benzo(a)anthracene	11	U
218-01-9	Chrysene	11	U
117-81-7	bis(2-Ethylhexyl)phthalate	6	J
117-84-0	Di-n-Octyl phthalate	11	U
205-99-2	Benzo(b)fluoranthene	11	U
207-08-9	Benzo(k)fluoranthene	11	U
50-32-8	Benzo(a)pyrene	11	U
193-39-5	Indeno(1,2,3-cd)pyrene	11	U
53-70-3	Dibenzo(a,h)anthracene	11	U
191-24-2	Benzo(g,h,i)perylene	11	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SMC-IWC2-01

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9012L031-010

Sample wt/vol: 920 (g/mL) ML

Lab File ID: L012811

Level: (low/med) LOW

Date Received: 12/21/90

% Moisture: not dec. _____ dec.

Date Extracted: 12/26/90

Extraction: (SepF/Cont/Sonc) SEPF

Date Analyzed: 01/28/91

GPC Cleanup: (Y/N) N pH: 8.0

Dilution Factor: 1.00

Number TICs found: 1

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	ALKANE	19.97	100	JB

1B
SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

SMC-SC22S-01

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER Lab Sample ID: 9012L031-012

Sample wt/vol: 970 (g/mL) ML Lab File ID: L012812

Level: (low/med) LOW Date Received: 12/21/90

% Moisture: not dec. _____ dec. Date Extracted: 12/26/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 01/28/91

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	bis(2-Chloroisopropyl)ether	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic acid	50	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U

1C
SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

SMC-SC22S-01

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER Lab Sample ID: 9012L031-012

Sample wt/vol: 970 (g/mL) ML Lab File ID: L012812

Level: (low/med) LOW Date Received: 12/21/90

% Moisture: not dec. _____ dec. Date Extracted: 12/26/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 01/28/91

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-Octyl phthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SMC-SC22S-01

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9012L031-012

Sample wt/vol: 970 (g/mL) ML

Lab File ID: L012812

Level: (low/med) LOW

Date Received: 12/21/90

% Moisture: not dec. _____ dec.

Date Extracted: 12/26/90

Extraction: (SepF/Cont/Sonc) SEPF

Date Analyzed: 01/28/91

GPC Cleanup: (Y/N) N pH: 7.0

Dilution Factor: 1.00

Number TICs found: 2

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	5.83	20	J
2.	ALKANE	19.97	200	JB

1B
SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

SMC-SC22D-01

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER Lab Sample ID: 9012L031-014

Sample wt/vol: 960 (g/mL) ML Lab File ID: L012813

Level: (low/med) LOW Date Received: 12/21/90

% Moisture: not dec. _____ dec. Date Extracted: 12/26/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 01/28/91

GPC Cleanup: (Y/N) N pH: 10 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	bis(2-Chloroisopropyl)ether	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic acid	50	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U

1C
SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

89

SMC-SC22D-01

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER Lab Sample ID: 9012L031-014

Sample wt/vol: 960 (g/mL) ML Lab File ID: L012813

Level: (low/med) LOW Date Received: 12/21/90

% Moisture: not dec. _____ dec. Date Extracted: 12/26/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 01/28/91

GPC Cleanup: (Y/N) N pH: 10 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-Octyl phthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SMC-SC22D-01

90

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9012L031-014

Sample wt/vol: 960 (g/mL) ML

Lab File ID: L012813

Level: (low/med) LOW

Date Received: 12/21/90

% Moisture: not dec. _____ dec.

Date Extracted: 12/26/90

Extraction: (SepF/Cont/Sonc) SEPF

Date Analyzed: 01/28/91

GPC Cleanup: (Y/N) N pH: 10

Dilution Factor: 1.00

Number TICs found: 2

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	19.95	200	JB
2.	UNKNOWN	20.08	10	J

1B
SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

SMC-SC22D-01RE

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER Lab Sample ID: 9012L031-014

Sample wt/vol: 990 (g/mL) ML Lab File ID: L021505

Level: (low/med) LOW Date Received: 12/21/90

% Moisture: not dec. _____ dec. Date Extracted: 02/12/91

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 02/15/91

GPC Cleanup: (Y/N) N pH: 10 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	bis(2-Chloroisopropyl)ether	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic acid	50	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U

1C
SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

SMC-SC22D-01RE 100

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER Lab Sample ID: 9012L031-014

Sample wt/vol: 990 (g/mL) ML Lab File ID: L021505

Level: (low/med) LOW Date Received: 12/21/90

% Moisture: not dec. _____ dec. Date Extracted: 02/12/91

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 02/15/91

GPC Cleanup: (Y/N) N pH: 10 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-Octyl phthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SMC-SC22D-01RE

101

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER Lab Sample ID: 9012L031-014

Sample wt/vol: 990 (g/mL) ML Lab File ID: L021505

Level: (low/med) LOW Date Received: 12/21/90

% Moisture: not dec. _____ dec. Date Extracted: 02/12/91

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 02/15/91

GPC Cleanup: (Y/N) N pH: 10 Dilution Factor: 1.00

Number TICs found: 4

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	5.52	20	J
2.	ALDOL	6.60	30	BJ
3.	UNKNOWN	11.05	5	J
4.	ORGANIC	20.70	300	JB

1B
SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

SMC-G2D-01

112

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER Lab Sample ID: 9012L031-032

Sample wt/vol: 960 (g/mL) ML Lab File ID: L012814

Level: (low/med) LOW Date Received: 12/21/90

% Moisture: not dec. _____ dec. Date Extracted: 12/26/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 01/28/91

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	bis(2-Chloroisopropyl)ether	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic acid	50	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

SMC-G2D-01

113

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER Lab Sample ID: 9012L031-032

Sample wt/vol: 960 (g/mL) ML Lab File ID: L012814

Level: (low/med) LOW Date Received: 12/21/90

% Moisture: not dec. _____ dec. Date Extracted: 12/26/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 01/28/91

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-Octyl phthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SMC-G2D-01

114

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

C ıt: TRC/SHIELDALLOY

Matrix: WATER Lab Sample ID: 9012L031-032

Sample wt/vol: 960 (g/mL) ML Lab File ID: L012814

Level: (low/med) LOW Date Received: 12/21/90

% Moisture: not dec. _____ dec. Date Extracted: 12/26/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 01/28/91

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

Number TICs found: 2

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	5.75	9	JB
2.	ALKANE	19.97	400	JB

Roy F. Weston, Inc. - Lionville Laboratory
PEST/PCB ANALYTICAL DATA PACKAGE FOR
TRC/SHIELDALLOY

DATE RECEIVED: 12/19/90 RFW LOT # :9012L015

CLIENT ID	RFW #	MTX	PREP #	COLLECTION	EXTR/PREP	ANALYSIS
SMC-FB-1219	014	W	90LE1502	12/19/90	12/21/90	01/30/91
SMC-SC20S-01	015	W	90LE1502	12/19/90	12/21/90	01/30/91
SMC-W3D-01	022	W	90LE1502	12/19/90	12/21/90	01/30/91
SMC-SC27S-01	024	W	90LE1502	12/19/90	12/21/90	01/30/91
SMC-G1S-01	027	W	90LE1502	12/19/90	12/21/90	01/30/91
SMC-W3S-01	031	W	90LE1502	12/19/90	12/21/90	01/30/91
LAB QC:						
PBLK	MB1	W	90LE1502	N/A	12/21/90	01/30/91
PBLK	MB1 BS	W	90LE1502	N/A	12/21/90	01/30/91
PBLK	MB1 BSD	W	90LE1502	N/A	12/21/90	01/30/91

ROY F. WESTON, INC.
Lionville Laboratory

CLIENT: TRC/SHIELDALLOY
RFW #: 9102L015, PEST/PCB
W.O. #: 2724-05-01

SAMPLES RECEIVED: 12-19-90

NARRATIVE

The set of samples consisted of six (6) water samples collected on 12-19-90.

The samples were extracted on 12-21-90 and analyzed according to criteria set forth in the Contract Laboratory Program for Pesticide and PCB target compounds on 01-30-91.

The following is a summary of the QC results accompanying these sample results and a description of any problems encountered during their analysis:

1. Linearity criteria were met for all compounds except 4,4'-DDT (RSD of calibration factors exceeds 10%). Target compounds were not identified in accompanying samples so quantitation was not required. Breakdown criteria were met for all Evaluation Mixes analyzed prior to sample extracts.

2. For continuing calibration standards analyzed prior to the sample extracts, the continuing calibration criteria were exceeded for the following compounds:

Compounds	Column	Date/Time of Analysis
Delta-BHC	SP2250/2401	01-30-91 at 04:26
Delta-BHC	SP2100	01-30-91 at 05:01
Dieldrin	SP2100	01-30-91 at 17:39
4,4'-DDT	SP2100	01-30-91 at 17:39

3. Retention time criteria were exceeded for several compounds. Larger retention time windows were used for the evaluation of the accompanying data.

4. One (1) of nine (9) surrogate recoveries was outside EPA QC limits. The DBC surrogate recovery for SMC-W3S-01 (8%) was below the EPA QC limit of 24%.

WESTON

5. Three (3) of twelve (12) blank spike recoveries were outside EPA QC limits. The blank spike recoveries for the following compounds were outside the EPA QC limits:

Compound Name	% Recovery	Limit
Dieldrin	128	126
Endrin	124	121
Dieldrin	134	126

High blank spike recoveries indicate the data could be biased high. Since target compounds were not detected the data was not affected.

6. The blank spike and spike duplicate required two-fold dilutions to obtain spike recoveries within the linear range of the instrument.

7. The results for the Evaluation Mix C analyzed on 01-29-91 at 15:03 were lost due to analyst error. This standard was re-analyzed on 01-29-91 at 23:31. This data was used to calculate linearity.

Jack R. Tuschall, Ph.D.
Laboratory Manager
Lionville Analytical Laboratory

4/10
Date

WESTON

GLOSSARY OF PEST/PCB DATA

DATA QUALIFIERS

U - Indicates that the compounds was analyzed for but not detected. The minimum detection limit for the sample (not the method detection limit) is reported with the U (e.g., 10U).

J - Indicates an estimated value. This flag is used in cases where a target analyte is detected at a level less than the lower quantification level. If the limit of quantification is 10 ug/L and a concentration of 3 ug/L is calculated, it is reported as 3J.

B - This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates possible/probable blank contamination. This flag is also used for a TIC as well as for a positively identified TCL compound.

E - Indicates that the compound was detected beyond the calibration range and was subsequently analyzed at a dilution.

I - Interference.

ABBREVIATIONS

BS - Indicates blank spike in which reagent grade water is spiked with the CLP matrix spiking solutions and carried through all the steps in the method. Spike recoveries are reported.

BSD - Indicates blank spike duplicate.

MS - Indicates matrix spike.

MSD - Indicates matrix spike duplicate.

DL - Indicates that recoveries were not obtained because the extract had to be diluted for analysis.

NA - Not applicable.

DF - Dilution factor.

NR - Not required.

Roy F. Weston, Inc. - Lionville Laboratory
Pesticide/PCBs by GC, CLP List

Report Date: 03/19/91 14:42

RFW Batch Number: 9012L015 Client: TRC/SHIELDALLOY Work Order: 2724-05-01-0000 Page: 1

Cust ID:	SMC-FB-1219		SMC-SC20S-01		SMC-W3D-01		SMC-SC27S-01		SMC-G1S-01		SMC-W3S-01	
Sample Information RFW#:	014		015		022		024		027		031	
Matrix:	WATER		WATER		WATER		WATER		WATER		WATER	
D.F.:	1.00		1.00		1.00		1.00		1.00		1.00	
Units:	ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
Surrogate: Di-n-butylchlorendate	69	%	83	%	86	%	51	%	73	%	8 *	%
		fl		fl		fl		fl		fl		fl
Alpha-BHC	0.054	U	0.054	U	0.056	U	0.050	U	0.054	U	0.054	U
Beta-BHC	0.054	U	0.054	U	0.056	U	0.050	U	0.054	U	0.054	U
Delta-BHC	0.054	U	0.054	U	0.056	U	0.050	U	0.054	U	0.054	U
gamma-BHC (Lindane)	0.054	U	0.054	U	0.056	U	0.050	U	0.054	U	0.054	U
Heptachlor	0.054	U	0.054	U	0.056	U	0.050	U	0.054	U	0.054	U
Aldrin	0.054	U	0.054	U	0.056	U	0.050	U	0.054	U	0.054	U
Heptachlor epoxide	0.054	U	0.054	U	0.056	U	0.050	U	0.054	U	0.054	U
Endosulfan I	0.054	U	0.054	U	0.056	U	0.050	U	0.054	U	0.054	U
Dieldrin	0.11	U	0.11	U	0.11	U	0.10	U	0.11	U	0.11	U
4,4'-DDE	0.11	U	0.11	U	0.11	U	0.10	U	0.11	U	0.11	U
Endrin	0.11	U	0.11	U	0.11	U	0.10	U	0.11	U	0.11	U
Endosulfan II	0.11	U	0.11	U	0.11	U	0.10	U	0.11	U	0.11	U
4,4'-DDD	0.11	U	0.11	U	0.11	U	0.10	U	0.11	U	0.11	U
Endosulfan sulfate	0.11	U	0.11	U	0.11	U	0.10	U	0.11	U	0.11	U
4,4'-DDT	0.11	U	0.11	U	0.11	U	0.10	U	0.11	U	0.11	U
Methoxychlor	0.54	U	0.54	U	0.56	U	0.50	U	0.54	U	0.54	U
Endrin ketone	0.11	U	0.11	U	0.11	U	0.10	U	0.11	U	0.11	U
alpha-Chlordane	0.54	U	0.54	U	0.56	U	0.50	U	0.54	U	0.54	U
gamma-Chlordane	0.54	U	0.54	U	0.56	U	0.50	U	0.54	U	0.54	U
Toxaphene	1.1	U	1.1	U	1.1	U	1.0	U	1.1	U	1.1	U
Aroclor-1016	0.54	U	0.54	U	0.56	U	0.50	U	0.54	U	0.54	U
Aroclor-1221	0.54	U	0.54	U	0.56	U	0.50	U	0.54	U	0.54	U
Aroclor-1232	0.54	U	0.54	U	0.56	U	0.50	U	0.54	U	0.54	U
Aroclor-1242	0.54	U	0.54	U	0.56	U	0.50	U	0.54	U	0.54	U
Aroclor-1248	0.54	U	0.54	U	0.56	U	0.50	U	0.54	U	0.54	U
Aroclor-1254	1.1	U	1.1	U	1.1	U	1.0	U	1.1	U	1.1	U
Aroclor-1260	1.1	U	1.1	U	1.1	U	1.0	U	1.1	U	1.1	U

U= Analyzed, not detected. J= Present below detection limit. B= Present in blank. NR= Not requested. NS= Not spiked.
%= Percent recovery. D= Diluted out. I= Interference. NA= Not Applicable. *= Outside of EPA CLP QC

	Cust ID:	PBLK	PBLK BS	PBLK BSD
Sample Information	RFW#:	90LE1502-MB1	90LE1502-MB1	90LE1502-MB1
	Matrix:	WATER	WATER	WATER
	D.F.:	1.00	2.00	2.00
	Units:	ug/L	ug/L	ug/L

Surrogate: Di-n-butylchlorendate	78	%	92	%	81	%
Alpha-BHC	0.050	U	0.10	U	0.10	U
Beta-BHC	0.050	U	0.10	U	0.10	U
Delta-BHC	0.050	U	0.10	U	0.10	U
gamma-BHC (Lindane)	0.050	U	100	%	75	%
Heptachlor	0.050	U	100	%	100	%
Aldrin	0.050	U	60	%	70	%
Heptachlor epoxide	0.050	U	0.10	U	0.10	U
Endosulfan I	0.050	U	0.10	U	0.10	U
Dieldrin	0.10	U	128 *	%	134 *	%
4,4'-DDE	0.10	U	0.20	U	0.20	U
Endrin	0.10	U	124 *	%	120	%
Endosulfan II	0.10	U	0.20	U	0.20	U
4,4'-DDD	0.10	U	0.20	U	0.20	U
Endosulfan sulfate	0.10	U	0.20	U	0.20	U
4,4'-DDT	0.10	U	112	%	70	%
Methoxychlor	0.50	U	1.0	U	1.0	U
Endrin ketone	0.10	U	0.20	U	0.20	U
alpha-Chlordane	0.50	U	1.0	U	1.0	U
gamma-Chlordane	0.50	U	1.0	U	1.0	U
Toxaphene	1.0	U	2.0	U	2.0	U
Aroclor-1016	0.50	U	1.0	U	1.0	U
Aroclor-1221	0.50	U	1.0	U	1.0	U
Aroclor-1232	0.50	U	1.0	U	1.0	U
Aroclor-1242	0.50	U	1.0	U	1.0	U
Aroclor-1248	0.50	U	1.0	U	1.0	U
Aroclor-1254	1.0	U	2.0	U	2.0	U
Aroclor-1260	1.0	U	2.0	U	2.0	U

U= Analyzed, not detected. J= Present below detection limit. B= Present in blank. NR= Not requested. NS= Not spiked.
%= Percent recovery. D= Diluted out. I= Interference. NA= Not Applicable. *= Outside of EPA CLP QC

t

Roy F. Weston, Inc. - Lionville Laboratory
PEST/PCB ANALYTICAL DATA PACKAGE FOR
TRC/SHIELDALLOY

DATE RECEIVED: 12/21/90 RFW LOT # :9012L031

CLIENT ID	RFW #	MTX	PREP #	COLLECTION	EXTR/PREP	ANALYSIS
SMC-SC13D-01	003	W	90LE1512	12/20/90	12/26/90	01/31/91
SMC-FB-1220	006	W	90LE1512	12/20/90	12/26/90	01/31/91
SMC-IWC5-01	007	W	90LE1512	12/20/90	12/26/90	01/31/91
SMC-IWC2-01	010	W	90LE1512	12/20/90	12/26/90	01/31/91
SMC-SC22S-01	012	W	90LE1512	12/20/90	12/26/90	01/31/91
SMC-SC22D-01	014	W	90LE1512	12/20/90	12/26/90	01/31/91
SMC-G2D-01	032	W	90LE1512	12/20/90	12/26/90	01/31/91
LAB QC:						
PBLK	MB1	W	90LE1512	N/A	12/26/90	01/31/91
PBLK	MB1 BS	W	90LE1512	N/A	12/26/90	01/31/91
PBLK	MB1 BSD	W	90LE1512	N/A	12/26/90	01/31/91

ROY F. WESTON, INC.
Lionville Laboratory

CLIENT: TRC/SHIELDALLOY **SAMPLES RECEIVED:** 12-21-90
RFW #: 9012L031, PEST/PCB
W.O. #: 2724-05-01

11

NARRATIVE

The set of samples consisted of seven (7) water samples collected on 12-20-90.

The samples were extracted on 12-26-90 and analyzed according to criteria set forth in the Contract Laboratory Program for Pesticide and PCB target compounds on 01-31-91.

The following is a summary of the QC results accompanying these sample results and a description of any problems encountered during their analysis:

1. Linearity and breakdown criteria were met for the primary column.

2. Continuing calibration criteria were exceeded for several compound but this occurred in standards analyzed after the sample extracts, so there was no re-analysis requirements.

3. Retention time criteria were met for all compounds on both the primary and confirmation column.

4. All surrogate recoveries were within EPA QC limits.

5. All blank spike recoveries were within EPA QC limits.

6. The blank spike samples required two-fold dilutions to obtain peaks within the linear range for the integrator and LIMS computer system.

Jack R. Tuschall, Ph.D.
Laboratory Manager
Lionville Analytical Laboratory

7-17-91
Date

1D
PESTICIDE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

SMC-SC13D-01

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER Lab Sample ID: 9012L031-003

Sample wt/vol: 990 (g/mL) ML Lab File ID: 01319113.16

Level: (low/med) LOW Date Received: 12/21/90

% Moisture: not dec. _____ dec. Date Extracted: 12/26/90

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 01/31/91

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
319-84-6	Alpha-BHC	0.050	U
319-85-7	Beta-BHC	0.050	U
319-86-8	Delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
5103-71-9	alpha-Chlordane	0.50	U
5103-74-2	gamma-Chlordane	0.50	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.50	U
11104-28-2	Aroclor-1221	0.50	U
11141-16-5	Aroclor-1232	0.50	U
53469-21-9	Aroclor-1242	0.50	U
12672-29-6	Aroclor-1248	0.50	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

1D
PESTICIDE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

SMC-IWC5-01

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER Lab Sample ID: 9012L031-007

Sample wt/vol: 990 (g/mL) ML Lab File ID: 01319113.20

Level: (low/med) LOW Date Received: 12/21/90

% Moisture: not dec. _____ dec. Date Extracted: 12/26/90

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 01/31/91

GPC Cleanup: (Y/N) N pH: 9.0 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
319-84-6	Alpha-BHC	0.050	U
319-85-7	Beta-BHC	0.050	U
319-86-8	Delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
5103-71-9	alpha-Chlordane	0.50	U
5103-74-2	gamma-Chlordane	0.50	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.50	U
11104-28-2	Aroclor-1221	0.50	U
11141-16-5	Aroclor-1232	0.50	U
53469-21-9	Aroclor-1242	0.50	U
12672-29-6	Aroclor-1248	0.50	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

1D
PESTICIDE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

SMC-IWC2-01

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER Lab Sample ID: 9012L031-010

Sample wt/vol: 990 (g/mL) ML Lab File ID: 01319113.21

Level: (low/med) LOW Date Received: 12/21/90

% Moisture: not dec. _____ dec. Date Extracted: 12/26/90

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 01/31/91

GPC Cleanup: (Y/N) N pH: 8.0 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
319-84-6	Alpha-BHC	0.050	U
319-85-7	Beta-BHC	0.050	U
319-86-8	Delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
5103-71-9	alpha-Chlordane	0.50	U
5103-74-2	gamma-Chlordane	0.50	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.50	U
11104-28-2	Aroclor-1221	0.50	U
11141-16-5	Aroclor-1232	0.50	U
53469-21-9	Aroclor-1242	0.50	U
12672-29-6	Aroclor-1248	0.50	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

1D
PESTICIDE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

SMC-SC22S-01

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER Lab Sample ID: 9012L031-012

Sample wt/vol: 990 (g/mL) ML Lab File ID: 01319113.22

Level: (low/med) LOW Date Received: 12/21/90

% Moisture: not dec. _____ dec. Date Extracted: 12/26/90

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 01/31/91

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
319-84-6	Alpha-BHC	0.050	U
319-85-7	Beta-BHC	0.050	U
319-86-8	Delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
5103-71-9	alpha-Chlordane	0.50	U
5103-74-2	gamma-Chlordane	0.50	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.50	U
11104-28-2	Aroclor-1221	0.50	U
11141-16-5	Aroclor-1232	0.50	U
53469-21-9	Aroclor-1242	0.50	U
12672-29-6	Aroclor-1248	0.50	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

1D
PESTICIDE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

SMC-SC22D-01

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER Lab Sample ID: 9012L031-014

Sample wt/vol: 990 (g/mL) ML Lab File ID: 01319113.23

Level: (low/med) LOW Date Received: 12/21/90

% Moisture: not dec. _____ dec. Date Extracted: 12/26/90

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 01/31/91

GPC Cleanup: (Y/N) N pH: 10 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
319-84-6	Alpha-BHC	0.050	U
319-85-7	Beta-BHC	0.050	U
319-86-8	Delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
5103-71-9	alpha-Chlordane	0.50	U
5103-74-2	gamma-Chlordane	0.50	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.50	U
11104-28-2	Aroclor-1221	0.50	U
11141-16-5	Aroclor-1232	0.50	U
53469-21-9	Aroclor-1242	0.50	U
12672-29-6	Aroclor-1248	0.50	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

1D
PESTICIDE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

SMC-G2D-01

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER Lab Sample ID: 9012L031-032

Sample wt/vol: 930 (g/mL) ML Lab File ID: 01319113.24

Level: (low/med) LOW Date Received: 12/21/90

% Moisture: not dec. _____ dec. Date Extracted: 12/26/90

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 01/31/91

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
319-84-6	Alpha-BHC	0.054	U
319-85-7	Beta-BHC	0.054	U
319-86-8	Delta-BHC	0.054	U
58-89-9	gamma-BHC (Lindane)	0.054	U
76-44-8	Heptachlor	0.054	U
309-00-2	Aldrin	0.054	U
1024-57-3	Heptachlor epoxide	0.054	U
959-98-8	Endosulfan I	0.054	U
60-57-1	Dieldrin	0.11	U
72-55-9	4,4'-DDE	0.11	U
72-20-8	Endrin	0.11	U
33213-65-9	Endosulfan II	0.11	U
72-54-8	4,4'-DDD	0.11	U
1031-07-8	Endosulfan sulfate	0.11	U
50-29-3	4,4'-DDT	0.11	U
72-43-5	Methoxychlor	0.54	U
53494-70-5	Endrin ketone	0.11	U
5103-71-9	alpha-Chlordane	0.54	U
5103-74-2	gamma-Chlordane	0.54	U
8001-35-2	Toxaphene	1.1	U
12674-11-2	Aroclor-1016	0.54	U
11104-28-2	Aroclor-1221	0.54	U
11141-16-5	Aroclor-1232	0.54	U
53469-21-9	Aroclor-1242	0.54	U
12672-29-6	Aroclor-1248	0.54	U
11097-69-1	Aroclor-1254	1.1	U
11096-82-5	Aroclor-1260	1.1	U

WESTON

Roy F. Weston, INC.
Lionville Laboratory

CLIENT: TRC/SHIELDALLOY **SAMPLES RECEIVED:** 12/18/90
RFW #: 9012L002
W.O.#: 0000-00-00

METALS NARRATIVE

The set of samples consisted of (28) water samples collected on 12/18/90.

The samples were analyzed according to criteria set forth in CLP SOW 7/87.

The following is a summary of the QC results accompanying these sample results and a description of any problems encountered during their analysis:

1. ICVs, CCVs, and LCSs stock standards were purchased from Inorganic Ventures Laboratory.

2. All ICV and CCV values were within control limits.

3. All ICB and CCB values were within control limits.

4. All preparation blank values were within control limits.

5. All LCS results were within the 80-120% control limits with the exception of Sb.

   Note: The USEPA has dropped control limits for antimony and silver due to documented difficulties in obtaining reliable results. WESTON Analytics has adopted the same policy.

6. All matrix spike recoveries were within the 75-125% control limits with the exception of Tl. All corresponding samples were flagged with an "N" according to CLP protocol.

7. All duplicate analyses were within the 20% RPD control limit.

WESTON

8. Arsenic, lead and selenium sample results were calculated by the method of standard addition (MSA). All corresponding samples were flagged with an "S according to CLP protocol.

Jack R. Tuschall, Ph.D.
Laboratory Manager
WESTON Analytical Laboratories

Date

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: WESTON-LIONVILLE Contract: 0000-00-00

Lab Code: WESTON Case No.: TRC SAS No.: SDG No.: CLP002

SOW No.: 07/87

EPA Sample No.	Lab Sample ID.
SMC-SC55-01	9012002001
SMC-SC55A-01	9012002002
SMC-SC5D-01	9012002003
SMC-SC5DA-01	9012002004
SMC-SCIW2-01	9012002005
SMC-SCIW2A-01	9012002006
SMC-SC245-01	9012002007
SMC-SC245A-01	9012002008
SMC-SC245A01D	9012002008
SMC-SC245A-01S	9012002008
SMC-SC265-01	9012002009
SMC-SC265A-01	9012002010
SMC-SC2D-01	9012002011
SMC-SC2DA-01	9012002012
SMC-FB-1218	9012002014
SMC-H-01	9012002016
SMC-HH-01	9012002017
SMC-SC255-01	9012002018
SMC-SC255A-01	9012002019
SMC-SC105-01	9012002020
SMC-SC105A-01	9012002021
SMC-SC105A-01D	9012002021
SMC-SC105A-01S	9012002021
SMC-SC10D-01	9012002022

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:

Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Lab Manager: _____

Date: _____

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: WESTON-LIONVILLE Contract: 0000-00-00

Lab Code: WESTON Case No.: TRC SAS No.: SDG No.: CLP002

SOW No.: 07/87

EPA Sample No.	Lab Sample ID.
SMC-SC10DA-01	9012002023
SMC-SC215-01	9012002026
SMC-SC215A-01	9012002027
SMC-SC21D-01	9012002028
SMC-SC21DA-01	9012002029
SMC-SC19D-01	9012002034
SMC-SC19DA-01	9012002035
SMC-RINSE-01	9012002030

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:

Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Lab Manager: [signature]

Date: 8/5/91

U.S. EPA - CLP

EPA SAMPLE NO.

1

INORGANIC ANALYSIS DATA SHEET

SMC-3055 01

Name: WESTON-LIONVILLE Contract: 0000-00-00

Lab Code: WESTON Case No.: TRC SAS No.: SDG No.: CLP002

Matrix (soil/water): WATER Lab Sample ID: 9012002001

Level (low/med): LOW Date Received: 12/18/90

% 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	1490			P
7440-36-0	Antimony	21.0	U		P
7440-38-2	Arsenic	2.0	U	W	F
7440-39-3	Barium	33.5	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	4.0	U		P
7440-70-2	Calcium	7560			P
7440-47-3	Chromium	3.0	U		P
7440-48-4	Cobalt	5.0	U		P
7440-50-8	Copper	5.0	U		P
7439-89-6	Iron	5630			P
7439-92-1	Lead	3.0	U	W	F
7439-95-4	Magnesium	1060	B		P
7439-96-5	Manganese	19.6			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	8.0	U		P
7440-09-7	Potassium	862	B		P
7782-49-2	Selenium	2.0	U	W	F
7440-22-4	Silver	5.0	U		P
7440-23-5	Sodium	2800	B	E	P
7440-28-0	Thallium	4.0	U	NW	F
7440-62-2	Vanadium	4.0	U		P
7440-66-6	Zinc	114			P
	Cyanide	10	U		C

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

EPA SAMPLE NO.

1

INORGANIC ANALYSIS DATA SHEET

SMC-5C59A-C1

Lab Name: WESTON-LIONVILLE Contract: 0000-00-00

Lab Code: WESTON Case No.: TRC SAS No.: SDG No.: CLP002

Matrix (soil/water): WATER Lab Sample ID: 9012002002

Level (low/med): LOW Date Received: 12/18/90

% 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	124	U		P
7440-36-0	Antimony	26.2	B		P
7440-38-2	Arsenic	2.0	U	W	F
7440-39-3	Barium	29.2	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	4.0	U		P
7440-70-2	Calcium	7920			P
7440-47-3	Chromium	3.0	U		P
7440-48-4	Cobalt	5.0	U		P
7440-50-8	Copper	5.0	U		P
7439-89-6	Iron	55.0	U		P
7439-92-1	Lead	3.0	U	W	F
7439-95-4	Magnesium	1060	B		P
7439-96-5	Manganese	18.3			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	8.0	U		P
7440-09-7	Potassium	818	B		P
7782-49-2	Selenium	2.0	U	W	F
7440-22-4	Silver	5.0	U		P
7440-23-5	Sodium	2780	B	E	P
7440-28-0	Thallium	4.0	U	N	F
7440-62-2	Vanadium	4.0	U		P
7440-66-6	Zinc	13.0	B		P
	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

EPA SAMPLE NO.

1

INORGANIC ANALYSIS DATA SHEET

SMC-SCSD-01

Lab Name: WESTON-LIONVILLE Contract: 0000-00-00

Lab Code: WESTON Case No.: TRC SAS No.: SDG No.: CLP002

Matrix (soil/water): WATER Lab Sample ID: 9012002003

Level (low/med): LOW Date Received: 12/18/90

% 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	135	B		P
7440-36-0	Antimony	21.0	U		P
7440-38-2	Arsenic	2.0	U	W	F
7440-39-3	Barium	211			P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	6.0			P
7440-70-2	Calcium	8890			P
7440-47-3	Chromium	6.0	B		P
7440-48-4	Cobalt	5.0	U		P
7440-50-8	Copper	13.3	B		P
7439-89-6	Iron	450			P
7439-92-1	Lead	21.9		S	F
7439-95-4	Magnesium	4020	B		P
7439-96-5	Manganese	43.5			P
7439-97-6	Mercury	4.5			CV
7440-02-0	Nickel	8.0	U		P
7440-09-7	Potassium	1880	B		P
7782-49-2	Selenium	2.6	B	W	F
7440-22-4	Silver	5.0	U		P
7440-23-5	Sodium	54300		E	P
7440-28-0	Thallium	4.0	U	NW	F
7440-62-2	Vanadium	4.0	U		P
7440-66-6	Zinc	51.5			P
	Cyanide	10	U		C

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

EPA SAMPLE NO.

1

INORGANIC ANALYSIS DATA SHEET

SMC-SC5DA-01

Lab Name: WESTON-LIONVILLE Contract: 0000-00-00

Lab Code: WESTON Case No.: TRC SAS No.: SDG No.: CLP002

Matrix (soil/water): WATER Lab Sample ID: 9Q12002004

Level (low/med): LOW Date Received: 12/18/90

% 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	124	U		P
7440-36-0	Antimony	21.0	U		P
7440-38-2	Arsenic	2.0	U	W	F
7440-39-3	Barium	154	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	4.0	U		P
7440-70-2	Calcium	3310	B		P
7440-47-3	Chromium	3.0	U		P
7440-48-4	Cobalt	5.0	U		P
7440-50-8	Copper	5.0	U		P
7439-89-6	Iron	55.0	U		P
7439-92-1	Lead	3.0	U	W	F
7439-95-4	Magnesium	3210	B		P
7439-96-5	Manganese	11.4	B		P
7439-97-6	Mercury	9.9			CV
7440-02-0	Nickel	8.0	U		P
7440-09-7	Potassium	2140	B		P
7782-49-2	Selenium	5.9		S	F
7440-22-4	Silver	5.2	B		P
7440-23-5	Sodium	76100		E	P
7440-28-0	Thallium	4.0	U	NW	F
7440-62-2	Vanadium	4.0	U		P
7440-66-6	Zinc	10.8	B		P
	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

EPA SAMPLE NO.

1

INORGANIC ANALYSIS DATA SHEET

sme-sc1ue2-01

Lab Name: WESTON-LIONVILLE Contract: 0000-00-00

Lab Code: WESTON Case No.: TRC SAS No.: SDG No.: CLP002

Matrix (soil/water): WATER Lab Sample ID: 9012002005

Level (low/med): LOW Date Received: 12/18/90

% 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	124	U		P
7440-36-0	Antimony	573			P
7440-38-2	Arsenic	2.0	U	W	F
7440-39-3	Barium	10.2	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	4.0	U		P
7440-70-2	Calcium	749	B		P
7440-47-3	Chromium	26400			P
7440-48-4	Cobalt	10.5	B		P
7440-50-8	Copper	5.2	B		P
7439-89-6	Iron	55.0	U		P
7439-92-1	Lead	3.0	U	S	F
7439-95-4	Magnesium	543	B		P
7439-96-5	Manganese	8.7	B		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	8.0	U		P
7440-09-7	Potassium	1040	B		P
7782-49-2	Selenium	7.5		S	F
7440-22-4	Silver	5.0	U		P
7440-23-5	Sodium	169000		E	P
7440-28-0	Thallium	4.0	U	NW	F
7440-62-2	Vanadium	36.3	B		P
7440-66-6	Zinc	15.0	B		P
	Cyanide	10.0	U		C

lor Before: COLORLESS Clarity Before: CLEAR Texture:

lor After: COLORLESS Clarity After: CLEAR Artifacts:

mments:

U.S. EPA - CLP

EPA SAMPLE NO.

smc-sc1wcr-01

1

INORGANIC ANALYSIS DATA SHEET

Lab Name: WESTON-LIONVILLE Contract: 0000-00-00

Lab Code: WESTON Case No.: TRC SAS No.: SDG No.: CLP002

Matrix (soil/water): WATER Lab Sample ID: 9012002006

Level (low/med): LOW Date Received: 12/18/90

% 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	124	U		P
7440-36-0	Antimony	615			P
7440-38-2	Arsenic	2.0	U	W	F
7440-39-3	Barium	8.9	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	4.0	U		P
7440-70-2	Calcium	783	B		P
7440-47-3	Chromium	26700			P
7440-48-4	Cobalt	11.3	B		P
7440-50-8	Copper	5.2	B		P
7439-89-6	Iron	55.0	U		P
7439-92-1	Lead	3.0	U	W	F
7439-95-4	Magnesium	550	B		P
7439-96-5	Manganese	6.4	B		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	8.0	U		P
7440-09-7	Potassium	816	U		P
7782-49-2	Selenium	7.7		S	F
7440-22-4	Silver	5.0	U		P
7440-23-5	Sodium	171000		E	P
7440-28-0	Thallium	4.0	U	NW	F
7440-62-2	Vanadium	35.6	B		P
7440-66-6	Zinc	15.0	B		P
	Cyanide				CE

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

EPA SAMPLE NO.

1

INORGANIC ANALYSIS DATA SHEET

SMC-SC245-01

Lab Name: WESTON-LIONVILLE Contract: 0000-00-00

Lab Code: WESTON Case No.: TRC SAS No.: SDG No.: CLP002

Matrix (soil/water): WATER Lab Sample ID: 9012002007

Level (low/med): LOW Date Received: 12/18/90

% 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	1890			P
7440-36-0	Antimony	21.0	U		P
7440-38-2	Arsenic	2.0	U	W	F
7440-39-3	Barium	247		E	P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	4.0	U		P
7440-70-2	Calcium	15900			P
7440-47-3	Chromium	19.3			P
7440-48-4	Cobalt	7.8	B		P
7440-50-8	Copper	5.8	B		P
7439-89-6	Iron	1440			P
7439-92-1	Lead	3.0	U	W	F
7439-95-4	Magnesium	11000			P
7439-96-5	Manganese	47.7			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	8.0	U		P
7440-09-7	Potassium	3000	B		P
7782-49-2	Selenium	2.0	U	W	F
7440-22-4	Silver	5.0	U		P
7440-23-5	Sodium	7940		E	P
7440-28-0	Thallium	4.0	U	NW	F
7440-62-2	Vanadium	4.0	U		P
7440-66-6	Zinc	24.3			P
	Cyanide	10.0	U		C

lor Before: COLORLESS Clarity Before: CLEAR Texture:

lor After: COLORLESS Clarity After: CLEAR Artifacts:

mments:

U.S. EPA - CLP

EPA SAMPLE NO.

1

INORGANIC ANALYSIS DATA SHEET

SME-SC245A-01

b Name: WESTON-LIONVILLE Contract: 0000-00-00

b Code: WESTON Case No.: TRC SAS No.: SDG No.: CLP002

trix (soil/water): WATER Lab Sample ID: 9012002008

vel (low/med): LOW Date Received: 12/18/90

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	1630			P
7440-36-0	Antimony	21.0	U		P
7440-38-2	Arsenic	2.0	U		F
7440-39-3	Barium	270			P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	4.0	U		P
7440-70-2	Calcium	17300			P
7440-47-3	Chromium	3.0	U		P
7440-48-4	Cobalt	10.0	B		P
7440-50-8	Copper	5.0	U		P
7439-89-6	Iron	55.0	U		P
7439-92-1	Lead	3.0	U		F
7439-95-4	Magnesium	11900			P
7439-96-5	Manganese	52.9			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	11.0	B		P
7440-09-7	Potassium	2450	B		P
7782-49-2	Selenium	2.0	U		F
7440-22-4	Silver	5.0	U		P
7440-23-5	Sodium	8320		E	P
7440-28-0	Thallium	4.0	U	NW	F
7440-62-2	Vanadium	4.0	U		P
7440-66-6	Zinc	14.9	B		P
	Cyanide				NR

lor Before: COLORLESS Clarity Before: CLEAR Texture:

lor After: COLORLESS Clarity After: CLEAR Artifacts:

mments:

U.S. EPA - CLP

6.1

EPA SAMPLE NO.

smc-sca05-01

1

INORGANIC ANALYSIS DATA SHEET

Lab Name: WESTON-LIONVILLE Contract: 0000-00-00

Lab Code: WESTON Case No.: TRC SAS No.: SDG No.: CLP002

Matrix (soil/water): WATER Lab Sample ID: 9012002009

Level (low/med): LOW Date Received: 12/18/90

% 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	124	U		P
7440-36-0	Antimony	21.0	U		P
7440-38-2	Arsenic	2.0	U	W	F
7440-39-3	Barium	45.2	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	4.0	U		P
7440-70-2	Calcium	3760	B		P
7440-47-3	Chromium	3.0	U		P
7440-48-4	Cobalt	5.0	U		P
7440-50-8	Copper	9.8	B		P
7439-89-6	Iron	75.5	B		P
7439-92-1	Lead	3.0	U		F
7439-95-4	Magnesium	1010	B		P
7439-96-5	Manganese	8.9	B		P
7439-97-6	Mercury	0.86			CV
7440-02-0	Nickel	8.0	U		P
7440-09-7	Potassium	1930	B		P
7782-49-2	Selenium	16.8		S	F
7440-22-4	Silver	5.0	U		P
7440-23-5	Sodium	77000		E	P
7440-28-0	Thallium	4.0	U	NW	F
7440-62-2	Vanadium	4.0	U		P
7440-66-6	Zinc	12.6	B		P
	Cyanide	10.0	U		C

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

EPA SAMPLE NO.

1

INORGANIC ANALYSIS DATA SHEET

SMC-SC2005A-01

Lab Name: WESTON-LIONVILLE Contract: 0000-00-00

Lab Code: WESTON Case No.: TRC SAS No.: SDG No.: CLP002

Matrix (soil/water): WATER Lab Sample ID: 9012002010

Level (low/med): LOW Date Received: 12/18/90

% 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	124	U		P
7440-36-0	Antimony	21.0	U		P
7440-38-2	Arsenic	2.0	U	W	F
7440-39-3	Barium	42.9	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	4.0	U		P
7440-70-2	Calcium	2950	B		P
7440-47-3	Chromium	3.0	U		P
7440-48-4	Cobalt	5.0	U		P
7440-50-8	Copper	5.0	U		P
7439-89-6	Iron	55.0	U		P
7439-92-1	Lead	3.0	U		F
7439-95-4	Magnesium	996	B		P
7439-96-5	Manganese	5.2	B		P
7439-97-6	Mercury	1.2			CV
7440-02-0	Nickel	8.0	U		P
7440-09-7	Potassium	1560	B		P
7782-49-2	Selenium	9.2		S	F
7440-22-4	Silver	5.0	U		P
7440-23-5	Sodium	79700		E	P
7440-28-0	Thallium	4.0	U	NW	F
7440-62-2	Vanadium	4.0	U		P
7440-66-6	Zinc	10.7	B		P
	Cyanide				NC

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

EPA SAMPLE NO.

1

INORGANIC ANALYSIS DATA SHEET

SMC-SCZD-01

Lab Name: WESTON-LIONVILLE Contract: 0000-00-00

Lab Code: WESTON Case No.: TRC SAS No.: SDG No.: CLP002

Matrix (soil/water): WATER Lab Sample ID: 9012002011

Level (low/med): LOW Date Received: 12/18/90

% 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	124	U		P
7440-36-0	Antimony	21.0	U		P
7440-38-2	Arsenic	2.0	U	W	F
7440-39-3	Barium	43.9	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	4.0	U		P
7440-70-2	Calcium	3270	B		P
7440-47-3	Chromium	3.0	U		P
7440-48-4	Cobalt	5.0	U		P
7440-50-8	Copper	5.5	B		P
7439-89-6	Iron	59.3	B		P
7439-92-1	Lead	3.0	U		F
7439-95-4	Magnesium	990	B		P
7439-96-5	Manganese	6.3	B		P
7439-97-6	Mercury	1.1			CV
7440-02-0	Nickel	8.0	U		P
7440-09-7	Potassium	1300	B		P
7782-49-2	Selenium	11.7		S	F
7440-22-4	Silver	5.0	U		P
7440-23-5	Sodium	77900		E	P
7440-28-0	Thallium	4.0	U	NW	F
7440-62-2	Vanadium	4.0	U		P
7440-66-6	Zinc	9.2	B		P
	Cyanide	10.0	U		C

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

EPA SAMPLE NO.

1

INORGANIC ANALYSIS DATA SHEET

SMC-SCDA01

Lab Name: WESTON-LIONVILLE Contract: 0000-00-00

Lab Code: WESTON Case No.: TRC SAS No.: SDG No.: CLP002

Matrix (soil/water): WATER Lab Sample ID: 9012002012

Level (low/med): LOW Date Received: 12/18/90

% 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	124	U		P
7440-36-0	Antimony	21.0	U		P
7440-38-2	Arsenic	2.0	U	W	F
7440-39-3	Barium	42.7	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	4.0	U		P
7440-70-2	Calcium	2760	B		P
7440-47-3	Chromium	3.0	U		P
7440-48-4	Cobalt	5.0	U		P
7440-50-8	Copper	5.0	U		P
7439-89-6	Iron	55.0	U		P
7439-92-1	Lead	3.0	U	W	F
7439-95-4	Magnesium	1010	B		P
7439-96-5	Manganese	3.9	B		P
7439-97-6	Mercury	1.2			CV
7440-02-0	Nickel	8.0	U		P
7440-09-7	Potassium	1270	B		P
7782-49-2	Selenium	11.6		S	F
7440-22-4	Silver	5.0	U		P
7440-23-5	Sodium	81300		E	P
7440-28-0	Thallium	4.0	U	NW	F
7440-62-2	Vanadium	4.0	U		P
7440-66-6	Zinc	5.7	B		P
	Cyanide				UR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

EPA SAMPLE NO.

1

INORGANIC ANALYSIS DATA SHEET

SMC-FB-105

La ame: WESTON-LIONVILLE Contract: 0000-00-00

Lab Code: WESTON Case No.: TRC SAS No.: SDG No.: CLP002

Matrix (soil/water): WATER Lab Sample ID: 9012002014

Level (low/med): LOW Date Received: 12/18/90

% 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	124	U		P
7440-36-0	Antimony	21.0	U		P
7440-38-2	Arsenic	2.0	U		F
7440-39-3	Barium	4.0	U		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	4.0	U		P
7440-70-2	Calcium	123	U		P
7440-47-3	Chromium	3.0	U		P
7440-48-4	Cobalt	5.0	U		P
7440-50-8	Copper	5.0	U		P
7439-89-6	Iron	55.0	U		P
7439-92-1	Lead	3.0	U		F
7439-95-4	Magnesium	90.0	U		P
7439-96-5	Manganese	2.0	U		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	8.0	U		P
7440-09-7	Potassium	816	U		P
7782-49-2	Selenium	2.0	U		F
7440-22-4	Silver	5.0	U		P
7440-23-5	Sodium	85.0	U	E	P
7440-28-0	Thallium	4.0	U	NW	F
7440-62-2	Vanadium	4.0	U		P
7440-66-6	Zinc	4.0	U		P
	Cyanide	10.0	U		P

lor Before: COLORLESS Clarity Before: CLEAR Texture:

lor After: COLORLESS Clarity After: CLEAR Artifacts:

ments:

U.S. EPA - CLP

EPA SAMPLE NO.

1

INORGANIC ANALYSIS DATA SHEET

SME-H-01

Lab Name: WESTON-LIONVILLE Contract: 0000-00-00

Lab Code: WESTON Case No.: TRC SAS No.: SDG No.: CLP002

Matrix (soil/water): WATER Lab Sample ID: 9012002016

Level (low/med): LOW Date Received: 12/18/90

% 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	14400			P
7440-36-0	Antimony	40.0	B		P
7440-38-2	Arsenic	4.5	B		F
7440-39-3	Barium	54.1	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	4.0	U		P
7440-70-2	Calcium	2650	B		P
7440-47-3	Chromium	2620			P
7440-48-4	Cobalt	15.9	B		P
7440-50-8	Copper	5.0	U		P
7439-89-6	Iron	66400			P
7439-92-1	Lead	5.1			F
7439-95-4	Magnesium	1920	B		P
7439-96-5	Manganese	424			P
7439-97-6	Mercury	4.2			CV
7440-02-0	Nickel	882			P
7440-09-7	Potassium	3650	B		P
7782-49-2	Selenium	2.0	U	W	F
7440-22-4	Silver	5.0	U		P
7440-23-5	Sodium	49200		E	P
7440-28-0	Thallium	40.0	U	NW	F
7440-62-2	Vanadium	4.0	U		P
7440-66-6	Zinc	170			P
	Cyanide	10.0	U		C

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SMC-HA-01

Lab Name: WESTON-LIONVILLE Contract: 0000-00-00

Lab Code: WESTON Case No.: TRC SAS No.: SDG No.: CLP002

Matrix (soil/water): WATER Lab Sample ID: 9012002017

Level (low/med): LOW Date Received: 12/18/90

% 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	124	U		P
7440-36-0	Antimony	21.0	U		P
7440-38-2	Arsenic	2.0	U		F
7440-39-3	Barium	27.5	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	4.0	U		P
7440-70-2	Calcium	2590	B		P
7440-47-3	Chromium	3.0	U		P
7440-48-4	Cobalt	5.0	U		P
7440-50-8	Copper	5.0	U		P
7439-89-6	Iron	2570			P
7439-92-1	Lead	3.0	U	W	F
7439-95-4	Magnesium	1800	B		P
7439-96-5	Manganese	342			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	231			P
7440-09-7	Potassium	3490	B		P
7782-49-2	Selenium	2.0	U	W	F
7440-22-4	Silver	5.0	U		P
7440-23-5	Sodium	49900		E	P
7440-28-0	Thallium	40.0	U	N	F
7440-62-2	Vanadium	4.0	U		P
7440-66-6	Zinc	13.7	B		P
	Cyanide				NC

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

EPA SAMPLE NO.

1

INORGANIC ANALYSIS DATA SHEET

bmc-sc258 01

D Name: WESTON-LIONVILLE Contract: 0000-00-00

Lab Code: WESTON Case No.: TRC SAS No.: SDG No.: CLP002

Matrix (soil/water): WATER Lab Sample ID: 9012002018

Level (low/med): LOW Date Received: 12/18/90

% 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	20500			P
7440-36-0	Antimony	54.5	B		P
7440-38-2	Arsenic	2.6	B	S	F
7440-39-3	Barium	62.0	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	4.0	U		P
7440-70-2	Calcium	2630	B		P
7440-47-3	Chromium	3740			P
7440-48-4	Cobalt	19.0	B		P
7440-50-8	Copper	5.0	U		P
7439-89-6	Iron	96100			P
7439-92-1	Lead	18.5		S	F
7439-95-4	Magnesium	1850	B		P
7439-96-5	Manganese	472			P
7439-97-6	Mercury	6.3			CV
7440-02-0	Nickel	1090			P
7440-09-7	Potassium	2950	B		P
7782-49-2	Selenium	2.0	U	W	F
7440-22-4	Silver	5.0	U		P
7440-23-5	Sodium	48000		E	P
7440-28-0	Thallium	40.0	U	NW	F
7440-62-2	Vanadium	4.0	U		P
7440-66-6	Zinc	176			P
	Cyanide	10.0	U		C

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

EPA SAMPLE NO.

1

INORGANIC ANALYSIS DATA SHEET

SMC-SC653401

Lab Name: WESTON-LIONVILLE Contract: 0000-00-00

Lab Code: WESTON Case No.: TRC SAS No.: SDG No.: CLP002

Matrix (soil/water): WATER Lab Sample ID: 9012002019

Level (low/med): LOW Date Received: 12/18/90

% 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	124	U		P
7440-36-0	Antimony	21.0	U		P
7440-38-2	Arsenic	2.0	U		F
7440-39-3	Barium	30.4	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	4.0	U		P
7440-70-2	Calcium	2650	B		P
7440-47-3	Chromium	3.0	U		P
7440-48-4	Cobalt	5.0	U		P
7440-50-8	Copper	5.0	U		P
7439-89-6	Iron	2840			P
7439-92-1	Lead	3.0	U	W	F
7439-95-4	Magnesium	1900	B		P
7439-96-5	Manganese	349			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	275			P
7440-09-7	Potassium	3580	B		P
7782-49-2	Selenium	2.0	U		F
7440-22-4	Silver	5.0	U		P
7440-23-5	Sodium	50100		E	P
7440-28-0	Thallium	4.0	U	NW	F
7440-62-2	Vanadium	4.0	U		P
7440-66-6	Zinc	16.7	B		P
	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

EPA SAMPLE NO.

1

INORGANIC ANALYSIS DATA SHEET

SMC-5403-01

Lab Name: WESTON-LIONVILLE Contract: 0000-00-00

Lab Code: WESTON Case No.: TRC SAS No.: SDG No.: CLP002

Matrix (soil/water): WATER Lab Sample ID: 9012002020

Level (low/med): LOW Date Received: 12/18/90

% 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	1600			P
7440-36-0	Antimony	21.0	U		P
7440-38-2	Arsenic	70.0			F
7440-39-3	Barium	4.0	U		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	4.0	U		P
7440-70-2	Calcium	123	U		P
7440-47-3	Chromium	885			P
7440-48-4	Cobalt	5.0	U		P
7440-50-8	Copper	5.0	U		P
7439-89-6	Iron	352			P
7439-92-1	Lead	3.0	U	W	F
7439-95-4	Magnesium	90.0	U		P
7439-96-5	Manganese	10.6	B		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	8.0	U		P
7440-09-7	Potassium	2380	B		P
7782-49-2	Selenium	2.0	U		F
7440-22-4	Silver	5.0	U		P
7440-23-5	Sodium	122000		E	P
7440-28-0	Thallium	4.0	U	NW	F
7440-62-2	Vanadium	86.2			P
7440-66-6	Zinc	9.3	B		P
	Cyanide	10.0	U		C

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

EPA SAMPLE NO.

1

INORGANIC ANALYSIS DATA SHEET

SMC-SCICSA-01

Lab Name: WESTON-LIONVILLE Contract: 0000-00-00

Lab Code: WESTON Case No.: TRC SAS No.: SDG No.: CLP002

Matrix (soil/water): WATER Lab Sample ID: 9012002021

Level (low/med): LOW Date Received: 12/18/90

% 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	1310			P
7440-36-0	Antimony	21.0	U		P
7440-38-2	Arsenic	72.0			F
7440-39-3	Barium	4.0	U		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	4.0	U		P
7440-70-2	Calcium	123	U		P
7440-47-3	Chromium	886			P
7440-48-4	Cobalt	5.0	U		P
7440-50-8	Copper	6.4	B		P
7439-89-6	Iron	194			P
7439-92-1	Lead	3.0	U	W	F
7439-95-4	Magnesium	90.0	U		P
7439-96-5	Manganese	2.0	U		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	8.0	U		P
7440-09-7	Potassium	1930	B		P
7782-49-2	Selenium	2.2	B	W	F
7440-22-4	Silver	5.0	U		P
7440-23-5	Sodium	122000		E	P
7440-28-0	Thallium	4.0	U	NW	F
7440-62-2	Vanadium	84.0			P
7440-66-6	Zinc	14.6	B		P
	Cyanide				PC

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SMC-SC10D-01

Lab Name: WESTON-LIONVILLE Contract: 0000-00-00

Lab Code: WESTON Case No.: TRC SAS No.: SDG No.: CLP002

Matrix (soil/water): WATER Lab Sample ID: 9012002022

Level (low/med): LOW Date Received: 12/18/90

% 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	519			P
7440-36-0	Antimony	88.1			P
7440-38-2	Arsenic	3.0	B	W	F
7440-39-3	Barium	10.2	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	4.0	U		P
7440-70-2	Calcium	11200			P
7440-47-3	Chromium	3660			P
7440-48-4	Cobalt	5.0	U		P
7440-50-8	Copper	11.6	B		P
7439-89-6	Iron	1770			P
7439-92-1	Lead	4.2	B	W	F
7439-95-4	Magnesium	398	B		P
7439-96-5	Manganese	18.4			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	8.0	U		P
7440-09-7	Potassium	3650	B		P
7782-49-2	Selenium	2.9	B	W	F
7440-22-4	Silver	5.0	U		P
7440-23-5	Sodium	44600		E	P
7440-28-0	Thallium	4.0	U	NW	F
7440-62-2	Vanadium	4.0	U		P
7440-66-6	Zinc	20.1			P
	Cyanide	10.0	U		C

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

EPA SAMPLE NO.

1

INORGANIC ANALYSIS DATA SHEET

SMC-SCIEDA-01

Lab Name: WESTON-LIONVILLE Contract: 0000-00-00

Lab Code: WESTON Case No.: TRC SAS No.: SDG No.: CLP002

Matrix (soil/water): WATER Lab Sample ID: 9012002023

Level (low/med): LOW Date Received: 12/18/90

% 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	124	U		P
7440-36-0	Antimony	61.0			P
7440-38-2	Arsenic	3.0	B	W	F
7440-39-3	Barium	7.0	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	4.0	U		P
7440-70-2	Calcium	10600			P
7440-47-3	Chromium	3520			P
7440-48-4	Cobalt	5.0	U		P
7440-50-8	Copper	11.4	B		P
7439-89-6	Iron	55.0	U		P
7439-92-1	Lead	3.0	U	W	F
7439-95-4	Magnesium	379	B		P
7439-96-5	Manganese	10.0	B		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	8.0	U		P
7440-09-7	Potassium	3280	B		P
7782-49-2	Selenium	2.8	B	W	F
7440-22-4	Silver	5.0	U		P
7440-23-5	Sodium	43700		E	P
7440-28-0	Thallium	4.0	U	NW	F
7440-62-2	Vanadium	4.0	U		P
7440-66-6	Zinc	14.0	B		P
	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

EPA SAMPLE NO.

1

INORGANIC ANALYSIS DATA SHEET

SMC-SC25-01

Lab Name: WESTON-LIONVILLE Contract: 0000-00-00

Lab Code: WESTON Case No.: TRC SAS No.: SDG No.: CLP002

Matrix (soil/water): WATER Lab Sample ID: 9012002026

Level (low/med): LOW Date Received: 12/18/90

% 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	292			P
7440-36-0	Antimony	21.0	U		P
7440-38-2	Arsenic	2.0	U	W	F
7440-39-3	Barium	45.2	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	4.0	U		P
7440-70-2	Calcium	7950			P
7440-47-3	Chromium	3.0	U		P
7440-48-4	Cobalt	5.0	U		P
7440-50-8	Copper	5.0	U		P
7439-89-6	Iron	1480			P
7439-92-1	Lead	3.0	U		F
7439-95-4	Magnesium	1660	B		P
7439-96-5	Manganese	24.5			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	8.0	U		P
7440-09-7	Potassium	2850	B		P
7782-49-2	Selenium	2.0	U		F
7440-22-4	Silver	5.0	U		P
7440-23-5	Sodium	2600	B	E	P
7440-28-0	Thallium	4.0	U	NW	F
7440-62-2	Vanadium	4.0	U		P
7440-66-6	Zinc	17.7	B		P
	Cyanide	10.0	U		C

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

EPA SAMPLE NO.

1

INORGANIC ANALYSIS DATA SHEET

SMC-SC215A

Lab Name: WESTON-LIONVILLE Contract: 0000-00-00

Lab Code: WESTON Case No.: TRC SAS No.: SDG No.: CLP002

Matrix (soil/water): WATER Lab Sample ID: 9012002027

Level (low/med): LOW Date Received: 12/18/90

% 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	124	U		P
7440-36-0	Antimony	21.0	U		P
7440-38-2	Arsenic	2.0	U	W	F
7440-39-3	Barium	46.1	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	4.0	U		P
7440-70-2	Calcium	8220			P
7440-47-3	Chromium	3.0	U		P
7440-48-4	Cobalt	5.0	U		P
7440-50-8	Copper	5.0	U		P
7439-89-6	Iron	55.0	U		P
7439-92-1	Lead	3.0	U	W	F
7439-95-4	Magnesium	1690	B		P
7439-96-5	Manganese	27.0			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	8.0	U		P
7440-09-7	Potassium	2950	B		P
7782-49-2	Selenium	2.0	U	W	F
7440-22-4	Silver	5.0	U		P
7440-23-5	Sodium	2500	B	E	P
7440-28-0	Thallium	4.0	U	NW	F
7440-62-2	Vanadium	4.0	U		P
7440-66-6	Zinc	15.9	B		P
	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

77

EPA SAMPLE NO.

1

INORGANIC ANALYSIS DATA SHEET

SMC-5210-01

Lab Name: WESTON-LIONVILLE Contract: 0000-00-00

Lab Code: WESTON Case No.: TRC SAS No.: SDG No.: CLP002

Matrix (soil/water): WATER Lab Sample ID: 9012002028

Level (low/med): LOW Date Received: 12/18/90

% 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	622			P
7440-36-0	Antimony	21.0	U		P
7440-38-2	Arsenic	2.0	U	W	F
7440-39-3	Barium	39.5	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	4.0	U		P
7440-70-2	Calcium	12600			P
7440-47-3	Chromium	3.0	U		P
7440-48-4	Cobalt	5.0	U		P
7440-50-8	Copper	8.2	B		P
7439-89-6	Iron	1910			P
7439-92-1	Lead	3.3	B		F
7439-95-4	Magnesium	2390	B		P
7439-96-5	Manganese	54.3			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	10.8	B		P
7440-09-7	Potassium	1960	B		P
7782-49-2	Selenium	2.0	U		F
7440-22-4	Silver	5.0	U		P
7440-23-5	Sodium	15700		E	P
7440-28-0	Thallium	4.0	U	MN	F
7440-62-2	Vanadium	4.0	U		P
7440-66-6	Zinc	34.6			P
	Cyanide	10.0	U		C

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

78

EPA SAMPLE NO.

1

INORGANIC ANALYSIS DATA SHEET

SMC-SC21DA-01

ab Name: WESTON-LIONVILLE Contract: 0000-00-00

ab Code: WESTON Case No.: TRC SAS No.: SDG No.: CLP002

atrix (soil/water): WATER Lab Sample ID: 9012002029

evel (low/med): LOW Date Received: 12/18/90

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	124	U		P
7440-36-0	Antimony	25.0	B		P
7440-38-2	Arsenic	2.0	U		F
7440-39-3	Barium	35.4	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	4.0	U		P
7440-70-2	Calcium	13000			P
7440-47-3	Chromium	3.0	U		P
7440-48-4	Cobalt	5.0	U		P
7440-50-8	Copper	5.9	B		P
7439-89-6	Iron	55.0	U		P
7439-92-1	Lead	3.0	U		F
7439-95-4	Magnesium	2390	B		P
7439-96-5	Manganese	22.0			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	8.0	U		P
7440-09-7	Potassium	1820	B		P
7782-49-2	Selenium	2.0	U		F
7440-22-4	Silver	5.0	U		P
7440-23-5	Sodium	17500		E	P
7440-28-0	Thallium	4.0	U	NW	F
7440-62-2	Vanadium	4.0	U		P
7440-66-6	Zinc	10.9	B		P
	Cyanide				UR

r Before: COLORLESS Clarity Before: CLEAR Texture:

r After: COLORLESS Clarity After: CLEAR Artifacts:

ents:

U.S. EPA - CLP

EPA SAMPLE NO.

1

INORGANIC ANALYSIS DATA SHEET

SME-SCRD01

Lab Name: WESTON-LIONVILLE Contract: 0000-00-00

Lab Code: WESTON Case No.: TRC SAS No.: SDG No.: CLP002

Matrix (soil/water): WATER Lab Sample ID: 9012002034

Level (low/med): LOW Date Received: 12/18/90

% 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	698			P
7440-36-0	Antimony	21.0	U		P
7440-38-2	Arsenic	2.0	U	W	F
7440-39-3	Barium	46.1	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	4.0	U		P
7440-70-2	Calcium	3460	B		P
7440-47-3	Chromium	3.0	U		P
7440-48-4	Cobalt	5.0	U		P
7440-50-8	Copper	5.0	U		P
7439-89-6	Iron	2010			P
7439-92-1	Lead	3.0	U	W	F
7439-95-4	Magnesium	1240	B		P
7439-96-5	Manganese	61.2			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	8.0	U		P
7440-09-7	Potassium	2190	B		P
7782-49-2	Selenium	3.0	B	W	F
7440-22-4	Silver	5.0	U		P
7440-23-5	Sodium	192000		E	P
7440-28-0	Thallium	4.0	U	NW	F
7440-62-2	Vanadium	4.0	U		P
7440-66-6	Zinc	25.5			P
	Cyanide	10.0	U		C

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SMC-SC19DA-01

Lab Name: WESTON-LIONVILLE Contract: 0000-00-00

Lab Code: WESTON Case No.: TRC SAS No.: SDG No.: CLP002

Matrix (soil/water): WATER Lab Sample ID: 9012002035

Level (low/med): LOW Date Received: 12/18/90

% 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	133	B		P
7440-36-0	Antimony	21.0	U		P
7440-38-2	Arsenic	2.0	U	W	F
7440-39-3	Barium	39.1	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	4.0	U		P
7440-70-2	Calcium	3300	B		P
7440-47-3	Chromium	3.0	U		P
7440-48-4	Cobalt	5.0	U		P
7440-50-8	Copper	5.0	U		P
7439-89-6	Iron	55.0	U		P
7439-92-1	Lead	3.0	U	W	F
7439-95-4	Magnesium	1070	B		P
7439-96-5	Manganese	41.1			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	8.0	U		P
7440-09-7	Potassium	1630	B		P
7782-49-2	Selenium	2.9	B	W	F
7440-22-4	Silver	5.0	U		P
7440-23-5	Sodium	188000		E	P
7440-28-0	Thallium	40.0	U	NW	F
7440-62-2	Vanadium	4.0	U		P
7440-66-6	Zinc	16.3	B		P
	Cyanide				MC

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

81

EPA SAMPLE NO.

1

INORGANIC ANALYSIS DATA SHEET

Zinc-Riw-01

ab Name: WESTON-LIONVILLE Contract: 0000-00-00

ab Code: WESTON Case No.: TRC SAS No.: SDG No.: CLP002

atrix (soil/water): WATER Lab Sample ID: 9012002030

evel (low/med): LOW Date Received: 12/18/90

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	124	U		P
7440-36-0	Antimony				
7440-38-2	Arsenic				
7440-39-3	Barium				
7440-41-7	Beryllium				
7440-43-9	Cadmium				
7440-70-2	Calcium	1570	B		P
7440-47-3	Chromium				
7440-48-4	Cobalt				
7440-50-8	Copper				
7439-89-6	Iron	55.0	U		P
7439-92-1	Lead				
7439-95-4	Magnesium	895	B		P
7439-96-5	Manganese	7.0	B		P
7439-97-6	Mercury				
7440-02-0	Nickel				
7440-09-7	Potassium	1270	B		P
7782-49-2	Selenium				
7440-22-4	Silver				
7440-23-5	Sodium				
7440-28-0	Thallium				
7440-62-2	Vanadium				
7440-66-6	Zinc				
	Cyanide				

or Before: COLORLESS Clarity Before: CLEAR Texture:

or After: COLORLESS Clarity After: CLEAR Artifacts:

ments:

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: WESTON-LIONVILLE Contract: 0000-00-00

Lab Code: WESTON Case No.: TRC SAS No.: SDG No.: CLP002

SOW No.: 07/87

EPA Sample No.	Lab Sample ID.
SMC-SC50-01	9012002001
SMC-SC50A-01	9012002002
SMC-SC5D-01	9012002003
SMC-SC5DA-01	9012002004
SMC-SC1W2-01	9012002005
SMC-SC1W2A-01	9012002006
SMC-SC245-01	9012002007
SMC-SC245A-01	9012002008
SMC-SC245A-01D	9012002008
SMC-SC245A-01S	9012002008
SMC-SC265-01	9012002009
SMC-SC265A-01	9012002010
SMC-SC2D-01	9012002011
SMC-SC2DA-01	9012002012
SMC-FB-1218	9012002014
SMC-A-01	9012002016
SMC-AA-01	9012002017
SMC-SC255-01	9012002018
SMC-SC255A-01	9012002019
SMC-SC105-01	9012002020
SMC-SC105A-01	9012002021
SMC-SC105A-01D	9012002021
SMC-SC105A-01S	9012002021
SMC-SC10D-01	9012002022

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:

Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Lab Manager: _____

Date: _____

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: WESTON-LIONVILLE Contract: 0000-00-00

Lab Code: WESTON Case No.: TRC SAS No.: SDG No.: CLP002

SOW No.: 07/87

EPA Sample No.	Lab Sample ID.
SMC-SC16DA-01	9012002023
SMC-SC21S-01	9012002026
SMC-SC21SA-01	9012002027
SMC-SC21D-01	9012002028
SMC-SC21DA-01	9012002029
SMC-SC19D-01	9012002034
SMC-SC19DA-01	9012002035
SMC-RINSE-01	9012002030

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:

Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Lab Manager: [signature]

Date: 2/5/91

WESTON

Roy F. Weston, INC.
Lionville Laboratory

CLIENT: TRC/SHIELDALLOY
RFW #: 9012L002
W.O.#: 0000-00-00

SAMPLES RECEIVED: 12/18/90

METALS NARRATIVE

The set of samples consisted of (28) water samples collected on 12/18/90.

The samples were analyzed according to criteria set forth in CLP SOW 7/87.

The following is a summary of the QC results accompanying these sample results and a description of any problems encountered during their analysis:

1. ICVs, CCVs, and LCSs stock standards were purchased from Inorganic Ventures Laboratory.

2. All ICV and CCV values were within control limits.

3. All ICB and CCB values were within control limits.

4. All preparation blank values were within control limits.

5. All LCS results were within the 80-120% control limits with the exception of Sb.

   Note: The USEPA has dropped control limits for antimony and silver due to documented difficulties in obtaining reliable results. WESTON Analytics has adopted the same policy.

6. All matrix spike recoveries were within the 75-125% control limits with the exception of Tl. All corresponding samples were flagged with an "N" according to CLP protocol.

7. All duplicate analyses were within the 20% RPD control limit.

WESTON

8. Arsenic, lead and selenium sample results were calculated by the method of standard addition (MSA). All corresponding samples were flagged with an "S according to CLP protocol.

Jack R. Tuschall, Ph.D.
Laboratory Manager
WESTON Analytical Laboratories

Date

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 04/05/91

CLIENT: TRC/SHIELDALLOY
WORK ORDER: 2724-05-01-0000

WESTON BATCH #: 9012L002

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-001	SMC-SC5S-01	Silver, Total	10.0	u	UG/L	10.0
		Aluminum, Total	1490		UG/L	200
		Arsenic, Total	10.0	u	UG/L	10.0
		Barium, Total	200	u	UG/L	200
		Beryllium, Total	5.0	u	UG/L	5.0
		Calcium, Total	7560		UG/L	5000
		Cadmium, Total	5.0	u	UG/L	5.0
		Cobalt, Total	50.0	u	UG/L	50.0
		Chromium, Total	10.0	u	UG/L	10.0
		Copper, Total	25.0	u	UG/L	25.0
		Iron, Total	5630		UG/L	100
		Mercury, Total	0.25	u	UG/L	0.25
		Potassium, Total	5000	u	UG/L	5000
		Magnesium, Total	5000	u	UG/L	5000
		Manganese, Total	19.6		UG/L	15.0
		Sodium, Total	5000	u	UG/L	5000
		Nickel, Total	40.0	u	UG/L	40.0
		Lead, Total	3.0	u	UG/L	3.0
		Antimony, Total	60.0	u	UG/L	60.0
		Selenium, Total	5.0	u	UG/L	5.0
		Thallium, Total	10.0	u	UG/L	10.0
		Vanadium, Total	50.0	u	UG/L	50.0
		Zinc, Total	114		UG/L	20.0

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 04/05/91

CLIENT: TRC/SHIELDALLOY
WORK ORDER: 2724-05-01-0000

WESTON BATCH #: 9012L002

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-002	SMC-SC5SA-01	Silver, Total	10.0	u	UG/L	10.0
		Aluminum, Total	200	u	UG/L	200
		Arsenic, Total	10.0	u	UG/L	10.0
		Barium, Total	200	u	UG/L	200
		Beryllium, Total	5.0	u	UG/L	5.0
		Calcium, Total	7920		UG/L	5000
		Cadmium, Total	5.0	u	UG/L	5.0
		Cobalt, Total	50.0	u	UG/L	50.0
		Chromium, Total	10.0	u	UG/L	10.0
		Copper, Total	25.0	u	UG/L	25.0
		Iron, Total	100	u	UG/L	100
		Mercury, Total	0.25	u	UG/L	0.25
		Potassium, Total	5000	u	UG/L	5000
		Magnesium, Total	5000	u	UG/L	5000
		Manganese, Total	18.3		UG/L	15.0
		Sodium, Total	5000	u	UG/L	5000
		Nickel, Total	40.0	u	UG/L	40.0
		Lead, Total	3.0	u	UG/L	3.0
		Antimony, Total	60.0	u	UG/L	60.0
		Selenium, Total	5.0	u	UG/L	5.0
		Thallium, Total	10.0	u	UG/L	10.0
		Vanadium, Total	50.0	u	UG/L	50.0
		Zinc, Total	20.0	u	UG/L	20.0

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 04/05/91

CLIENT: TRC/SHIELDALLOY
WORK ORDER: 2724-05-01-0000

WESTON BATCH #: 9012L002

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-003	SMC-SC5D-01	Silver, Total	10.0	u	UG/L	10.0
		Aluminum, Total	200	u	UG/L	200
		Arsenic, Total	10.0	u	UG/L	10.0
		Barium, Total	211		UG/L	200
		Beryllium, Total	5.0	u	UG/L	5.0
		Calcium, Total	8890		UG/L	5000
		Cadmium, Total	6.0		UG/L	5.0
		Cobalt, Total	50.0	u	UG/L	50.0
		Chromium, Total	10.0	u	UG/L	10.0
		Copper, Total	25.0	u	UG/L	25.0
		Iron, Total	450		UG/L	100
		Mercury, Total	5.6		UG/L	0.25
		Potassium, Total	5000	u	UG/L	5000
		Magnesium, Total	5000	u	UG/L	5000
		Manganese, Total	43.5		UG/L	15.0
		Sodium, Total	54300		UG/L	5000
		Nickel, Total	40.0	u	UG/L	40.0
		Lead, Total	10.9		UG/L	3.0
		Antimony, Total	60.0	u	UG/L	60.0
		Selenium, Total	5.0	u	UG/L	5.0
		Thallium, Total	10.0	u	UG/L	10.0
		Vanadium, Total	50.0	u	UG/L	50.0
		Zinc, Total	51.5		UG/L	20.0

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 04/05/91

CLIENT: TRC/SHIELDALLOY
WORK ORDER: 2724-05-01-0000

WESTON BATCH #: 9012L002

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-004	SMC-SC5DA-01	Silver, Total	10.0	u	UG/L	10.0
		Aluminum, Total	200	u	UG/L	200
		Arsenic, Total	10.0	u	UG/L	10.0
		Barium, Total	200	u	UG/L	200
		Beryllium, Total	5.0	u	UG/L	5.0
		Calcium, Total	5000	u	UG/L	5000
		Cadmium, Total	5.0	u	UG/L	5.0
		Cobalt, Total	50.0	u	UG/L	50.0
		Chromium, Total	10.0	u	UG/L	10.0
		Copper, Total	25.0	u	UG/L	25.0
		Iron, Total	100	u	UG/L	100
		Mercury, Total	12.2		UG/L	0.25
		Potassium, Total	5000	u	UG/L	5000
		Magnesium, Total	5000	u	UG/L	5000
		Manganese, Total	15.0	u	UG/L	15.0
		Sodium, Total	76100		UG/L	5000
		Nickel, Total	40.0	u	UG/L	40.0
		Lead, Total	3.0	u	UG/L	3.0
		Antimony, Total	60.0	u	UG/L	60.0
		Selenium, Total	5.9		UG/L	5.0
		Thallium, Total	10.0	u	UG/L	10.0
		Vanadium, Total	50.0	u	UG/L	50.0
		Zinc, Total	20.0	u	UG/L	20.0

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 04/05/91

CLIENT: TRC/SHIELDALLOY
WORK ORDER: 2724-05-01-0000

WESTON BATCH #: 9012L002

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-005	SMC-SCIW2-01	Silver, Total	10.0	u	UG/L	10.0
		Aluminum, Total	200	u	UG/L	200
		Arsenic, Total	10.0	u	UG/L	10.0
		Barium, Total	200	u	UG/L	200
		Beryllium, Total	5.0	u	UG/L	5.0
		Calcium, Total	5000	u	UG/L	5000
		Cadmium, Total	5.0	u	UG/L	5.0
		Cobalt, Total	50.0	u	UG/L	50.0
		Chromium, Total	26400		UG/L	10.0
		Copper, Total	25.0	u	UG/L	25.0
		Iron, Total	100	u	UG/L	100
		Mercury, Total	0.25	u	UG/L	0.25
		Potassium, Total	5000	u	UG/L	5000
		Magnesium, Total	5000	u	UG/L	5000
		Manganese, Total	15.0	u	UG/L	15.0
		Sodium, Total	169000		UG/L	5000
		Nickel, Total	40.0	u	UG/L	40.0
		Lead, Total	4.0		UG/L	3.0
		Antimony, Total	573		UG/L	60.0
		Selenium, Total	7.5		UG/L	5.0
		Thallium, Total	10.0	u	UG/L	10.0
		Vanadium, Total	50.0	u	UG/L	50.0
		Zinc, Total	20.0	u	UG/L	20.0

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 04/05/91

CLIENT: TRC/SHIELDALLOY
WORK ORDER: 2724-05-01-0000

WESTON BATCH #: 9012L002

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-006	SMC-SCIW2A-01	Silver, Total	10.0	u	UG/L	10.0
		Aluminum, Total	200	u	UG/L	200
		Arsenic, Total	10.0	u	UG/L	10.0
		Barium, Total	200	u	UG/L	200
		Beryllium, Total	5.0	u	UG/L	5.0
		Calcium, Total	5000	u	UG/L	5000
		Cadmium, Total	5.0	u	UG/L	5.0
		Cobalt, Total	50.0	u	UG/L	50.0
		Chromium, Total	26700		UG/L	10.0
		Copper, Total	25.0	u	UG/L	25.0
		Iron, Total	100	u	UG/L	100
		Mercury, Total	0.25	u	UG/L	0.25
		Potassium, Total	5000	u	UG/L	5000
		Magnesium, Total	5000	u	UG/L	5000
		Manganese, Total	15.0	u	UG/L	15.0
		Sodium, Total	171000		UG/L	5000
		Nickel, Total	40.0	u	UG/L	40.0
		Lead, Total	3.0	u	UG/L	3.0
		Antimony, Total	615		UG/L	60.0
		Selenium, Total	7.7		UG/L	5.0
		Thallium, Total	10.0	u	UG/L	10.0
		Vanadium, Total	50.0	u	UG/L	50.0
		Zinc, Total	20.0	u	UG/L	20.0

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 04/05/91

CLIENT: TRC/SHIELDALLOY
WORK ORDER: 2724-05-01-0000

WESTON BATCH #: 9012L002

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-007	SMC-SC24S-01	Silver, Total	10.0	u	UG/L	10.0
		Aluminum, Total	1890		UG/L	200
		Arsenic, Total	10.0	u	UG/L	10.0
		Barium, Total	247		UG/L	200
		Beryllium, Total	5.0	u	UG/L	5.0
		Calcium, Total	15900		UG/L	5000
		Cadmium, Total	5.0	u	UG/L	5.0
		Cobalt, Total	50.0	u	UG/L	50.0
		Chromium, Total	19.3		UG/L	10.0
		Copper, Total	25.0	u	UG/L	25.0
		Iron, Total	1440		UG/L	100
		Mercury, Total	0.25	u	UG/L	0.25
		Potassium, Total	5000	u	UG/L	5000
		Magnesium, Total	11000		UG/L	5000
		Manganese, Total	47.7		UG/L	15.0
		Sodium, Total	7940		UG/L	5000
		Nickel, Total	40.0	u	UG/L	40.0
		Lead, Total	3.0	u	UG/L	3.0
		Antimony, Total	60.0	u	UG/L	60.0
		Selenium, Total	5.0	u	UG/L	5.0
		Thallium, Total	10.0	u	UG/L	10.0
		Vanadium, Total	50.0	u	UG/L	50.0
		Zinc, Total	24.3		UG/L	20.0

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 04/05/91

CLIENT: TRC/SHIELDALLOY
WORK ORDER: 2724-05-01-0000

WESTON BATCH #: 9012L002

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-008	SMC-SC24SA-01	Silver, Total	10.0	u	UG/L	10.0
		Aluminum, Total	1630		UG/L	200
		Arsenic, Total	10.0	u	UG/L	10.0
		Barium, Total	270		UG/L	200
		Beryllium, Total	5.0	u	UG/L	5.0
		Calcium, Total	17300		UG/L	5000
		Cadmium, Total	5.0	u	UG/L	5.0
		Cobalt, Total	50.0	u	UG/L	50.0
		Chromium, Total	10.0	u	UG/L	10.0
		Copper, Total	25.0	u	UG/L	25.0
		Iron, Total	100	u	UG/L	100
		Mercury, Total	0.25	u	UG/L	0.25
		Potassium, Total	5000	u	UG/L	5000
		Magnesium, Total	11900		UG/L	5000
		Manganese, Total	52.9		UG/L	15.0
		Sodium, Total	8320		UG/L	5000
		Nickel, Total	40.0	u	UG/L	40.0
		Lead, Total	3.0	u	UG/L	3.0
		Antimony, Total	60.0	u	UG/L	60.0
		Selenium, Total	5.0	u	UG/L	5.0
		Thallium, Total	10.0	u	UG/L	10.0
		Vanadium, Total	50.0	u	UG/L	50.0
		Zinc, Total	20.0	u	UG/L	20.0

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 04/05/91

CLIENT: TRC/SHIELDALLOY
WORK ORDER: 2724-05-01-0000

WESTON BATCH #: 9012L002

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-009	SMC-SC26S-01	Silver, Total	10.0	u	UG/L	10.0
		Aluminum, Total	200	u	UG/L	200
		Arsenic, Total	10.0	u	UG/L	10.0
		Barium, Total	200	u	UG/L	200
		Beryllium, Total	5.0	u	UG/L	5.0
		Calcium, Total	5000	u	UG/L	5000
		Cadmium, Total	5.0	u	UG/L	5.0
		Cobalt, Total	50.0	u	UG/L	50.0
		Chromium, Total	10.0	u	UG/L	10.0
		Copper, Total	25.0	u	UG/L	25.0
		Iron, Total	100	u	UG/L	100
		Mercury, Total	1.1		UG/L	0.25
		Potassium, Total	5000	u	UG/L	5000
		Magnesium, Total	5000	u	UG/L	5000
		Manganese, Total	15.0	u	UG/L	15.0
		Sodium, Total	77000		UG/L	5000
		Nickel, Total	40.0	u	UG/L	40.0
		Lead, Total	3.0	u	UG/L	3.0
		Antimony, Total	60.0	u	UG/L	60.0
		Selenium, Total	16.8		UG/L	5.0
		Thallium, Total	10.0	u	UG/L	10.0
		Vanadium, Total	50.0	u	UG/L	50.0
		Zinc, Total	20.0	u	UG/L	20.0

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 04/05/91

CLIENT: TRC/SHIELDALLOY
WORK ORDER: 2724-05-01-0000

WESTON BATCH #: 9012L002

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-010	SMC-SC26SA-01	Silver, Total	10.0	u	UG/L	10.0
		Aluminum, Total	200	u	UG/L	200
		Arsenic, Total	10.0	u	UG/L	10.0
		Barium, Total	200	u	UG/L	200
		Beryllium, Total	5.0	u	UG/L	5.0
		Calcium, Total	5000	u	UG/L	5000
		Cadmium, Total	5.0	u	UG/L	5.0
		Cobalt, Total	50.0	u	UG/L	50.0
		Chromium, Total	10.0	u	UG/L	10.0
		Copper, Total	25.0	u	UG/L	25.0
		Iron, Total	100	u	UG/L	100
		Mercury, Total	1.4		UG/L	0.25
		Potassium, Total	5000	u	UG/L	5000
		Magnesium, Total	5000	u	UG/L	5000
		Manganese, Total	15.0	u	UG/L	15.0
		Sodium, Total	79700		UG/L	5000
		Nickel, Total	40.0	u	UG/L	40.0
		Lead, Total	3.0	u	UG/L	3.0
		Antimony, Total	60.0	u	UG/L	60.0
		Selenium, Total	9.2		UG/L	5.0
		Thallium, Total	10.0	u	UG/L	10.0
		Vanadium, Total	50.0	u	UG/L	50.0
		Zinc, Total	20.0	u	UG/L	20.0

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 04/05/91

CLIENT: TRC/SHIELDALLOY
WORK ORDER: 2724-05-01-0000

WESTON BATCH #: 9012L002

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-011	SMC-SC2D-01	Silver, Total	10.0	u	UG/L	10.0
		Aluminum, Total	200	u	UG/L	200
		Arsenic, Total	10.0	u	UG/L	10.0
		Barium, Total	200	u	UG/L	200
		Beryllium, Total	5.0	u	UG/L	5.0
		Calcium, Total	5000	u	UG/L	5000
		Cadmium, Total	5.0	u	UG/L	5.0
		Cobalt, Total	50.0	u	UG/L	50.0
		Chromium, Total	10.0	u	UG/L	10.0
		Copper, Total	25.0	u	UG/L	25.0
		Iron, Total	100	u	UG/L	100
		Mercury, Total	1.4		UG/L	0.25
		Potassium, Total	5000	u	UG/L	5000
		Magnesium, Total	5000	u	UG/L	5000
		Manganese, Total	15.0	u	UG/L	15.0
		Sodium, Total	77900		UG/L	5000
		Nickel, Total	40.0	u	UG/L	40.0
		Lead, Total	3.0	u	UG/L	3.0
		Antimony, Total	60.0	u	UG/L	60.0
		Selenium, Total	11.7		UG/L	5.0
		Thallium, Total	10.0	u	UG/L	10.0
		Vanadium, Total	50.0	u	UG/L	50.0
		Zinc, Total	20.0	u	UG/L	20.0

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 04/05/91

CLIENT: TRC/SHIELDALLOY
WORK ORDER: 2724-05-01-0000

WESTON BATCH #: 9012L002

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-012	SMC-SC2DA-01	Silver, Total	10.0	u	UG/L	10.0
		Aluminum, Total	200	u	UG/L	200
		Arsenic, Total	10.0	u	UG/L	10.0
		Barium, Total	200	u	UG/L	200
		Beryllium, Total	5.0	u	UG/L	5.0
		Calcium, Total	5000	u	UG/L	5000
		Cadmium, Total	5.0	u	UG/L	5.0
		Cobalt, Total	50.0	u	UG/L	50.0
		Chromium, Total	10.0	u	UG/L	10.0
		Copper, Total	25.0	u	UG/L	25.0
		Iron, Total	100	u	UG/L	100
		Mercury, Total	1.4		UG/L	0.25
		Potassium, Total	5000	u	UG/L	5000
		Magnesium, Total	5000	u	UG/L	5000
		Manganese, Total	15.0	u	UG/L	15.0
		Sodium, Total	81300		UG/L	5000
		Nickel, Total	40.0	u	UG/L	40.0
		Lead, Total	3.0	u	UG/L	3.0
		Antimony, Total	60.0	u	UG/L	60.0
		Selenium, Total	11.6		UG/L	5.0
		Thallium, Total	10.0	u	UG/L	10.0
		Vanadium, Total	50.0	u	UG/L	50.0
		Zinc, Total	20.0	u	UG/L	20.0

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 04/05/91

CLIENT: TRC/SHIELDALLOY
WORK ORDER: 2724-05-01-0000

WESTON BATCH #: 9012L002

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-016	SMC-H-01	Silver, Total	10.0	u	UG/L	10.0
		Aluminum, Total	14400		UG/L	200
		Arsenic, Total	10.0	u	UG/L	10.0
		Barium, Total	200	u	UG/L	200
		Beryllium, Total	5.0	u	UG/L	5.0
		Calcium, Total	5000	u	UG/L	5000
		Cadmium, Total	5.0	u	UG/L	5.0
		Cobalt, Total	50.0	u	UG/L	50.0
		Chromium, Total	2620		UG/L	10.0
		Copper, Total	25.0	u	UG/L	25.0
		Iron, Total	66400		UG/L	100
		Mercury, Total	5.2		UG/L	0.25
		Potassium, Total	5000	u	UG/L	5000
		Magnesium, Total	5000	u	UG/L	5000
		Manganese, Total	424		UG/L	15.0
		Sodium, Total	49200		UG/L	5000
		Nickel, Total	882		UG/L	40.0
		Lead, Total	5.1		UG/L	3.0
		Antimony, Total	60.0	u	UG/L	60.0
		Selenium, Total	5.0	u	UG/L	5.0
		Silicon, Total	3480		UG/L	100
		Thallium, Total	100	u	UG/L	100
		Vanadium, Total	50.0	u	UG/L	50.0
		Zinc, Total	170		UG/L	20.0

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 04/05/91

CLIENT: TRC/SHIELDALLOY
WORK ORDER: 2724-05-01-0000

WESTON BATCH #: 9012L002

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-017	SMC-HA-01	Silver, Total	10.0	u	UG/L	10.0
		Aluminum, Total	200	u	UG/L	200
		Arsenic, Total	10.0	u	UG/L	10.0
		Barium, Total	200	u	UG/L	200
		Beryllium, Total	5.0	u	UG/L	5.0
		Calcium, Total	5000	u	UG/L	5000
		Cadmium, Total	5.0	u	UG/L	5.0
		Cobalt, Total	50.0	u	UG/L	50.0
		Chromium, Total	10.0	u	UG/L	10.0
		Copper, Total	25.0	u	UG/L	25.0
		Iron, Total	2570		UG/L	100
		Mercury, Total	0.25	u	UG/L	0.25
		Potassium, Total	5000	u	UG/L	5000
		Magnesium, Total	5000	u	UG/L	5000
		Manganese, Total	342		UG/L	15.0
		Sodium, Total	49900		UG/L	5000
		Nickel, Total	231		UG/L	40.0
		Lead, Total	3.0	u	UG/L	3.0
		Antimony, Total	60.0	u	UG/L	60.0
		Selenium, Total	5.0	u	UG/L	5.0
		Thallium, Total	100	u	UG/L	100
		Vanadium, Total	50.0	u	UG/L	50.0
		Zinc, Total	20.0	u	UG/L	20.0

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 04/05/91

CLIENT: TRC/SHIELDALLOY
WORK ORDER: 2724-05-01-0000

WESTON BATCH #: 9012L002

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-018	SMC-SC25S-01	Silver, Total	10.0	u	UG/L	10.0
		Aluminum, Total	20500		UG/L	200
		Arsenic, Total	10.0	u	UG/L	10.0
		Barium, Total	200	u	UG/L	200
		Beryllium, Total	5.0	u	UG/L	5.0
		Calcium, Total	5000	u	UG/L	5000
		Cadmium, Total	5.0	u	UG/L	5.0
		Cobalt, Total	50.0	u	UG/L	50.0
		Chromium, Total	3740		UG/L	10.0
		Copper, Total	25.0	u	UG/L	25.0
		Iron, Total	96100		UG/L	100
		Mercury, Total	7.9		UG/L	0.25
		Potassium, Total	5000	u	UG/L	5000
		Magnesium, Total	5000	u	UG/L	5000
		Manganese, Total	472		UG/L	15.0
		Sodium, Total	48000		UG/L	5000
		Nickel, Total	1090		UG/L	40.0
		Lead, Total	18.5		UG/L	3.0
		Antimony, Total	60.0	u	UG/L	60.0
		Selenium, Total	5.0	u	UG/L	5.0
		Silicon, Total	4230		UG/L	100
		Thallium, Total	100	u	UG/L	100
		Vanadium, Total	50.0	u	UG/L	50.0
		Zinc, Total	176		UG/L	20.0

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 04/05/91

CLIENT: TRC/SHIELDALLOY
WORK ORDER: 2724-05-01-0000

WESTON BATCH #: 9012L002

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-019	SMC-SC25SA-01	Silver, Total	10.0	u	UG/L	10.0
		Aluminum, Total	200	u	UG/L	200
		Arsenic, Total	10.0	u	UG/L	10.0
		Barium, Total	200	u	UG/L	200
		Beryllium, Total	5.0	u	UG/L	5.0
		Calcium, Total	5000	u	UG/L	5000
		Cadmium, Total	5.0	u	UG/L	5.0
		Cobalt, Total	50.0	u	UG/L	50.0
		Chromium, Total	10.0	u	UG/L	10.0
		Copper, Total	25.0	u	UG/L	25.0
		Iron, Total	2840		UG/L	100
		Mercury, Total	0.25	u	UG/L	0.25
		Potassium, Total	5000	u	UG/L	5000
		Magnesium, Total	5000	u	UG/L	5000
		Manganese, Total	349		UG/L	15.0
		Sodium, Total	50100		UG/L	5000
		Nickel, Total	275		UG/L	40.0
		Lead, Total	3.0	u	UG/L	3.0
		Antimony, Total	60.0	u	UG/L	60.0
		Selenium, Total	5.0	u	UG/L	5.0
		Thallium, Total	10.0	u	UG/L	10.0
		Vanadium, Total	50.0	u	UG/L	50.0
		Zinc, Total	20.0	u	UG/L	20.0

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 04/05/91

CLIENT: TRC/SHIELDALLOY
WORK ORDER: 2724-05-01-0000

WESTON BATCH #: 9012L002

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-020	SMC-SC10S-01	Silver, Total	10.0	u	UG/L	10.0
		Aluminum, Total	1600		UG/L	200
		Arsenic, Total	70.0		UG/L	50.0
		Barium, Total	200	u	UG/L	200
		Beryllium, Total	5.0	u	UG/L	5.0
		Calcium, Total	5000	u	UG/L	5000
		Cadmium, Total	5.0	u	UG/L	5.0
		Cobalt, Total	50.0	u	UG/L	50.0
		Chromium, Total	885		UG/L	10.0
		Copper, Total	25.0	u	UG/L	25.0
		Iron, Total	352		UG/L	100
		Mercury, Total	0.25	u	UG/L	0.25
		Potassium, Total	5000	u	UG/L	5000
		Magnesium, Total	5000	u	UG/L	5000
		Manganese, Total	15.0	u	UG/L	15.0
		Sodium, Total	122000		UG/L	5000
		Nickel, Total	40.0	u	UG/L	40.0
		Lead, Total	3.0	u	UG/L	3.0
		Antimony, Total	60.0	u	UG/L	60.0
		Selenium, Total	5.0	u	UG/L	5.0
		Thallium, Total	10.0	u	UG/L	10.0
		Vanadium, Total	86.2		UG/L	50.0
		Zinc, Total	20.0	u	UG/L	20.0

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 04/05/91

CLIENT: TRC/SHIELDALLOY
WORK ORDER: 2724-05-01-0000

WESTON BATCH #: 9012L002

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-021	SMC-SC10SA-01	Silver, Total	10.0	u	UG/L	10.0
		Aluminum, Total	1310		UG/L	200
		Arsenic, Total	72.0		UG/L	50.0
		Barium, Total	200	u	UG/L	200
		Beryllium, Total	5.0	u	UG/L	5.0
		Calcium, Total	5000	u	UG/L	5000
		Cadmium, Total	5.0	u	UG/L	5.0
		Cobalt, Total	50.0	u	UG/L	50.0
		Chromium, Total	886		UG/L	10.0
		Copper, Total	25.0	u	UG/L	25.0
		Iron, Total	194		UG/L	100
		Mercury, Total	0.25	u	UG/L	0.25
		Potassium, Total	5000	u	UG/L	5000
		Magnesium, Total	5000	u	UG/L	5000
		Manganese, Total	15.0	u	UG/L	15.0
		Sodium, Total	122000		UG/L	5000
		Nickel, Total	40.0	u	UG/L	40.0
		Lead, Total	3.0	u	UG/L	3.0
		Antimony, Total	60.0	u	UG/L	60.0
		Selenium, Total	5.0	u	UG/L	5.0
		Thallium, Total	10.0	u	UG/L	10.0
		Vanadium, Total	84.0		UG/L	50.0
		Zinc, Total	20.0	u	UG/L	20.0

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 04/05/91

CLIENT: TRC/SHIELDALLOY
WORK ORDER: 2724-05-01-0000

WESTON BATCH #: 9012L002

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-022	SMC-SC10D-01	Silver, Total	10.0	u	UG/L	10.0
		Aluminum, Total	519		UG/L	200
		Arsenic, Total	10.0	u	UG/L	10.0
		Barium, Total	200	u	UG/L	200
		Beryllium, Total	5.0	u	UG/L	5.0
		Calcium, Total	11200		UG/L	5000
		Cadmium, Total	5.0	u	UG/L	5.0
		Cobalt, Total	50.0	u	UG/L	50.0
		Chromium, Total	3660		UG/L	10.0
		Copper, Total	25.0	u	UG/L	25.0
		Iron, Total	1770		UG/L	100
		Mercury, Total	0.25	u	UG/L	0.25
		Potassium, Total	5000	u	UG/L	5000
		Magnesium, Total	5000	u	UG/L	5000
		Manganese, Total	18.4		UG/L	15.0
		Sodium, Total	44600		UG/L	5000
		Nickel, Total	40.0	u	UG/L	40.0
		Lead, Total	4.2		UG/L	3.0
		Antimony, Total	88.1		UG/L	60.0
		Selenium, Total	5.0	u	UG/L	5.0
		Thallium, Total	10.0	u	UG/L	10.0
		Vanadium, Total	50.0	u	UG/L	50.0
		Zinc, Total	20.1		UG/L	20.0

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 04/05/91

CLIENT: TRC/SHIELDALLOY
WORK ORDER: 2724-05-01-0000

WESTON BATCH #: 9012L002

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-023	SMC-SC10DA-01	Silver, Total	10.0	u	UG/L	10.0
		Aluminum, Total	200	u	UG/L	200
		Arsenic, Total	10.0	u	UG/L	10.0
		Barium, Total	200	u	UG/L	200
		Beryllium, Total	5.0	u	UG/L	5.0
		Calcium, Total	10600		UG/L	5000
		Cadmium, Total	5.0	u	UG/L	5.0
		Cobalt, Total	50.0	u	UG/L	50.0
		Chromium, Total	3520		UG/L	10.0
		Copper, Total	25.0	u	UG/L	25.0
		Iron, Total	100	u	UG/L	100
		Mercury, Total	0.25	u	UG/L	0.25
		Potassium, Total	5000	u	UG/L	5000
		Magnesium, Total	5000	u	UG/L	5000
		Manganese, Total	15.0	u	UG/L	15.0
		Sodium, Total	43700		UG/L	5000
		Nickel, Total	40.0	u	UG/L	40.0
		Lead, Total	3.0	u	UG/L	3.0
		Antimony, Total	61.0		UG/L	60.0
		Selenium, Total	5.0	u	UG/L	5.0
		Thallium, Total	10.0	u	UG/L	10.0
		Vanadium, Total	50.0	u	UG/L	50.0
		Zinc, Total	20.0	u	UG/L	20.0

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 04/05/91

CLIENT: TRC/SHIELDALLOY
WORK ORDER: 2724-05-01-0000

WESTON BATCH #: 9012L002

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-026	SMC-SC21S-01	Silver, Total	10.0	u	UG/L	10.0
		Aluminum, Total	292		UG/L	200
		Arsenic, Total	10.0	u	UG/L	10.0
		Barium, Total	200	u	UG/L	200
		Beryllium, Total	5.0	u	UG/L	5.0
		Calcium, Total	7950		UG/L	5000
		Cadmium, Total	5.0	u	UG/L	5.0
		Cobalt, Total	50.0	u	UG/L	50.0
		Chromium, Total	10.0	u	UG/L	10.0
		Copper, Total	25.0	u	UG/L	25.0
		Iron, Total	1480		UG/L	100
		Mercury, Total	0.25	u	UG/L	0.25
		Potassium, Total	5000	u	UG/L	5000
		Magnesium, Total	5000	u	UG/L	5000
		Manganese, Total	24.5		UG/L	15.0
		Sodium, Total	5000	u	UG/L	5000
		Nickel, Total	40.0	u	UG/L	40.0
		Lead, Total	3.0	u	UG/L	3.0
		Antimony, Total	60.0	u	UG/L	60.0
		Selenium, Total	5.0	u	UG/L	5.0
		Thallium, Total	10.0	u	UG/L	10.0
		Vanadium, Total	50.0	u	UG/L	50.0
		Zinc, Total	20.0	u	UG/L	20.0

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 04/05/91

CLIENT: TRC/SHIELDALLOY
WORK ORDER: 2724-05-01-0000

WESTON BATCH #: 9012L002

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-027	SMC-SC21SA-01	Silver, Total	10.0	u	UG/L	10.0
		Aluminum, Total	200	u	UG/L	200
		Arsenic, Total	10.0	u	UG/L	10.0
		Barium, Total	200	u	UG/L	200
		Beryllium, Total	5.0	u	UG/L	5.0
		Calcium, Total	8220		UG/L	5000
		Cadmium, Total	5.0	u	UG/L	5.0
		Cobalt, Total	50.0	u	UG/L	50.0
		Chromium, Total	10.0	u	UG/L	10.0
		Copper, Total	25.0	u	UG/L	25.0
		Iron, Total	100	u	UG/L	100
		Mercury, Total	0.25	u	UG/L	0.25
		Potassium, Total	5000	u	UG/L	5000
		Magnesium, Total	5000	u	UG/L	5000
		Manganese, Total	27.0		UG/L	15.0
		Sodium, Total	5000	u	UG/L	5000
		Nickel, Total	40.0	u	UG/L	40.0
		Lead, Total	3.0	u	UG/L	3.0
		Antimony, Total	60.0	u	UG/L	60.0
		Selenium, Total	5.0	u	UG/L	5.0
		Thallium, Total	10.0	u	UG/L	10.0
		Vanadium, Total	50.0	u	UG/L	50.0
		Zinc, Total	20.0	u	UG/L	20.0

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 04/05/91

CLIENT: TRC/SHIELDALLOY
WORK ORDER: 2724-05-01-0000

WESTON BATCH #: 9012L002

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-028	SMC-SC21D-01	Silver, Total	10.0	u	UG/L	10.0
		Aluminum, Total	622		UG/L	200
		Arsenic, Total	10.0	u	UG/L	10.0
		Barium, Total	200	u	UG/L	200
		Beryllium, Total	5.0	u	UG/L	5.0
		Calcium, Total	12600		UG/L	5000
		Cadmium, Total	5.0	u	UG/L	5.0
		Cobalt, Total	50.0	u	UG/L	50.0
		Chromium, Total	10.0	u	UG/L	10.0
		Copper, Total	25.0	u	UG/L	25.0
		Iron, Total	1910		UG/L	100
		Mercury, Total	0.25	u	UG/L	0.25
		Potassium, Total	5000	u	UG/L	5000
		Magnesium, Total	5000	u	UG/L	5000
		Manganese, Total	54.3		UG/L	15.0
		Sodium, Total	15700		UG/L	5000
		Nickel, Total	40.0	u	UG/L	40.0
		Lead, Total	3.3		UG/L	3.0
		Antimony, Total	60.0	u	UG/L	60.0
		Selenium, Total	5.0	u	UG/L	5.0
		Thallium, Total	10.0	u	UG/L	10.0
		Vanadium, Total	50.0	u	UG/L	50.0
		Zinc, Total	34.6		UG/L	20.0

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 04/05/91

CLIENT: TRC/SHIELDALLOY
WORK ORDER: 2724-05-01-0000

WESTON BATCH #: 9012L002

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-029	SMC-SC21DA-01	Silver, Total	10.0	u	UG/L	10.0
		Aluminum, Total	200	u	UG/L	200
		Arsenic, Total	10.0	u	UG/L	10.0
		Barium, Total	200	u	UG/L	200
		Beryllium, Total	5.0	u	UG/L	5.0
		Calcium, Total	13000		UG/L	5000
		Cadmium, Total	5.0	u	UG/L	5.0
		Cobalt, Total	50.0	u	UG/L	50.0
		Chromium, Total	10.0	u	UG/L	10.0
		Copper, Total	25.0	u	UG/L	25.0
		Iron, Total	100	u	UG/L	100
		Mercury, Total	0.25	u	UG/L	0.25
		Potassium, Total	5000	u	UG/L	5000
		Magnesium, Total	5000	u	UG/L	5000
		Manganese, Total	22.0		UG/L	15.0
		Sodium, Total	17500		UG/L	5000
		Nickel, Total	40.0	u	UG/L	40.0
		Lead, Total	3.0	u	UG/L	3.0
		Antimony, Total	60.0	u	UG/L	60.0
		Selenium, Total	5.0	u	UG/L	5.0
		Thallium, Total	10.0	u	UG/L	10.0
		Vanadium, Total	50.0	u	UG/L	50.0
		Zinc, Total	20.0	u	UG/L	20.0

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 04/05/91

CLIENT: TRC/SHIELDALLOY
WORK ORDER: 2724-05-01-0000

WESTON BATCH #: 9012L002

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-030	SMC-R1W2-01	Aluminum, Total	200	u	UG/L	200
		Calcium, Total	5000	u	UG/L	5000
		Iron, Total	100	u	UG/L	100
		Potassium, Total	5000	u	UG/L	5000
		Magnesium, Total	5000	u	UG/L	5000
		Manganese, Total	15.0	u	UG/L	15.0
		Silicon, Total	3460		UG/L	100

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 04/05/91

CLIENT: TRC/SHIELDALLOY
WORK ORDER: 2724-05-01-0000

WESTON BATCH #: 9012L002

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-034	SMC-SC19D-01	Silver, Total	10.0	u	UG/L	10.0
		Aluminum, Total	698		UG/L	200
		Arsenic, Total	10.0	u	UG/L	10.0
		Barium, Total	200	u	UG/L	200
		Beryllium, Total	5.0	u	UG/L	5.0
		Calcium, Total	5000	u	UG/L	5000
		Cadmium, Total	5.0	u	UG/L	5.0
		Cobalt, Total	50.0	u	UG/L	50.0
		Chromium, Total	10.0	u	UG/L	10.0
		Copper, Total	25.0	u	UG/L	25.0
		Iron, Total	2010		UG/L	100
		Mercury, Total	0.25	u	UG/L	0.25
		Potassium, Total	5000	u	UG/L	5000
		Magnesium, Total	5000	u	UG/L	5000
		Manganese, Total	61.2		UG/L	15.0
		Sodium, Total	192000		UG/L	5000
		Nickel, Total	40.0	u	UG/L	40.0
		Lead, Total	3.0	u	UG/L	3.0
		Antimony, Total	60.0	u	UG/L	60.0
		Selenium, Total	5.0	u	UG/L	5.0
		Thallium, Total	10.0	u	UG/L	10.0
		Vanadium, Total	50.0	u	UG/L	50.0
		Zinc, Total	25.5		UG/L	20.0

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 04/05/91

CLIENT: TRC/SHIELDALLOY
WORK ORDER: 2724-05-01-0000

WESTON BATCH #: 9012L002

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-035	SMC-SC19DA-01	Silver, Total	10.0	u	UG/L	10.0
		Aluminum, Total	200	u	UG/L	200
		Arsenic, Total	10.0	u	UG/L	10.0
		Barium, Total	200	u	UG/L	200
		Beryllium, Total	5.0	u	UG/L	5.0
		Calcium, Total	5000	u	UG/L	5000
		Cadmium, Total	5.0	u	UG/L	5.0
		Cobalt, Total	50.0	u	UG/L	50.0
		Chromium, Total	10.0	u	UG/L	10.0
		Copper, Total	25.0	u	UG/L	25.0
		Iron, Total	100	u	UG/L	100
		Mercury, Total	0.25	u	UG/L	0.25
		Potassium, Total	5000	u	UG/L	5000
		Magnesium, Total	5000	u	UG/L	5000
		Manganese, Total	41.1		UG/L	15.0
		Sodium, Total	188000		UG/L	5000
		Nickel, Total	40.0	u	UG/L	40.0
		Lead, Total	3.0	u	UG/L	3.0
		Antimony, Total	60.0	u	UG/L	60.0
		Selenium, Total	5.0	u	UG/L	5.0
		Thallium, Total	100	u	UG/L	100
		Vanadium, Total	50.0	u	UG/L	50.0
		Zinc, Total	20.0	u	UG/L	20.0

Roy F. Weston, INC.
Lionville Laboratory

CLIENT: TRC/SHIELD ALLOY **SAMPLES RECEIVED:** 12/19/90
RFW #: 9012L015
W.O.#: 2724-05-31

METALS NARRATIVE

The set of samples consisted of (29) water samples collected on 12/19/90.

The samples were analyzed according to criteria set forth in CLP SOW 7/87.

The following is a summary of the QC results accompanying these sample results and a description of any problems encountered during their analysis:

1. ICVs, CCVs, and LCSs stock standards were purchased from Inorganic Ventures Laboratory.

2. All ICV and CCV values were within control limits.

3. All ICB and CCB values were within control limits.

4. All preparation blank values were within control limits.

5. All LCS results were within the 80-120% control limits.

   Note: The USEPA has dropped control limits for antimony and silver due to documented difficulties in obtaining reliable results. WESTON Analytics has adopted the same policy.

6. All matrix spike recoveries were within the 75-125% control limits with the exception of As, Ag, Se, Tl and CN. All corresponding samples were flagged with an "N" according to CLP protocol.

7. All duplicate analyses were within the 20% RPD control limits with the exception of As. All corresponding samples were flagged with an "*" according to CLP protocol.

8. Pb, As and Se sample results were calculated by the method of standard addition (MSA). All corresponding samples were flagged with an "S" according to CLP protocol.

Jack R. Tuschall, Ph.D.
Laboratory Manager
WESTON Analytical Laboratories

Date

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 04/12/91

CLIENT: TRC/SHIELDALLOY
WORK ORDER: 2724-05-01-0000

WESTON BATCH #: 9012L015

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-001	SMC-SC4D-01	Silver, Total	10.0	u	UG/L	10.0
		Aluminum, Total	200	u	UG/L	200
		Arsenic, Total	10.0	u	UG/L	10.0
		Barium, Total	200	u	UG/L	200
		Beryllium, Total	5.0	u	UG/L	5.0
		Calcium, Total	5000	u	UG/L	5000
		Cadmium, Total	5.0	u	UG/L	5.0
		Cobalt, Total	50.0	u	UG/L	50.0
		Chromium, Total	12600		UG/L	10.0
		Copper, Total	25.0	u	UG/L	25.0
		Iron, Total	259		UG/L	100
		Mercury, Total	0.25	u	UG/L	0.25
		Potassium, Total	5000	u	UG/L	5000
		Magnesium, Total	5000	u	UG/L	5000
		Manganese, Total	15.0	u	UG/L	15.0
		Sodium, Total	84000		UG/L	5000
		Nickel, Total	40.0	u	UG/L	40.0
		Lead, Total	3.0	u	UG/L	3.0
		Antimony, Total	258		UG/L	60.0
		Selenium, Total	8.4		UG/L	5.0
		Thallium, Total	10.0	u	UG/L	10.0
		Vanadium, Total	50.0	u	UG/L	50.0
		Zinc, Total	20.0	u	UG/L	20.0

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 04/12/91

CLIENT: TRC/SHIELDALLOY
WORK ORDER: 2724-05-01-0000

WESTON BATCH #: 9012L015

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-002	SMC-SC4DA-01	Silver, Total	10.0	u	UG/L	10.0
		Aluminum, Total	200	u	UG/L	200
		Arsenic, Total	10.0	u	UG/L	10.0
		Barium, Total	200	u	UG/L	200
		Beryllium, Total	5.0	u	UG/L	5.0
		Calcium, Total	5000	u	UG/L	5000
		Cadmium, Total	5.0	u	UG/L	5.0
		Cobalt, Total	50.0	u	UG/L	50.0
		Chromium, Total	12800		UG/L	10.0
		Copper, Total	25.0	u	UG/L	25.0
		Iron, Total	100	u	UG/L	100
		Mercury, Total	0.25	u	UG/L	0.25
		Potassium, Total	5000	u	UG/L	5000
		Magnesium, Total	5000	u	UG/L	5000
		Manganese, Total	15.0	u	UG/L	15.0
		Sodium, Total	85700		UG/L	5000
		Nickel, Total	40.0	u	UG/L	40.0
		Lead, Total	3.0	u	UG/L	3.0
		Antimony, Total	263		UG/L	60.0
		Selenium, Total	7.7		UG/L	5.0
		Thallium, Total	10.0	u	UG/L	10.0
		Vanadium, Total	50.0	u	UG/L	50.0
		Zinc, Total	29.4		UG/L	20.0

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 04/12/91

CLIENT: TRC/SHIELDALLOY
WORK ORDER: 2724-05-01-0000

WESTON BATCH #: 9012L015

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-003	SMC-SC4S-01	Silver, Total	10.0	u	UG/L	10.0
		Aluminum, Total	200	u	UG/L	200
		Arsenic, Total	10.0	u	UG/L	10.0
		Barium, Total	200	u	UG/L	200
		Beryllium, Total	5.0	u	UG/L	5.0
		Calcium, Total	5000	u	UG/L	5000
		Cadmium, Total	5.0	u	UG/L	5.0
		Cobalt, Total	50.0	u	UG/L	50.0
		Chromium, Total	1180		UG/L	10.0
		Copper, Total	25.0	u	UG/L	25.0
		Iron, Total	412		UG/L	100
		Mercury, Total	0.25	u	UG/L	0.25
		Potassium, Total	5000	u	UG/L	5000
		Magnesium, Total	5000	u	UG/L	5000
		Manganese, Total	15.0	u	UG/L	15.0
		Sodium, Total	20000		UG/L	5000
		Nickel, Total	40.0	u	UG/L	40.0
		Lead, Total	3.0	u	UG/L	3.0
		Antimony, Total	60.0	u	UG/L	60.0
		Selenium, Total	5.0	u	UG/L	5.0
		Thallium, Total	10.0	u	UG/L	10.0
		Vanadium, Total	50.0	u	UG/L	50.0
		Zinc, Total	20.0	u	UG/L	20.0

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 04/12/91

CLIENT: TRC/SHIELDALLOY
WORK ORDER: 2724-05-01-0000

WESTON BATCH #: 9012L015

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-004	SMC-SC4SA-01	Silver, Total	10.0	u	UG/L	10.0
		Aluminum, Total	200	u	UG/L	200
		Arsenic, Total	10.0	u	UG/L	10.0
		Barium, Total	200	u	UG/L	200
		Beryllium, Total	5.0	u	UG/L	5.0
		Calcium, Total	5000	u	UG/L	5000
		Cadmium, Total	5.0	u	UG/L	5.0
		Cobalt, Total	50.0	u	UG/L	50.0
		Chromium, Total	1150		UG/L	10.0
		Copper, Total	25.0	u	UG/L	25.0
		Iron, Total	100	u	UG/L	100
		Mercury, Total	0.25	u	UG/L	0.25
		Potassium, Total	5000	u	UG/L	5000
		Magnesium, Total	5000	u	UG/L	5000
		Manganese, Total	15.0	u	UG/L	15.0
		Sodium, Total	19900		UG/L	5000
		Nickel, Total	40.0	u	UG/L	40.0
		Lead, Total	3.0	u	UG/L	3.0
		Antimony, Total	60.0	u	UG/L	60.0
		Selenium, Total	50.0	u	UG/L	50.0
		Thallium, Total	100	u	UG/L	100
		Vanadium, Total	50.0	u	UG/L	50.0
		Zinc, Total	20.0	u	UG/L	20.0

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 04/12/91

CLIENT: TRC/SHIELDALLOY
WORK ORDER: 2724-05-01-0000

WESTON BATCH #: 9012L015

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-005	SMC-SC18S-01	Silver, Total	10.0	u	UG/L	10.0
		Aluminum, Total	200	u	UG/L	200
		Arsenic, Total	10.0	u	UG/L	10.0
		Barium, Total	200	u	UG/L	200
		Beryllium, Total	5.0	u	UG/L	5.0
		Calcium, Total	113000		UG/L	5000
		Cadmium, Total	5.0	u	UG/L	5.0
		Cobalt, Total	50.0	u	UG/L	50.0
		Chromium, Total	10.0	u	UG/L	10.0
		Copper, Total	25.0	u	UG/L	25.0
		Iron, Total	100	u	UG/L	100
		Mercury, Total	0.25	u	UG/L	0.25
		Potassium, Total	44400		UG/L	5000
		Magnesium, Total	40000		UG/L	5000
		Manganese, Total	128		UG/L	15.0
		Sodium, Total	6640		UG/L	5000
		Nickel, Total	40.0	u	UG/L	40.0
		Lead, Total	3.0	u	UG/L	3.0
		Antimony, Total	60.0	u	UG/L	60.0
		Selenium, Total	5.0	u	UG/L	5.0
		Thallium, Total	10.0	u	UG/L	10.0
		Vanadium, Total	50.0	u	UG/L	50.0
		Zinc, Total	20.0	u	UG/L	20.0

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 04/12/91

CLIENT: TRC/SHIELDALLOY
WORK ORDER: 2724-05-01-0000

WESTON BATCH #: 9012L015

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-006	SMC-SC18SA-01	Silver, Total	10.0	u	UG/L	10.0
		Aluminum, Total	200	u	UG/L	200
		Arsenic, Total	10.0	u	UG/L	10.0
		Barium, Total	200	u	UG/L	200
		Beryllium, Total	5.0	u	UG/L	5.0
		Calcium, Total	111000		UG/L	5000
		Cadmium, Total	5.0	u	UG/L	5.0
		Cobalt, Total	50.0	u	UG/L	50.0
		Chromium, Total	10.0	u	UG/L	10.0
		Copper, Total	25.0	u	UG/L	25.0
		Iron, Total	100	u	UG/L	100
		Mercury, Total	0.25	u	UG/L	0.25
		Potassium, Total	44100		UG/L	5000
		Magnesium, Total	39300		UG/L	5000
		Manganese, Total	126		UG/L	15.0
		Sodium, Total	6500		UG/L	5000
		Nickel, Total	40.0	u	UG/L	40.0
		Lead, Total	3.0	u	UG/L	3.0
		Antimony, Total	60.0	u	UG/L	60.0
		Selenium, Total	5.0	u	UG/L	5.0
		Thallium, Total	10.0	u	UG/L	10.0
		Vanadium, Total	50.0	u	UG/L	50.0
		Zinc, Total	20.0	u	UG/L	20.0

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 04/12/91

CLIENT: TRC/SHIELDALLOY
WORK ORDER: 2724-05-01-0000

WESTON BATCH #: 9012L015

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-007	SMC-SC18D-01	Silver, Total	10.0	u	UG/L	10.0
		Aluminum, Total	200	u	UG/L	200
		Arsenic, Total	10.0	u	UG/L	10.0
		Barium, Total	200	u	UG/L	200
		Beryllium, Total	5.0	u	UG/L	5.0
		Calcium, Total	5000	u	UG/L	5000
		Cadmium, Total	5.0	u	UG/L	5.0
		Cobalt, Total	50.0	u	UG/L	50.0
		Chromium, Total	10.0	u	UG/L	10.0
		Copper, Total	25.0	u	UG/L	25.0
		Iron, Total	191		UG/L	100
		Mercury, Total	0.25	u	UG/L	0.25
		Potassium, Total	5000	u	UG/L	5000
		Magnesium, Total	5000	u	UG/L	5000
		Manganese, Total	21.9		UG/L	15.0
		Sodium, Total	38400		UG/L	5000
		Nickel, Total	40.0	u	UG/L	40.0
		Lead, Total	3.0	u	UG/L	3.0
		Antimony, Total	60.0	u	UG/L	60.0
		Selenium, Total	5.0	u	UG/L	5.0
		Thallium, Total	10.0	u	UG/L	10.0
		Vanadium, Total	50.0	u	UG/L	50.0
		Zinc, Total	20.0	u	UG/L	20.0

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 04/12/91

CLIENT: TRC/SHIELDALLOY
WORK ORDER: 2724-05-01-0000

WESTON BATCH #: 9012L015

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-008	SMC-SC18DA-01	Silver, Total	10.0	u	UG/L	10.0
		Aluminum, Total	200	u	UG/L	200
		Arsenic, Total	10.0	u	UG/L	10.0
		Barium, Total	200	u	UG/L	200
		Beryllium, Total	5.0	u	UG/L	5.0
		Calcium, Total	5000	u	UG/L	5000
		Cadmium, Total	5.0	u	UG/L	5.0
		Cobalt, Total	50.0	u	UG/L	50.0
		Chromium, Total	10.0	u	UG/L	10.0
		Copper, Total	25.0	u	UG/L	25.0
		Iron, Total	100	u	UG/L	100
		Mercury, Total	0.25	u	UG/L	0.25
		Potassium, Total	5000	u	UG/L	5000
		Magnesium, Total	5000	u	UG/L	5000
		Manganese, Total	19.0		UG/L	15.0
		Sodium, Total	40600		UG/L	5000
		Nickel, Total	40.0	u	UG/L	40.0
		Lead, Total	3.0	u	UG/L	3.0
		Antimony, Total	60.0	u	UG/L	60.0
		Selenium, Total	5.0	u	UG/L	5.0
		Thallium, Total	10.0	u	UG/L	10.0
		Vanadium, Total	50.0	u	UG/L	50.0
		Zinc, Total	20.0	u	UG/L	20.0

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 04/12/91

CLIENT: TRC/SHIELDALLOY
WORK ORDER: 2724-05-01-0000

WESTON BATCH #: 9012L015

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-009	SMC-SC17D-01	Silver, Total	10.0	u	UG/L	10.0
		Aluminum, Total	20200		UG/L	200
		Arsenic, Total	10.0	u	UG/L	10.0
		Barium, Total	200	u	UG/L	200
		Beryllium, Total	5.0	u	UG/L	5.0
		Calcium, Total	32900		UG/L	5000
		Cadmium, Total	5.0	u	UG/L	5.0
		Cobalt, Total	50.0	u	UG/L	50.0
		Chromium, Total	586		UG/L	10.0
		Copper, Total	25.0	u	UG/L	25.0
		Iron, Total	42800		UG/L	100
		Mercury, Total	0.25	u	UG/L	0.25
		Potassium, Total	23000		UG/L	5000
		Magnesium, Total	6500		UG/L	5000
		Manganese, Total	300		UG/L	15.0
		Sodium, Total	93900		UG/L	5000
		Nickel, Total	40.0	u	UG/L	40.0
		Lead, Total	3.0	u	UG/L	3.0
		Antimony, Total	60.0	u	UG/L	60.0
		Selenium, Total	5.0	u	UG/L	5.0
		Thallium, Total	10.0	u	UG/L	10.0
		Vanadium, Total	50.0	u	UG/L	50.0
		Zinc, Total	132		UG/L	20.0

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 04/12/91

CLIENT: TRC/SHIELDALLOY
WORK ORDER: 2724-05-01-0000

WESTON BATCH #: 9012L015

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-010	SMC-SC17DA-01	Silver, Total	10.0	u	UG/L	10.0
		Aluminum, Total	5490		UG/L	200
		Arsenic, Total	10.0	u	UG/L	10.0
		Barium, Total	200	u	UG/L	200
		Beryllium, Total	5.0	u	UG/L	5.0
		Calcium, Total	12100		UG/L	5000
		Cadmium, Total	5.0	u	UG/L	5.0
		Cobalt, Total	50.0	u	UG/L	50.0
		Chromium, Total	505		UG/L	10.0
		Copper, Total	25.0	u	UG/L	25.0
		Iron, Total	11400		UG/L	100
		Mercury, Total	0.25	u	UG/L	0.25
		Potassium, Total	17600		UG/L	5000
		Magnesium, Total	5000	u	UG/L	5000
		Manganese, Total	80.5		UG/L	15.0
		Sodium, Total	79900		UG/L	5000
		Nickel, Total	40.0	u	UG/L	40.0
		Lead, Total	3.0	u	UG/L	3.0
		Antimony, Total	60.0	u	UG/L	60.0
		Selenium, Total	5.0	u	UG/L	5.0
		Thallium, Total	10.0	u	UG/L	10.0
		Vanadium, Total	50.0	u	UG/L	50.0
		Zinc, Total	53.3		UG/L	20.0

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 04/12/91

CLIENT: TRC/SHIELDALLOY
WORK ORDER: 2724-05-01-0000

WESTON BATCH #: 9012L015

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-011	SMC-IW1-01	Silver, Total	10.0	u	UG/L	10.0
		Aluminum, Total	200	u	UG/L	200
		Arsenic, Total	10.0	u	UG/L	10.0
		Barium, Total	200	u	UG/L	200
		Beryllium, Total	5.0	u	UG/L	5.0
		Calcium, Total	5000	u	UG/L	5000
		Cadmium, Total	5.0	u	UG/L	5.0
		Cobalt, Total	50.0	u	UG/L	50.0
		Chromium, Total	10.0	u	UG/L	10.0
		Copper, Total	25.0	u	UG/L	25.0
		Iron, Total	111		UG/L	100
		Mercury, Total	0.25	u	UG/L	0.25
		Potassium, Total	5000	u	UG/L	5000
		Magnesium, Total	5000	u	UG/L	5000
		Manganese, Total	15.0	u	UG/L	15.0
		Sodium, Total	42200		UG/L	5000
		Nickel, Total	40.0	u	UG/L	40.0
		Lead, Total	4.1		UG/L	3.0
		Antimony, Total	60.0	u	UG/L	60.0
		Selenium, Total	5.0	u	UG/L	5.0
		Thallium, Total	10.0	u	UG/L	10.0
		Vanadium, Total	50.0	u	UG/L	50.0
		Zinc, Total	23.8		UG/L	20.0

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 04/12/91

CLIENT: TRC/SHIELDALLOY
WORK ORDER: 2724-05-01-0000

WESTON BATCH #: 9012L015

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-012	SMC-IW1A-01	Silver, Total	10.0	u	UG/L	10.0
		Aluminum, Total	200	u	UG/L	200
		Arsenic, Total	10.0	u	UG/L	10.0
		Barium, Total	200	u	UG/L	200
		Beryllium, Total	5.0	u	UG/L	5.0
		Calcium, Total	5000	u	UG/L	5000
		Cadmium, Total	5.0	u	UG/L	5.0
		Cobalt, Total	50.0	u	UG/L	50.0
		Chromium, Total	10.0	u	UG/L	10.0
		Copper, Total	25.0	u	UG/L	25.0
		Iron, Total	100	u	UG/L	100
		Mercury, Total	0.25	u	UG/L	0.25
		Potassium, Total	5000	u	UG/L	5000
		Magnesium, Total	5000	u	UG/L	5000
		Manganese, Total	15.0	u	UG/L	15.0
		Sodium, Total	40800		UG/L	5000
		Nickel, Total	40.0	u	UG/L	40.0
		Lead, Total	9.3		UG/L	6.0
		Antimony, Total	60.0	u	UG/L	60.0
		Selenium, Total	5.0	u	UG/L	5.0
		Thallium, Total	100	u	UG/L	100
		Vanadium, Total	50.0	u	UG/L	50.0
		Zinc, Total	20.0	u	UG/L	20.0

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 04/12/91

CLIENT: TRC/SHIELDALLOY
WORK ORDER: 2724-05-01-0000

WESTON BATCH #: 9012L015

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-015	SMC-SC20S-01	Silver, Total	10.0	u	UG/L	10.0
		Aluminum, Total	1130		UG/L	200
		Arsenic, Total	10.0	u	UG/L	10.0
		Boron, Total	787		UG/L	100
		Barium, Total	200	u	UG/L	200
		Beryllium, Total	5.0	u	UG/L	5.0
		Calcium, Total	23100		UG/L	5000
		Cadmium, Total	5.0	u	UG/L	5.0
		Cobalt, Total	50.0	u	UG/L	50.0
		Chromium, Total	120		UG/L	10.0
		Copper, Total	25.0	u	UG/L	25.0
		Iron, Total	2110		UG/L	100
		Mercury, Total	0.25	u	UG/L	0.25
		Potassium, Total	21400		UG/L	5000
		Magnesium, Total	9100		UG/L	5000
		Manganese, Total	134		UG/L	15.0
		Sodium, Total	42000		UG/L	5000
		Niobium, Total	200	u	UG/L	200
		Nickel, Total	40.0	u	UG/L	40.0
		Lead, Total	6.0	u	UG/L	6.0
		Antimony, Total	60.0	u	UG/L	60.0
		Selenium, Total	5.0	u	UG/L	5.0
		Strontium, Total	152		UG/L	100
		Titanium, Total	100	u	UG/L	100
		Thallium, Total	10.0	u	UG/L	10.0
		Vanadium, Total	50.0	u	UG/L	50.0
		Zinc, Total	20.0	u	UG/L	20.0
		Zirconium, Total	200	u	UG/L	200

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 04/12/91

CLIENT: TRC/SHIELDALLOY
WORK ORDER: 2724-05-01-0000

WESTON BATCH #: 9012L015

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-016	SMC-SC20SA-01	Silver, Total	10.0	u	UG/L	10.0
		Aluminum, Total	200	u	UG/L	200
		Arsenic, Total	10.0	u	UG/L	10.0
		Boron, Total	832		UG/L	100
		Barium, Total	200	u	UG/L	200
		Beryllium, Total	5.0	u	UG/L	5.0
		Calcium, Total	24400		UG/L	5000
		Cadmium, Total	5.0	u	UG/L	5.0
		Cobalt, Total	50.0	u	UG/L	50.0
		Chromium, Total	118		UG/L	10.0
		Copper, Total	25.0	u	UG/L	25.0
		Iron, Total	100	u	UG/L	100
		Mercury, Total	0.25	u	UG/L	0.25
		Potassium, Total	22000		UG/L	5000
		Magnesium, Total	9660		UG/L	5000
		Manganese, Total	140		UG/L	15.0
		Sodium, Total	45200		UG/L	5000
		Niobium, Total	200	u	UG/L	200
		Nickel, Total	40.0	u	UG/L	40.0
		Lead, Total	3.0	u	UG/L	3.0
		Antimony, Total	60.0	u	UG/L	60.0
		Selenium, Total	5.0	u	UG/L	5.0
		Strontium, Total	152		UG/L	100
		Titanium, Total	100	u	UG/L	100
		Thallium, Total	10.0	u	UG/L	10.0
		Vanadium, Total	50.0	u	UG/L	50.[illegible]
		Zinc, Total	20.0	u	UG/L	20.0
		Zirconium, Total	200	u	UG/L	200

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 04/12/91

CLIENT: TRC/SHIELDALLOY
WORK ORDER: 2724-05-01-0000

WESTON BATCH #: 9012L015

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-017	SMC-SC11S-01	Silver, Total	10.0	u	UG/L	10.0
		Aluminum, Total	1620		UG/L	200
		Arsenic, Total	10.0	u	UG/L	10.0
		Barium, Total	200	u	UG/L	200
		Beryllium, Total	5.0	u	UG/L	5.0
		Calcium, Total	5000	u	UG/L	5000
		Cadmium, Total	5.0	u	UG/L	5.0
		Cobalt, Total	50.0	u	UG/L	50.0
		Chromium, Total	67.9		UG/L	10.0
		Copper, Total	25.0	u	UG/L	25.0
		Iron, Total	1720		UG/L	100
		Mercury, Total	0.25	u	UG/L	0.25
		Potassium, Total	5000	u	UG/L	5000
		Magnesium, Total	8560		UG/L	5000
		Manganese, Total	27.1		UG/L	15.0
		Sodium, Total	12500		UG/L	5000
		Nickel, Total	40.0	u	UG/L	40.0
		Lead, Total	3.4		UG/L	3.0
		Antimony, Total	60.0	u	UG/L	60.0
		Selenium, Total	5.0	u	UG/L	5.0
		Thallium, Total	10.0	u	UG/L	10.0
		Vanadium, Total	50.0	u	UG/L	50.0
		Zinc, Total	28.6		UG/L	20.0

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 04/12/91

CLIENT: TRC/SHIELDALLOY
WORK ORDER: 2724-05-01-0000

WESTON BATCH #: 9012L015

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-018	SMC-SC11SA-01	Silver, Total	10.9		UG/L	10.0
		Aluminum, Total	200	u	UG/L	200
		Arsenic, Total	10.0	u	UG/L	10.0
		Barium, Total	200	u	UG/L	200
		Beryllium, Total	5.0	u	UG/L	5.0
		Calcium, Total	5000	u	UG/L	5000
		Cadmium, Total	5.0	u	UG/L	5.0
		Cobalt, Total	50.0	u	UG/L	50.0
		Chromium, Total	111		UG/L	10.0
		Copper, Total	25.0	u	UG/L	25.0
		Iron, Total	100	u	UG/L	100
		Mercury, Total	0.25	u	UG/L	0.25
		Potassium, Total	5000	u	UG/L	5000
		Magnesium, Total	11700		UG/L	5000
		Manganese, Total	15.0	u	UG/L	15.0
		Sodium, Total	9160		UG/L	5000
		Nickel, Total	40.0	u	UG/L	40.0
		Lead, Total	3.0	u	UG/L	3.0
		Antimony, Total	60.0	u	UG/L	60.0
		Selenium, Total	5.0	u	UG/L	5.0
		Thallium, Total	10.0	u	UG/L	10.0
		Vanadium, Total	50.0	u	UG/L	50.0
		Zinc, Total	20.0	u	UG/L	20.0

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 04/12/91

CLIENT: TRC/SHIELDALLOY
WORK ORDER: 2724-05-01-0000

WESTON BATCH #: 9012L015

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-019	SMC-SC17S-01	Silver, Total	15.1		UG/L	10.0
		Aluminum, Total	2370		UG/L	200
		Arsenic, Total	10.0	u	UG/L	10.0
		Barium, Total	200	u	UG/L	200
		Beryllium, Total	5.0	u	UG/L	5.0
		Calcium, Total	11000		UG/L	5000
		Cadmium, Total	5.0	u	UG/L	5.0
		Cobalt, Total	50.0	u	UG/L	50.0
		Chromium, Total	10.0	u	UG/L	10.0
		Copper, Total	25.0	u	UG/L	25.0
		Iron, Total	14100		UG/L	100
		Mercury, Total	0.25	u	UG/L	0.25
		Potassium, Total	5000	u	UG/L	5000
		Magnesium, Total	5000	u	UG/L	5000
		Manganese, Total	74.2		UG/L	15.0
		Sodium, Total	21200		UG/L	5000
		Nickel, Total	40.0	u	UG/L	40.0
		Lead, Total	3.0	u	UG/L	3.0
		Antimony, Total	60.0	u	UG/L	60.0
		Selenium, Total	5.0	u	UG/L	5.0
		Thallium, Total	10.0	u	UG/L	10.0
		Vanadium, Total	50.0	u	UG/L	50.0
		Zinc, Total	52.6		UG/L	20.0

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 04/12/91

CLIENT: TRC/SHIELDALLOY
WORK ORDER: 2724-05-01-0000

WESTON BATCH #: 9012L015

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-020	SMC-SC17SA-01	Silver, Total	10.0	u	UG/L	10.0
		Aluminum, Total	200	u	UG/L	200
		Arsenic, Total	10.0	u	UG/L	10.0
		Barium, Total	200	u	UG/L	200
		Beryllium, Total	5.0	u	UG/L	5.0
		Calcium, Total	11800		UG/L	5000
		Cadmium, Total	5.0	u	UG/L	5.0
		Cobalt, Total	50.0	u	UG/L	50.0
		Chromium, Total	10.0	u	UG/L	10.0
		Copper, Total	25.0	u	UG/L	25.0
		Iron, Total	100	u	UG/L	100
		Mercury, Total	0.25	u	UG/L	0.25
		Potassium, Total	5000	u	UG/L	5000
		Magnesium, Total	5000	u	UG/L	5000
		Manganese, Total	55.8		UG/L	15.0
		Sodium, Total	22200		UG/L	5000
		Nickel, Total	40.0	u	UG/L	40.0
		Lead, Total	3.0	u	UG/L	3.0
		Antimony, Total	60.0	u	UG/L	60.0
		Selenium, Total	5.0	u	UG/L	5.0
		Thallium, Total	10.0	u	UG/L	10.0
		Vanadium, Total	50.0	u	UG/L	50.0
		Zinc, Total	22.0		UG/L	20.0

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 04/12/91

CLIENT: TRC/SHIELDALLOY
WORK ORDER: 2724-05-01-0000

WESTON BATCH #: 9012L015

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-022	SMC-W3D-01	Silver, Total	14.3		UG/L	10.0
		Aluminum, Total	200	u	UG/L	200
		Arsenic, Total	10.0	u	UG/L	10.0
		Boron, Total	100	u	UG/L	100
		Barium, Total	219		UG/L	200
		Beryllium, Total	5.0	u	UG/L	5.0
		Calcium, Total	5000	u	UG/L	5000
		Cadmium, Total	5.0	u	UG/L	5.0
		Cobalt, Total	50.0	u	UG/L	50.0
		Chromium, Total	10.0	u	UG/L	10.0
		Copper, Total	25.0	u	UG/L	25.0
		Iron, Total	100	u	UG/L	100
		Mercury, Total	0.25	u	UG/L	0.25
		Potassium, Total	5000	u	UG/L	5000
		Magnesium, Total	5600		UG/L	5000
		Manganese, Total	79.6		UG/L	15.0
		Sodium, Total	7240		UG/L	5000
		Niobium, Total	200	u	UG/L	200
		Nickel, Total	40.0	u	UG/L	40.0
		Lead, Total	6.7		UG/L	3.0
		Antimony, Total	60.0	u	UG/L	60.0
		Selenium, Total	5.0	u	UG/L	5.0
		Silicon, Total	3460		UG/L	100
		Strontium, Total	100	u	UG/L	100
		Titanium, Total	100	u	UG/L	100
		Thallium, Total	10.0	u	UG/L	10.0
		Vanadium, Total	50.0	u	UG/L	50.0
		Zinc, Total	24.6		UG/L	20.0
		Zirconium, Total	200	u	UG/L	200

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 04/12/91

CLIENT: TRC/SHIELDALLOY
WORK ORDER: 2724-05-01-0000

WESTON BATCH #: 9012L015

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-023	SMC-W3DA-01	Silver, Total	10.0	u	UG/L	10.0
		Aluminum, Total	200	u	UG/L	200
		Arsenic, Total	10.0	u	UG/L	10.0
		Boron, Total	100	u	UG/L	100
		Barium, Total	269		UG/L	200
		Beryllium, Total	5.0	u	UG/L	5.0
		Calcium, Total	5330		UG/L	5000
		Cadmium, Total	5.0	u	UG/L	5.0
		Cobalt, Total	50.0	u	UG/L	50.0
		Chromium, Total	10.0	u	UG/L	10.0
		Copper, Total	25.0	u	UG/L	25.0
		Iron, Total	100	u	UG/L	100
		Mercury, Total	0.25	u	UG/L	0.25
		Potassium, Total	5000	u	UG/L	5000
		Magnesium, Total	6800		UG/L	5000
		Manganese, Total	76.4		UG/L	15.0
		Sodium, Total	8250		UG/L	5000
		Niobium, Total	200	u	UG/L	200
		Nickel, Total	40.0	u	UG/L	40.0
		Lead, Total	7.0		UG/L	3.0
		Antimony, Total	60.0	u	UG/L	60.0
		Selenium, Total	50.0	u	UG/L	50.0
		Strontium, Total	100	u	UG/L	100
		Titanium, Total	100	u	UG/L	100
		Thallium, Total	10.0	u	UG/L	10.0
		Vanadium, Total	50.0	u	UG/L	50.0
		Zinc, Total	20.0	u	UG/L	20.0
		Zirconium, Total	200	u	UG/L	200

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 04/12/91

CLIENT: TRC/SHIELDALLOY
WORK ORDER: 2724-05-01-0000

WESTON BATCH #: 9012L015

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-024	SMC-SC27S-01	Silver, Total	10.0	u	UG/L	10.0
		Aluminum, Total	200	u	UG/L	200
		Arsenic, Total	10.0	u	UG/L	10.0
		Boron, Total	100	u	UG/L	100
		Barium, Total	287		UG/L	200
		Beryllium, Total	5.0	u	UG/L	5.0
		Calcium, Total	5750		UG/L	5000
		Cadmium, Total	5.0	u	UG/L	5.0
		Cobalt, Total	50.0	u	UG/L	50.0
		Chromium, Total	10.0	u	UG/L	10.0
		Copper, Total	25.0	u	UG/L	25.0
		Iron, Total	100	u	UG/L	100
		Mercury, Total	0.25	u	UG/L	0.25
		Potassium, Total	5000	u	UG/L	5000
		Magnesium, Total	7240		UG/L	5000
		Manganese, Total	115		UG/L	15.0
		Sodium, Total	8770		UG/L	5000
		Niobium, Total	200	u	UG/L	200
		Nickel, Total	40.0	u	UG/L	40.0
		Lead, Total	7.9		UG/L	3.0
		Antimony, Total	60.0	u	UG/L	60.0
		Selenium, Total	5.0	u	UG/L	5.0
		Silicon, Total	3370		UG/L	100
		Strontium, Total	100	u	UG/L	100
		Titanium, Total	100	u	UG/L	100
		Thallium, Total	10.0	u	UG/L	10.0
		Vanadium, Total	50.0	u	UG/L	50.0
		Zinc, Total	23.0		UG/L	20.0
		Zirconium, Total	200	u	UG/L	200

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 04/12/91

CLIENT: TRC/SHIELDALLOY
WORK ORDER: 2724-05-01-0000

WESTON BATCH #: 9012L015

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-025	SMC-SC27SA-01	Silver, Total	12.2		UG/L	10.0
		Aluminum, Total	200	u	UG/L	200
		Arsenic, Total	10.0	u	UG/L	10.0
		Boron, Total	100	u	UG/L	100
		Barium, Total	224		UG/L	200
		Beryllium, Total	5.0	u	UG/L	5.0
		Calcium, Total	5000	u	UG/L	5000
		Cadmium, Total	5.0	u	UG/L	5.0
		Cobalt, Total	50.0	u	UG/L	50.0
		Chromium, Total	10.0	u	UG/L	10.0
		Copper, Total	25.0	u	UG/L	25.0
		Iron, Total	100	u	UG/L	100
		Mercury, Total	0.25	u	UG/L	0.25
		Potassium, Total	5000	u	UG/L	5000
		Magnesium, Total	5720		UG/L	5000
		Manganese, Total	56.5		UG/L	15.0
		Sodium, Total	7250		UG/L	5000
		Niobium, Total	200	u	UG/L	200
		Nickel, Total	40.0	u	UG/L	40.0
		Lead, Total	3.0	u	UG/L	3.0
		Antimony, Total	60.0	u	UG/L	60.0
		Selenium, Total	5.0	u	UG/L	5.0
		Strontium, Total	100	u	UG/L	100
		Titanium, Total	100	u	UG/L	100
		Thallium, Total	10.0	u	UG/L	10.0
		Vanadium, Total	50.0	u	UG/L	50.0
		Zinc, Total	26.3		UG/L	20.0
		Zirconium, Total	200	u	UG/L	200

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 04/12/91

CLIENT: TRC/SHIELDALLOY
WORK ORDER: 2724-05-01-0000

WESTON BATCH #: 9012L015

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-027	SMC-G1S-01	Silver, Total	30.3		UG/L	10.0
		Aluminum, Total	2470		UG/L	200
		Arsenic, Total	10.0	u	UG/L	10.0
		Boron, Total	3540		UG/L	100
		Barium, Total	200	u	UG/L	200
		Beryllium, Total	5.0	u	UG/L	5.0
		Calcium, Total	5000	u	UG/L	5000
		Cadmium, Total	5.0	u	UG/L	5.0
		Cobalt, Total	50.0	u	UG/L	50.0
		Chromium, Total	2530		UG/L	10.0
		Copper, Total	51.4		UG/L	25.0
		Iron, Total	149000		UG/L	100
		Mercury, Total	0.68		UG/L	0.25
		Potassium, Total	5000	u	UG/L	5000
		Magnesium, Total	5000	u	UG/L	5000
		Manganese, Total	3690		UG/L	15.0
		Sodium, Total	72000		UG/L	5000
		Niobium, Total	200	u	UG/L	200
		Nickel, Total	40.0	u	UG/L	40.0
		Lead, Total	75.0		UG/L	30.0
		Antimony, Total	61.2		UG/L	60.0
		Selenium, Total	5.0	u	UG/L	5.0
		Silicon, Total	2780		UG/L	100
		Strontium, Total	100	u	UG/L	100
		Titanium, Total	100	u	UG/L	100
		Thallium, Total	100	u	UG/L	00
		Vanadium, Total	135		UG/L	50.0
		Zinc, Total	1130		UG/L	20.0
		Zirconium, Total	200	u	UG/L	200

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 04/12/91

CLIENT: TRC/SHIELDALLOY
WORK ORDER: 2724-05-01-0000

WESTON BATCH #: 9012L015

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-028	SMC-G1SA-01	Silver, Total	11.3		UG/L	10.0
		Aluminum, Total	711		UG/L	200
		Arsenic, Total	30.7		UG/L	10.0
		Boron, Total	3760		UG/L	100
		Barium, Total	200	u	UG/L	200
		Beryllium, Total	5.0	u	UG/L	5.0
		Calcium, Total	5000	u	UG/L	5000
		Cadmium, Total	5.0	u	UG/L	5.0
		Cobalt, Total	50.0	u	UG/L	50.0
		Chromium, Total	720		UG/L	10.0
		Copper, Total	25.0	u	UG/L	25.0
		Iron, Total	1120		UG/L	100
		Mercury, Total	0.25	u	UG/L	0.25
		Potassium, Total	5000	u	UG/L	5000
		Magnesium, Total	5000	u	UG/L	5000
		Manganese, Total	15.0	u	UG/L	15.0
		Sodium, Total	77600		UG/L	5000
		Niobium, Total	200	u	UG/L	200
		Nickel, Total	40.0	u	UG/L	40.0
		Lead, Total	3.0	u	UG/L	3.0
		Antimony, Total	60.0	u	UG/L	60.0
		Selenium, Total	5.0	u	UG/L	5.0
		Strontium, Total	100	u	UG/L	100
		Titanium, Total	100	u	UG/L	100
		Thallium, Total	10.0	u	UG/L	10.0
		Vanadium, Total	92.8		UG/L	50.0
		Zinc, Total	29.1		UG/L	20.0
		Zirconium, Total	200	u	UG/L	200

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 04/12/91

CLIENT: TRC/SHIELDALLOY
WORK ORDER: 2724-05-01-0000

WESTON BATCH #: 9012L015

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-029	SMC-L-01	Silver, Total	29.4		UG/L	10.0
		Aluminum, Total	28500		UG/L	200
		Arsenic, Total	22.3		UG/L	10.0
		Barium, Total	274		UG/L	200
		Beryllium, Total	5.0	u	UG/L	5.0
		Calcium, Total	5000	u	UG/L	5000
		Cadmium, Total	5.0	u	UG/L	5.0
		Cobalt, Total	50.0	u	UG/L	50.0
		Chromium, Total	20800		UG/L	10.0
		Copper, Total	29.8		UG/L	25.0
		Iron, Total	161000		UG/L	100
		Mercury, Total	1.7		UG/L	0.25
		Potassium, Total	5000	u	UG/L	5000
		Magnesium, Total	5000	u	UG/L	5000
		Manganese, Total	623		UG/L	15.0
		Sodium, Total	47100		UG/L	5000
		Nickel, Total	40.0	u	UG/L	40.0
		Lead, Total	49.0		UG/L	30.0
		Antimony, Total	396		UG/L	60.0
		Selenium, Total	5.0	u	UG/L	5.0
		Thallium, Total	100	u	UG/L	100
		Vanadium, Total	239		UG/L	50.0
		Zinc, Total	800		UG/L	20.0

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 04/12/91

CLIENT: TRC/SHIELDALLOY
WORK ORDER: 2724-05-01-0000

WESTON BATCH #: 9012L015

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-030	SMC-LA-01	Silver, Total	20.8		UG/L	10.0
		Aluminum, Total	5250		UG/L	200
		Arsenic, Total	10.0	u	UG/L	10.0
		Barium, Total	493		UG/L	200
		Beryllium, Total	5.0	u	UG/L	5.0
		Calcium, Total	5000	u	UG/L	5000
		Cadmium, Total	5.0	u	UG/L	5.0
		Cobalt, Total	50.0	u	UG/L	50.0
		Chromium, Total	10400		UG/L	10.0
		Copper, Total	25.0	u	UG/L	25.0
		Iron, Total	77100		UG/L	100
		Mercury, Total	0.25	u	UG/L	0.25
		Potassium, Total	5000	u	UG/L	5000
		Magnesium, Total	5000	u	UG/L	5000
		Manganese, Total	880		UG/L	15.0
		Sodium, Total	50700		UG/L	5000
		Nickel, Total	40.0	u	UG/L	40.0
		Lead, Total	43.0		UG/L	30.0
		Antimony, Total	201		UG/L	60.0
		Selenium, Total	5.0	u	UG/L	5.0
		Thallium, Total	100	u	UG/L	100
		Vanadium, Total	119		UG/L	50.0
		Zinc, Total	897		UG/L	20.0

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 04/12/91

CLIENT: TRC/SHIELDALLOY
WORK ORDER: 2724-05-01-0000

WESTON BATCH #: 9012L015

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-031	SMC-W3S-01	Silver, Total	10.0	u	UG/L	10.0
		Aluminum, Total	812		UG/L	200
		Arsenic, Total	10.0	u	UG/L	10.0
		Boron, Total	100	u	UG/L	100
		Barium, Total	369		UG/L	200
		Beryllium, Total	5.0	u	UG/L	5.0
		Calcium, Total	13800		UG/L	5000
		Cadmium, Total	5.0	u	UG/L	5.0
		Cobalt, Total	50.0	u	UG/L	50.0
		Chromium, Total	13.6		UG/L	10.0
		Copper, Total	37.7		UG/L	25.0
		Iron, Total	385		UG/L	100
		Mercury, Total	0.43		UG/L	0.25
		Potassium, Total	5000	u	UG/L	5000
		Magnesium, Total	6380		UG/L	5000
		Manganese, Total	120		UG/L	15.0
		Sodium, Total	9280		UG/L	5000
		Niobium, Total	200	u	UG/L	200
		Nickel, Total	40.0	u	UG/L	40.0
		Lead, Total	137		UG/L	30.0
		Antimony, Total	60.0	u	UG/L	60.0
		Selenium, Total	5.0	u	UG/L	5.0
		Silicon, Total	3200		UG/L	100
		Strontium, Total	100	u	UG/L	100
		Titanium, Total	100	u	UG/L	100
		Thallium, Total	10.0	u	UG/L	10.0
		Vanadium, Total	50.0	u	UG/L	50.0
		Zinc, Total	118		UG/L	20.0
		Zirconium, Total	200	u	UG/L	200

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 04/12/91

CLIENT: TRC/SHIELDALLOY
WORK ORDER: 2724-05-01-0000

WESTON BATCH #: 9012L015

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-032	SMC-W3SA-01	Silver, Total	11.8		UG/L	10.0
		Aluminum, Total	628		UG/L	200
		Arsenic, Total	10.0	u	UG/L	10.0
		Boron, Total	100	u	UG/L	100
		Barium, Total	367		UG/L	200
		Beryllium, Total	5.0	u	UG/L	5.0
		Calcium, Total	13900		UG/L	5000
		Cadmium, Total	5.0	u	UG/L	5.0
		Cobalt, Total	50.0	u	UG/L	50.0
		Chromium, Total	10.0	u	UG/L	10.0
		Copper, Total	32.0		UG/L	25.0
		Iron, Total	100	u	UG/L	100
		Mercury, Total	0.25	u	UG/L	0.25
		Potassium, Total	5000	u	UG/L	5000
		Magnesium, Total	6380		UG/L	5000
		Manganese, Total	96.7		UG/L	15.0
		Sodium, Total	9290		UG/L	5000
		Niobium, Total	200	u	UG/L	200
		Nickel, Total	40.0	u	UG/L	40.0
		Lead, Total	108		UG/L	30.0
		Antimony, Total	60.0	u	UG/L	60.0
		Selenium, Total	5.0	u	UG/L	5.0
		Strontium, Total	100	u	UG/L	100
		Titanium, Total	100	u	UG/L	100
		Thallium, Total	10.0	u	UG/L	10.0
		Vanadium, Total	50.0	u	UG/L	50.0
		Zinc, Total	103		UG/L	20.0
		Zirconium, Total	200	u	UG/L	200

WESTON

Roy F. Weston, INC.
Lionville Laboratory

CLIENT:TRC/SHIELD ALLOY **SAMPLES RECEIVED:**12/19/90
RFW #:9012L015
W.O.#:2724-05-31

METALS NARRATIVE

The set of samples consisted of (29) water samples collected on 12/19/90.

The samples were analyzed according to criteria set forth in CLP SOW 7/87.

The following is a summary of the QC results accompanying these sample results and a description of any problems encountered during their analysis:

1. ICVs, CCVs, and LCSs stock standards were purchased from Inorganic Ventures Laboratory.

2. All ICV and CCV values were within control limits.

3. All ICB and CCB values were within control limits.

4. All preparation blank values were within control limits.

5. All LCS results were within the 80-120% control limits.

   Note: The USEPA has dropped control limits for antimony and silver due to documented difficulties in obtaining reliable results. WESTON Analytics has adopted the same policy.

6. All matrix spike recoveries were within the 75-125% control limits with the exception of As, Ag, Se, Tl and CN. All corresponding samples were flagged with an "N" according to CLP protocol.

7. All duplicate analyses were within the 20% RPD control limits with the exception of As. All corresponding samples were flagged with an "*" according to CLP protocol.

WESTON

8

8. Pb, As and Se sample results were calculated by the method of standard addition (MSA). All corresponding samples were flagged with an "S" according to CLP protocol.

Jack R. Tuschall, Ph.D.
Laboratory Manager
WESTON Analytical Laboratories

4/1/91
Date

U.S. EPA - CLP

EPA SAMPLE NO.

1

INORGANIC ANALYSIS DATA SHEET

SMC SC 45 01 | 60

Lab Name: WESTON-LIONVILLE Contract: 2724-05-01

Lab Code: WESTON Case No.: TRC SAS No.: SDG No.: CLP015

Matrix (soil/water): WATER Lab Sample ID: 9012015003

Level (low/med): LOW Date Received: 12/19/90

% 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	181	B		P
7440-36-0	Antimony	22.0	U		P
7440-38-2	Arsenic	2.0	U	N*	F
7440-39-3	Barium	10.0	U		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	4.0	U		P
7440-70-2	Calcium	851	B		P
7440-47-3	Chromium	1180		E	P
7440-48-4	Cobalt	7.0	U		P
7440-50-8	Copper	5.0	U		P
7439-89-6	Iron	412			P
7439-92-1	Lead	3.0	U	W	F
7439-95-4	Magnesium	213	B	E	P
7439-96-5	Manganese	9.7	B		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	10.0	U		P
7440-09-7	Potassium	2020	B		P
7782-49-2	Selenium	2.0	U	N	F
7440-22-4	Silver	4.0	U	N	P
7440-23-5	Sodium	20000		E	P
7440-28-0	Thallium	4.0	U	N	F
7440-62-2	Vanadium	6.0	U		P
7440-66-6	Zinc	11.8	B		P
	Cyanide	10.0	U	N	C

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SMC SC4SA 01

61

Lab Name: WESTON-LIONVILLE Contract: 2724-05-01

Lab Code: WESTON Case No.: TRC SAS No.: SDG No.: CLP015

Matrix (soil/water): WATER Lab Sample ID: 9012015004

Level (low/med): LOW Date Received: 12/19/90

% 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	113	U		P
7440-36-0	Antimony	28.5	B		P
7440-38-2	Arsenic	5.0	B	N*	F
7440-39-3	Barium	10.0	U		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	4.0	U		P
7440-70-2	Calcium	512	B		P
7440-47-3	Chromium	1150		E	P
7440-48-4	Cobalt	7.0	U		P
7440-50-8	Copper	5.0	U		P
7439-89-6	Iron	51.0	U		P
7439-92-1	Lead	3.0	U	W	F
7439-95-4	Magnesium	181	B	E	P
7439-96-5	Manganese	2.8	B		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	10.0	U		P
7440-09-7	Potassium	1520	B		P
7782-49-2	Selenium	20.0	U	N	F
7440-22-4	Silver	4.0	U	N	P
7440-23-5	Sodium	19900		E	P
7440-28-0	Thallium	40.0	U	N	F
7440-62-2	Vanadium	6.0	U		P
7440-66-6	Zinc	7.0	B		P
	Cyanide				

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

Zinc 90155 G1 62

Name: WESTON-LIONVILLE Contract: 2724-05-01

Lab Code: WESTON Case No.: TRC SAS No.: SDG No.: CLP015

Matrix (soil/water): WATER Lab Sample ID: 9012015005

Level (low/med): LOW Date Received: 12/19/90

% 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	113	U		P
7440-36-0	Antimony	22.0	U		P
7440-38-2	Arsenic	2.0	U	N*	F
7440-39-3	Barium	52.7	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	4.0	U		P
7440-70-2	Calcium	113000			P
7440-47-3	Chromium	4.0	U	E	P
7440-48-4	Cobalt	7.0	U		P
7440-50-8	Copper	5.0	U		P
7439-89-6	Iron	51.0	U		P
7439-92-1	Lead	3.0	U		F
7439-95-4	Magnesium	40000		E	P
7439-96-5	Manganese	128			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	10.0	U		P
7440-09-7	Potassium	44400			P
7782-49-2	Selenium	2.0	U	N	F
7440-22-4	Silver	4.0	U	N	P
7440-23-5	Sodium	6640		E	P
7440-28-0	Thallium	4.0	U	NW	F
7440-62-2	Vanadium	6.0	U		P
7440-66-6	Zinc	4.0	U		P
	Cyanide	10.0	U	N	C

lor Before: COLORLESS Clarity Before: CLEAR Texture:

lor After: COLORLESS Clarity After: CLEAR Artifacts:

nments:

U.S. EPA - CLP

EPA SAMPLE NO.

1

INORGANIC ANALYSIS DATA SHEET

SMC 5015A 01

Name: WESTON-LIONVILLE Contract: 2724-05-01

Lab Code: WESTON Case No.: TRC SAS No.: SDG No.: CLP015

Matrix (soil/water): WATER Lab Sample ID: 9012015006

Level (low/med): LOW Date Received: 12/19/90

% 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	113	U		P
7440-36-0	Antimony	22.0	U		P
7440-38-2	Arsenic	2.0	U	N*	F
7440-39-3	Barium	52.0	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	4.0	U		P
7440-70-2	Calcium	111000			P
7440-47-3	Chromium	4.0	U	E	P
7440-48-4	Cobalt	7.0	U		P
7440-50-8	Copper	5.0	U		P
7439-89-6	Iron	51.0	U		P
7439-92-1	Lead	3.0	U		F
7439-95-4	Magnesium	39300		E	P
7439-96-5	Manganese	126			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	10.0	U		P
7440-09-7	Potassium	44100			P
7782-49-2	Selenium	2.0	U	W N	F
7440-22-4	Silver	4.0	U	N	P
7440-23-5	Sodium	6500		E	P
7440-28-0	Thallium	4.0	U	NW	F
7440-62-2	Vanadium	6.0	U		P
7440-66-6	Zinc	8.0	B		P
	Cyanide				

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SMC 5012E C1

Lab Name: WESTON-LIONVILLE Contract: 2724-05-01

Lab Code: WESTON Case No.: TRC SAS No.: SDG No.: CLP015

Matrix (soil/water): WATER Lab Sample ID: 9012015007

Level (low/med): LOW Date Received: 12/19/90

% 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	113	U		P
7440-36-0	Antimony	22.0	U		P
7440-38-2	Arsenic	2.0	U	N*	F
7440-39-3	Barium	14.8	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	4.0	U		P
7440-70-2	Calcium	1600	B		P
7440-47-3	Chromium	4.0	U	E	P
7440-48-4	Cobalt	7.0	U		P
7440-50-8	Copper	19.6	B		P
7439-89-6	Iron	191			P
7439-92-1	Lead	3.0	U		F
7439-95-4	Magnesium	459	B	E	P
7439-96-5	Manganese	21.9			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	10.0	U		P
7440-09-7	Potassium	916	U		P
7782-49-2	Selenium	2.1	B	W N	F
7440-22-4	Silver	4.0	U	N	P
7440-23-5	Sodium	38400		E	P
7440-28-0	Thallium	4.0	U	NW	F
7440-62-2	Vanadium	6.0	U		P
7440-66-6	Zinc	7.0	B		P
	Cyanide	10.0	U	N	C

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

EPA SAMPLE NO.

1

INORGANIC ANALYSIS DATA SHEET

SMC 2015LA 01

55

Lab Name: WESTON-LIONVILLE Contract: 2724-05-01

Lab Code: WESTON Case No.: TRC SAS No.: SDG No.: CLP015

Matrix (soil/water): WATER Lab Sample ID: 9012015008

Level (low/med): LOW Date Received: 12/19/90

% 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	113	U		P
7440-36-0	Antimony	22.0	U		P
7440-38-2	Arsenic	2.0	U	N*	F
7440-39-3	Barium	13.9	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	4.0	U		P
7440-70-2	Calcium	1630	B		P
7440-47-3	Chromium	4.0	U	E	P
7440-48-4	Cobalt	7.0	U		P
7440-50-8	Copper	5.0	U		P
7439-89-6	Iron	51.0	U		P
7439-92-1	Lead	3.0	U	W	F
7439-95-4	Magnesium	450	B	E	P
7439-96-5	Manganese	19.0			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	10.0	U		P
7440-09-7	Potassium	1040	B		P
7782-49-2	Selenium	2.0	U	N	F
7440-22-4	Silver	4.0	U	N	P
7440-23-5	Sodium	40600		E	P
7440-28-0	Thallium	4.0	U	NW	F
7440-62-2	Vanadium	6.0	U		P
7440-66-6	Zinc	8.0	B		P
	Cyanide				

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

EPA SAMPLE NO.

1

INORGANIC ANALYSIS DATA SHEET

SMC 5017D 01 66

Lab Name: WESTON-LIONVILLE Contract: 2724-05-01

Lab Code: WESTON Case No.: TRC SAS No.: SDG No.: CLP015

Matrix (soil/water): WATER Lab Sample ID: 9012015009

Level (low/med): LOW Date Received: 12/19/90

% 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	20200			P
7440-36-0	Antimony	24.8	B		P
7440-38-2	Arsenic	2.1	B	N*	F
7440-39-3	Barium	150	B		P
7440-41-7	Beryllium	3.4	B		P
7440-43-9	Cadmium	4.0	U		P
7440-70-2	Calcium	32900			P
7440-47-3	Chromium	586		E	P
7440-48-4	Cobalt	7.0	U		P
7440-50-8	Copper	9.7	B		P
7439-89-6	Iron	42800			P
7439-92-1	Lead	3.0	U		F
7439-95-4	Magnesium	6500		E	P
7439-96-5	Manganese	300			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	10.0	U		P
7440-09-7	Potassium	23000			P
7782-49-2	Selenium	2.0	U	N	F
7440-22-4	Silver	4.0	U	N	P
7440-23-5	Sodium	93900		E	P
7440-28-0	Thallium	4.0	U	NW	F
7440-62-2	Vanadium	22.2	B		P
7440-66-6	Zinc	132			P
	Cyanide	10.0	U	N	C

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: WESTON-LIONVILLE Contract: 2724-05-01

Lab Code: WESTON Case No.: TRC SAS No.: SDG No.: CLP015

Matrix (soil/water): WATER Lab Sample ID: 9012015010

Level (low/med): LOW Date Received: 12/19/90

% 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	5490			P
7440-36-0	Antimony	25.9	B		P
7440-38-2	Arsenic	2.1	B	NW*	F
7440-39-3	Barium	48.6	B		P
7440-41-7	Beryllium	1.1	B		P
7440-43-9	Cadmium	4.0	U		P
7440-70-2	Calcium	12100			P
7440-47-3	Chromium	505		E	P
7440-48-4	Cobalt	7.0	U		P
7440-50-8	Copper	12.8	B		P
7439-89-6	Iron	11400			P
7439-92-1	Lead	3.0	U	W	F
7439-95-4	Magnesium	2090	B	E	P
7439-96-5	Manganese	80.5			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	10.0	U		P
7440-09-7	Potassium	17600			P
7782-49-2	Selenium	2.0	U	NS	F
7440-22-4	Silver	4.0	U	N	P
7440-23-5	Sodium	79900		E	P
7440-28-0	Thallium	4.0	U	NW	F
7440-62-2	Vanadium	23.5	B		P
7440-66-6	Zinc	53.3			P
	Cyanide				

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: WESTON-LIONVILLE Contract: 2724-05-01

Lab Code: WESTON Case No.: TRC SAS No.: SDG No.: CLP015

Matrix (soil/water): WATER Lab Sample ID: 9012015011

Level (low/med): LOW Date Received: 12/19/90

% 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	113	U		P
7440-36-0	Antimony	22.0	U		P
7440-38-2	Arsenic	2.0	U	N*	F
7440-39-3	Barium	20.6	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	4.0	U		P
7440-70-2	Calcium	532	B		P
7440-47-3	Chromium	4.0	U	E	P
7440-48-4	Cobalt	7.0	U		P
7440-50-8	Copper	5.0	U		P
7439-89-6	Iron	111			P
7439-92-1	Lead	4.1	B		F
7439-95-4	Magnesium	463	B	E	P
7439-96-5	Manganese	5.0	B		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	10.0	U		P
7440-09-7	Potassium	1140	B		P
7782-49-2	Selenium	2.5	B	W N	F
7440-22-4	Silver	4.0	U	N	P
7440-23-5	Sodium	42200		E	P
7440-28-0	Thallium	4.0	U	NW	F
7440-62-2	Vanadium	12.5	B		P
7440-66-6	Zinc	23.8			P
	Cyanide	10.0	U	N	C

olor Before: COLORLESS Clarity Before: CLEAR Texture:

olor After: COLORLESS Clarity After: CLEAR Artifacts:

omments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

Sm & Final 01 | 69

La. Name: WESTON-LIONVILLE Contract: 2724-05-01

Lab Code: WESTON Case No.: TRC SAS No.: SDG No.: CLP015

Matrix (soil/water): WATER Lab Sample ID: 9012015012

Level (low/med): LOW Date Received: 12/19/90

% 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	113	U		P
7440-36-0	Antimony	22.0	U		P
7440-38-2	Arsenic	2.0	U	N*	F
7440-39-3	Barium	19.5	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	4.0	U		P
7440-70-2	Calcium	515	B		P
7440-47-3	Chromium	4.0	U	E	P
7440-48-4	Cobalt	7.0	U		P
7440-50-8	Copper	5.0	U		P
7439-89-6	Iron	58.8	B		P
7439-92-1	Lead	9.3	B	S	F
7439-95-4	Magnesium	483	B	E	P
7439-96-5	Manganese	5.5	B		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	10.0	U		P
7440-09-7	Potassium	1390	B		P
7782-49-2	Selenium	2.6	B	W N	F
7440-22-4	Silver	4.0	U	N	P
7440-23-5	Sodium	40800		E	P
7440-28-0	Thallium	40.0	U	NW	F
7440-62-2	Vanadium	16.0	B		P
7440-66-6	Zinc	18.8	B		P
	Cyanide				

olor Before: COLORLESS Clarity Before: CLEAR Texture:

olor After: COLORLESS Clarity After: CLEAR Artifacts:

omments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SMC 013217 70

b Name: WESTON-LIONVILLE Contract: 2724-05-01

b Code: WESTON Case No.: TRC SAS No.: SDG No.: CLP015

trix (soil/water): WATER Lab Sample ID: 9012015014

vel (low/med): LOW Date Received: 12/19/90

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	113	U		P
7440-36-0	Antimony	22.0	U		P
7440-38-2	Arsenic	2.0	U	N*	F
7440-39-3	Barium	10.0	U		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	4.0	U		P
7440-70-2	Calcium	130	U		P
7440-47-3	Chromium	4.0	U	E	P
7440-48-4	Cobalt	7.0	U		P
7440-50-8	Copper	5.0	U		P
7439-89-6	Iron	51.0	U		P
7439-92-1	Lead	3.0	U	W	F
7439-95-4	Magnesium	184	B	E	P
7439-96-5	Manganese	2.0	U		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	10.0	U		P
7440-09-7	Potassium	916	U		P
7782-49-2	Selenium	2.0	U	W	F
7440-22-4	Silver	4.0	U	N	P
7440-23-5	Sodium	317	B	E	P
7440-28-0	Thallium	4.0	U	N	F
7440-62-2	Vanadium	15.0	B		P
7440-66-6	Zinc	6.9	B		P
	Cyanide	10.0	U	N	C

lor Before: COLORLESS Clarity Before: CLEAR Texture:

lor After: COLORLESS Clarity After: CLEAR Artifacts:

mments:

U.S. EPA - CLP

EPA SAMPLE NO.

1

INORGANIC ANALYSIS DATA SHEET

Lab Name: WESTON-LIONVILLE Contract: 2724-05-01

Lab Code: WESTON Case No.: TRC SAS No.: SDG No.: CLP015

Matrix (soil/water): WATER Lab Sample ID: 9012015015

Level (low/med): LOW Date Received: 12/19/90

% 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	1130			P
7440-36-0	Antimony	22.0	U		P
7440-38-2	Arsenic	2.0	U	NW*	F
7440-39-3	Barium	55.3	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	4.0	U		P
7440-70-2	Calcium	23100			P
7440-47-3	Chromium	120		E	P
7440-48-4	Cobalt	7.0	U		P
7440-50-8	Copper	5.0	U		P
7439-89-6	Iron	2110			P
7439-92-1	Lead	5.42		S	F
7439-95-4	Magnesium	9100		E	P
7439-96-5	Manganese	134			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	10.0	U		P
7440-09-7	Potassium	21400			P
7782-49-2	Selenium	2.0	U	WN	F
7440-22-4	Silver	4.0	U	N	P
7440-23-5	Sodium	42000		E	P
7440-28-0	Thallium	4.0	U	N	F
7440-62-2	Vanadium	20.5	B		P
7440-66-6	Zinc	12.9	B		P
	Cyanide	10.0	U	N	C

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

EPA SAMPLE NO.

1

INORGANIC ANALYSIS DATA SHEET

Sm C 3C 2024 C 1 72

ab Name: WESTON-LIONVILLE Contract: 2724-05-01

ab Code: WESTON Case No.: TRC SAS No.: SDG No.: CLP015

atrix (soil/water): WATER Lab Sample ID: 9012015016

evel (low/med): LOW Date Received: 12/19/90

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	113	U		P
7440-36-0	Antimony	22.0	U		P
7440-38-2	Arsenic	2.0	U	N*	F
7440-39-3	Barium	55.5	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	4.0	U		P
7440-70-2	Calcium	24400			P
7440-47-3	Chromium	118		E	P
7440-48-4	Cobalt	7.0	U		P
7440-50-8	Copper	5.0	U		P
7439-89-6	Iron	51.0	U		P
7439-92-1	Lead	3.0	U	W	F
7439-95-4	Magnesium	9660		E	P
7439-96-5	Manganese	140			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	10.0	U		P
7440-09-7	Potassium	22000			P
7782-49-2	Selenium	2.0	U	W N	F
7440-22-4	Silver	4.0	U	N	P
7440-23-5	Sodium	45200		E	P
7440-28-0	Thallium	4.0	U	N	F
7440-62-2	Vanadium	20.6	B		P
7440-66-6	Zinc	15.0	B		P
	Cyanide				

or Before: COLORLESS Clarity Before: CLEAR Texture:

or After: COLORLESS Clarity After: CLEAR Artifacts:

ments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SMC9015 C1 73

Name: WESTON-LIONVILLE Contract: 2724-05-01

Code: WESTON Case No.: TRC SAS No.: SDG No.: CLP015

rix (soil/water): WATER Lab Sample ID: 9012015017

el (low/med): LOW Date Received: 12/19/90

olids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	1620			P
7440-36-0	Antimony	22.0	U		P
7440-38-2	Arsenic	2.0	U	N*	F
7440-39-3	Barium	31.3	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	4.0	U		P
7440-70-2	Calcium	3170	B		P
7440-47-3	Chromium	67.9		E	P
7440-48-4	Cobalt	7.0	U		P
7440-50-8	Copper	5.0	U		P
7439-89-6	Iron	1720			P
7439-92-1	Lead	3.4	B		F
7439-95-4	Magnesium	8560		E	P
7439-96-5	Manganese	27.1			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	10.0	U		P
7440-09-7	Potassium	1940	B		P
7782-49-2	Selenium	2.2	B	W N	F
7440-22-4	Silver	4.0	U	N	P
7440-23-5	Sodium	12500		E	P
7440-28-0	Thallium	4.0	U	NW	F
7440-62-2	Vanadium	34.7	B		P
7440-66-6	Zinc	28.6			P
	Cyanide	10.0	U	N	C

Before: COLORLESS Clarity Before: CLEAR Texture:

After: COLORLESS Clarity After: CLEAR Artifacts:

ts:

U.S. EPA - CLP

EPA SAMPLE NO.

1

INORGANIC ANALYSIS DATA SHEET

Lab Name: WESTON-LIONVILLE Contract: 2724-05-01

Lab Code: WESTON Case No.: TRC SAS No.: SDG No.: CLP015

Matrix (soil/water): WATER Lab Sample ID: 9012015018

Level (low/med): LOW Date Received: 12/19/90

% 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	113	U		P
7440-36-0	Antimony	22.0	U		P
7440-38-2	Arsenic	2.0	U	N*	F
7440-39-3	Barium	40.8	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	4.0	U		P
7440-70-2	Calcium	4330	B		P
7440-47-3	Chromium	111		E	P
7440-48-4	Cobalt	7.0	U		P
7440-50-8	Copper	5.0	U		P
7439-89-6	Iron	51.0	U		P
7439-92-1	Lead	3.0	U	W	F
7439-95-4	Magnesium	11700		E	P
7439-96-5	Manganese	2.7	B		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	10.0	U		P
7440-09-7	Potassium	3390	B		P
7782-49-2	Selenium	2.0	U	W N	F
7440-22-4	Silver	10.9		N	P
7440-23-5	Sodium	9160		E	P
7440-28-0	Thallium	4.0	U	NW	F
7440-62-2	Vanadium	25.1	B		P
7440-66-6	Zinc	7.5	B		P
	Cyanide				

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

EPA SAMPLE NO.

1

INORGANIC ANALYSIS DATA SHEET

Sinc 2175 C1 75

am WESTON-LIONVILLE Contract: 2724-05-01

ode: WESTON Case No.: TRC SAS No.: SDG No.: CLP015

x (soil/water): WATER Lab Sample ID: 9012015019

(low/med): LOW Date Received: 12/19/90

ids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	2370			P
7440-36-0	Antimony	22.0	U		P
7440-38-2	Arsenic	2.0	U	N*	F
7440-39-3	Barium	57.8	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	4.0	U		P
7440-70-2	Calcium	11000			P
7440-47-3	Chromium	4.0	U	E	P
7440-48-4	Cobalt	7.0	U		P
7440-50-8	Copper	5.4	B		P
7439-89-6	Iron	14100			P
7439-92-1	Lead	3.0	U		F
7439-95-4	Magnesium	3340	B	E	P
7439-96-5	Manganese	74.2			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	10.0	U		P
7440-09-7	Potassium	2040	B		P
7782-49-2	Selenium	2.0	U	W N	F
7440-22-4	Silver	15.1		N	P
7440-23-5	Sodium	21200		E	P
7440-28-0	Thallium	4.0	U	NW	F
7440-62-2	Vanadium	33.3	B		P
7440-66-6	Zinc	52.6			P
	Cyanide	10.0	U	N	C

Before: COLORLESS Clarity Before: CLEAR Texture:

After: COLORLESS Clarity After: CLEAR Artifacts:

ts:

U.S. EPA - CLP

EPA SAMPLE NO.

1

INORGANIC ANALYSIS DATA SHEET

76

ab Name: WESTON-LIONVILLE Contract: 2724-05-01

ab Code: WESTON Case No.: TRC SAS No.: SDG No.: CLP015

atrix (soil/water): WATER Lab Sample ID: 9012015020

evel (low/med): LOW Date Received: 12/19/90

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	113	U		P
7440-36-0	Antimony	22.0	U		P
7440-38-2	Arsenic	2.0	U	N*	F
7440-39-3	Barium	31.3	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	4.0	U		P
7440-70-2	Calcium	11800			P
7440-47-3	Chromium	4.0	U	E	P
7440-48-4	Cobalt	7.0	U		P
7440-50-8	Copper	5.0	U		P
7439-89-6	Iron	51.0	U		P
7439-92-1	Lead	3.0	U		F
7439-95-4	Magnesium	3530	B	E	P
7439-96-5	Manganese	55.8			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	10.0	U		P
7440-09-7	Potassium	1390	B		P
7782-49-2	Selenium	2.0	U	N	F
7440-22-4	Silver	8.4	B	N	P
7440-23-5	Sodium	22200		E	P
7440-28-0	Thallium	4.0	U	NW	F
7440-62-2	Vanadium	20.0	B		P
7440-66-6	Zinc	22.0			P
	Cyanide				

or Before: COLORLESS Clarity Before: CLEAR Texture:

or After: COLORLESS Clarity After: CLEAR Artifacts:

ments:

U.S. EPA - CLP

EPA SAMPLE NO.

1

INORGANIC ANALYSIS DATA SHEET

77

Lab Name: WESTON-LIONVILLE Contract: 2724-05-01

Lab Code: WESTON Case No.: TRC SAS No.: SDG No.: CLP015

Matrix (soil/water): WATER Lab Sample ID: 9012015022

Level (low/med): LOW Date Received: 12/19/90

% 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	113	U		P
7440-36-0	Antimony	22.0	U		P
7440-38-2	Arsenic	2.0	U	N*	F
7440-39-3	Barium	219			P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	4.0	U		P
7440-70-2	Calcium	4310	B		P
7440-47-3	Chromium	4.0	U	E	P
7440-48-4	Cobalt	7.0	U		P
7440-50-8	Copper	5.0	U		P
7439-89-6	Iron	79.8	B		P
7439-92-1	Lead	6.7		W	F
7439-95-4	Magnesium	5600		E	P
7439-96-5	Manganese	79.6			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	10.0	U		P
7440-09-7	Potassium	1760	B		P
7782-49-2	Selenium	2.0	U	N	F
7440-22-4	Silver	14.3		N	P
7440-23-5	Sodium	7240		E	P
7440-28-0	Thallium	4.0	U	NW	F
7440-62-2	Vanadium	26.1	B		P
7440-66-6	Zinc	24.6			P
	Cyanide	10.0	U	N	C

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

Sample 30A1 78

Name: WESTON-LIONVILLE Contract: 2724-05-01

Code: WESTON Case No.: TRC SAS No.: SDG No.: CLP015

Matrix (soil/water): WATER Lab Sample ID: 9012015023

Level (low/med): LOW Date Received: 12/19/90

% 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	113	U		P
7440-36-0	Antimony	22.0	U		P
7440-38-2	Arsenic	2.0	U	N*	F
7440-39-3	Barium	269			P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	4.0	U		P
7440-70-2	Calcium	5330			P
7440-47-3	Chromium	4.0	U	E	P
7440-48-4	Cobalt	7.0	U		P
7440-50-8	Copper	5.0	U		P
7439-89-6	Iron	51.0	U		P
7439-92-1	Lead	7.0			F
7439-95-4	Magnesium	6800		E	P
7439-96-5	Manganese	76.4			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	10.0	U		P
7440-09-7	Potassium	2370	B		P
7782-49-2	Selenium	20.0	U	W N	F
7440-22-4	Silver	4.0	U	N	P
7440-23-5	Sodium	8250		E	P
7440-28-0	Thallium	4.0	U	NW	F
7440-62-2	Vanadium	6.0	U		P
7440-66-6	Zinc	18.3	B		P
	Cyanide				

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

Sinc 5027 G1

79

Lab Name: WESTON-LIONVILLE Contract: 2724-05-01

Lab Code: WESTON Case No.: TRC SAS No.: SDG No.: CLP015

Matrix (soil/water): WATER Lab Sample ID: 9012015024

Level (low/med): LOW Date Received: 12/19/90

% 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	195	B		P
7440-36-0	Antimony	22.0	U		P
7440-38-2	Arsenic	2.0	U	N*	F
7440-39-3	Barium	287			P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	4.0	U		P
7440-70-2	Calcium	5750			P
7440-47-3	Chromium	6.4	B	E	P
7440-48-4	Cobalt	7.0	U		P
7440-50-8	Copper	5.0	U		P
7439-89-6	Iron	96.8	B		P
7439-92-1	Lead	7.9			F
7439-95-4	Magnesium	7240		E	P
7439-96-5	Manganese	115			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	10.0	U		P
7440-09-7	Potassium	2580	B		P
7782-49-2	Selenium	2.0	U	W N	F
7440-22-4	Silver	4.0	U	N	P
7440-23-5	Sodium	8770		E	P
7440-28-0	Thallium	4.0	U	N	F
7440-62-2	Vanadium	6.0	U		P
7440-66-6	Zinc	23.0			P
	Cyanide	10.0	U	N	C

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

Sing. Sc. 275 A: 1 | 8C

b Name: WESTON-LIONVILLE Contract: 2724-05-01

b Code: WESTON Case No.: TRC SAS No.: SDG No.: CLP015

trix (soil/water): WATER Lab Sample ID: 9012015025

vel (low/med): LOW Date Received: 12/19/90

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	113	U		P
7440-36-0	Antimony	22.0	U		P
7440-38-2	Arsenic	2.0	U	N*	F
7440-39-3	Barium	224			P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	4.0	U		P
7440-70-2	Calcium	4220	B		P
7440-47-3	Chromium	4.0	U	E	P
7440-48-4	Cobalt	7.0	U		P
7440-50-8	Copper	5.0	U		P
7439-89-6	Iron	51.0	U		P
7439-92-1	Lead	3.0	U		F
7439-95-4	Magnesium	5720		E	P
7439-96-5	Manganese	56.5			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	10.0	U		P
7440-09-7	Potassium	1680	B		P
7782-49-2	Selenium	2.0	U	N	F
7440-22-4	Silver	12.2		N	P
7440-23-5	Sodium	7250		E	P
7440-28-0	Thallium	4.0	U	NW	F
7440-62-2	Vanadium	22.8	B		P
7440-66-6	Zinc	26.3			P
	Cyanide				

lor Before: COLORLESS Clarity Before: CLEAR Texture:

lor After: COLORLESS Clarity After: CLEAR Artifacts:

mments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SMC 615.1

81

Lab Name: WESTON-LIONVILLE Contract: 2724-05-01

Lab Code: WESTON Case No.: TRC SAS No.: SDG No.: CLP015

Matrix (soil/water): WATER Lab Sample ID: 9012015027

Level (low/med): LOW Date Received: 12/19/90

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	2470			P
7440-36-0	Antimony	61.2			P
7440-38-2	Arsenic	8.8	B	N*	F
7440-39-3	Barium	76.3	B		P
7440-41-7	Beryllium	1.2	B		P
7440-43-9	Cadmium	4.0	U		P
7440-70-2	Calcium	1400	B		P
7440-47-3	Chromium	2530		E	P
7440-48-4	Cobalt	15.2	B		P
7440-50-8	Copper	51.4			P
7439-89-6	Iron	149000			P
7439-92-1	Lead	75.0			F
7439-95-4	Magnesium	1190	B	E	P
7439-96-5	Manganese	3690			P
7439-97-6	Mercury	0.68			CV
7440-02-0	Nickel	12.7	B		P
7440-09-7	Potassium	2640	B		P
7782-49-2	Selenium	2.0	U	N	F
7440-22-4	Silver	30.3		N	P
7440-23-5	Sodium	72000		E	P
7440-28-0	Thallium	40.0	U	N	F
7440-62-2	Vanadium	135			P
7440-66-6	Zinc	1130			P
	Cyanide	10.0	U	N	C

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

EPA SAMPLE NO.

1

INORGANIC ANALYSIS DATA SHEET

Lab Name: WESTON-LIONVILLE Contract: 2724-05-01

Lab Code: WESTON Case No.: TRC SAS No.: SDG No.: CLP015

Matrix (soil/water): WATER Lab Sample ID: 9012015028

Level (low/med): LOW Date Received: 12/19/90

% 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	711			P
7440-36-0	Antimony	22.6	B		P
7440-38-2	Arsenic	30.7		N*	F
7440-39-3	Barium	10.0	U		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	4.0	U		P
7440-70-2	Calcium	285	B		P
7440-47-3	Chromium	720		E	P
7440-48-4	Cobalt	7.0	U		P
7440-50-8	Copper	5.0	U		P
7439-89-6	Iron	1120			P
7439-92-1	Lead	3.0	U	W	F
7439-95-4	Magnesium	236	B	E	P
7439-96-5	Manganese	11.0	B		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	10.0	U		P
7440-09-7	Potassium	3330	B		P
7782-49-2	Selenium	2.2	B	N	F
7440-22-4	Silver	11.3		N	P
7440-23-5	Sodium	77600		E	P
7440-28-0	Thallium	4.0	U	NW	F
7440-62-2	Vanadium	92.8			P
7440-66-6	Zinc	29.1			P
	Cyanide				

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

EPA SAMPLE NO.

1

INORGANIC ANALYSIS DATA SHEET

Sinc-L-01 83

Lab Name: WESTON-LIONVILLE Contract: 2724-05-01

Lab Code: WESTON Case No.: TRC SAS No.: SDG No.: CLP015

Matrix (soil/water): WATER Lab Sample ID: 9012015029

Level (low/med): LOW Date Received: 12/19/90

% 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	28500			P
7440-36-0	Antimony	396			P
7440-38-2	Arsenic	22.3		NS*	F
7440-39-3	Barium	274			P
7440-41-7	Beryllium	1.4	B		P
7440-43-9	Cadmium	4.0	U		P
7440-70-2	Calcium	2270	B		P
7440-47-3	Chromium	20800		E	P
7440-48-4	Cobalt	24.8	B		P
7440-50-8	Copper	29.8			P
7439-89-6	Iron	161000			P
7439-92-1	Lead	49.0	B		F
7439-95-4	Magnesium	1400	B	E	P
7439-96-5	Manganese	623			P
7439-97-6	Mercury	1.7			CV
7440-02-0	Nickel	11.0	B		P
7440-09-7	Potassium	3010	B		P
7782-49-2	Selenium	2.0	U	W N	F
7440-22-4	Silver	29.4		N	P
7440-23-5	Sodium	47100		E	P
7440-28-0	Thallium	40.0	U	N	F
7440-62-2	Vanadium	239			P
7440-66-6	Zinc	800			P
	Cyanide	10.0	U	N	C

›lor Before: COLORLESS Clarity Before: CLEAR Texture:

›lor After: COLORLESS Clarity After: CLEAR Artifacts:

›mments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SMC LAC 83

Lab Name: WESTON-LIONVILLE Contract: 2724-05-01

Lab Code: WESTON Case No.: TRC SAS No.: SDG No.: CLP015

Matrix (soil/water): WATER Lab Sample ID: 9012015030

Level (low/med): LOW Date Received: 12/19/90

% 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	5250			P
7440-36-0	Antimony	201			P
7440-38-2	Arsenic	7.9	B	N*	F
7440-39-3	Barium	493			P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	4.0	U		P
7440-70-2	Calcium	4040	B		P
7440-47-3	Chromium	10400		E	P
7440-48-4	Cobalt	14.3	B		P
7440-50-8	Copper	5.0	U		P
7439-89-6	Iron	77100			P
7439-92-1	Lead	43.0	B		F
7439-95-4	Magnesium	1360	B	E	P
7439-96-5	Manganese	880			P
7439-97-6	Mercury	0.24			CV
7440-02-0	Nickel	13.5	B		P
7440-09-7	Potassium	3190	B		P
7782-49-2	Selenium	2.0	U	N	F
7440-22-4	Silver	20.8		N	P
7440-23-5	Sodium	50700		E	P
7440-28-0	Thallium	40.0	U	N	F
7440-62-2	Vanadium	119			P
7440-66-6	Zinc	897			P
	Cyanide				

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

Sinc 2 3 2 | 8.1

Lab Name: WESTON-LIONVILLE Contract: 2724-05-01

Lab Code: WESTON Case No.: TRC SAS No.: SDG No.: CLP015

Matrix (soil/water): WATER Lab Sample ID: 9012015031

Level (low/med): LOW Date Received: 12/19/90

% 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	812			P
7440-36-0	Antimony	22.0	U		P
7440-38-2	Arsenic	2.0	U	N*	F
7440-39-3	Barium	369			P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	4.0	U		P
7440-70-2	Calcium	13800			P
7440-47-3	Chromium	13.6		E	P
7440-48-4	Cobalt	7.0	U		P
7440-50-8	Copper	37.7			P
7439-89-6	Iron	385			P
7439-92-1	Lead	137			F
7439-95-4	Magnesium	6380		E	P
7439-96-5	Manganese	120			P
7439-97-6	Mercury	0.43			CV
7440-02-0	Nickel	10.0	U		P
7440-09-7	Potassium	4310	B		P
7782-49-2	Selenium	2.0	U	N	F
7440-22-4	Silver	4.0	U	N	P
7440-23-5	Sodium	9280		E	P
7440-28-0	Thallium	4.0	U	NW	F
7440-62-2	Vanadium	31.7	B		P
7440-66-6	Zinc	118			P
	Cyanide	10.0	U	N	C

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

85

EPA SAMPLE NO.

1

INORGANIC ANALYSIS DATA SHEET

Sm 2
W3SA01

Lab Name: WESTON-LIONVILLE Contract: 2724-05-01

Lab Code: WESTON Case No.: TRC SAS No.: SDG No.: CLP015

Matrix (soil/water): WATER Lab Sample ID: 9012015032

Level (low/med): LOW Date Received: 12/19/90

% 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	628			P
7440-36-0	Antimony	22.0	U		P
7440-38-2	Arsenic	2.0	U	N*	F
7440-39-3	Barium	367			P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	4.0	U		P
7440-70-2	Calcium	13900			P
7440-47-3	Chromium	9.5	B	E	P
7440-48-4	Cobalt	7.0	U		P
7440-50-8	Copper	32.0			P
7439-89-6	Iron	55.4	B		P
7439-92-1	Lead	63.6		S	F
7439-95-4	Magnesium	6380		E	P
7439-96-5	Manganese	96.7			P
7439-97-6	Mercury	0.24			CV
7440-02-0	Nickel	10.0	U		P
7440-09-7	Potassium	4480	B		P
7782-49-2	Selenium	2.0	U	N	F
7440-22-4	Silver	11.8		N	P
7440-23-5	Sodium	9290		E	P
7440-28-0	Thallium	4.0	U	N	F
7440-62-2	Vanadium	26.3	B		P
7440-66-6	Zinc	103			P
	Cyanide				

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

15A

ROY F. WESTON, INC.
Lionville Laboratory

CLIENT: TRC-SHIELD ALLOY **SAMPLES RECEIVED:** 04-16-91
RFW #: 9104L295, GC/MS VOLATILE
W.O. #: 2724-05-01

NARRATIVE

The set of samples consisted of nineteen (19) water samples collected on 04-16-91.

The samples were analyzed according to criteria set forth in CLP SOW 02/88 (Rev. 05/89) for TCL Volatile target compounds on 04-17,18,19,22-91.

The following is a summary of the QC results accompanying these sample results and a description of any problems encountered during their analysis:

1. Non-target compounds were not detected in these samples.

2. Three (3) of seventy-five (75) surrogate recoveries were outside EPA QC limits. EPA QC Surrogate recovery criteria were not met for sample SMC-B-02. The associated matrix spike and matrix spike duplicate analyses of the sample SMC-B-02 fulfilled its re-analysis requirements.

3. All matrix spike recoveries were within EPA QC limits.

4. The laboratory blanks contained the common contaminants methylene chloride and acetone at levels less than 3x the CRQL.

5. Internal standard area and retention time criteria were met for all samples and blanks.

Linda A. Hayes 6.6.91

Jack R. Tuschall, Ph.D. Date
Laboratory Manager
Lionville Analytical Laboratory

WESTON

GLOSSARY OF VOA DATA 0000015

DATA QUALIFIERS

U = Compound was analyzed for but not detected. The associated numerical value is the estimated sample quantitation limit which is included and corrected for dilution and percent moisture.

J = Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicate the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero; for example, if the limit of detection is 10 ug/L and a concentration of 3 ug/L is calculated, it is reported as 3J.

B = This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates possible/probable blank contamination. This flag is also used for a TIC as well as for a positively identified TCL compound.

E = Indicates that the compound was detected beyond the calibration range and was subsequently analyzed at a dilution.

I = Interference.

X = Additional qualifiers used as required are explained in the case narrative.

NQ = Result qualitatively confirmed but not able to quantify.

ABBREVIATIONS

BS = Indicates blank spike in which reagent grade water is spiked with the CLP matrix spiking solutions and carried through all the steps in the method. Spike recoveries are reported.

BSD = Indicates blank spike duplicate.

MS = Indicates matrix spike.

MSD = Indicates matrix spike duplicate.

DL = Indicates that surrogate recoveries were not obtained because the extract had to be diluted for analysis.

NA = Not applicable.

DF = Dilution factor.

NR = Not required.

1A

VOLATILE ORGANICS ANALYSIS SHEET 0000030

CLIENT SAMPLE NO.

SMC-A-02

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9104L295-001

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: P042205

Level: (low/med) LOW

Date Received: 04/16/91

% Moisture: not dec. _____

Date Analyzed: 04/22/91

Column: (pack/cap) CAP

Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
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	24	B
67-64-1	Acetone	5	JB
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	120	
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	Xylene (total)	5	U

1E

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

0000031

CLIENT SAMPLE NO.

SMC-A-02

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9104L295-001

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: P042205

Level: (low/med) LOW

Date Received: 04/16/91

% Moisture: not dec. _____

Date Analyzed: 04/22/91

Column: (pack/cap) CAP

Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1A
VOLATILE ORGANICS ANALYSIS SHEET 0000042

CLIENT SAMPLE NO.

SMC-SC255-02

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER Lab Sample ID: 9104L295-002

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: P041715

Level: (low/med) LOW Date Received: 04/16/91

% Moisture: not dec. _____ Date Analyzed: 04/18/91

Column: (pack/cap) CAP Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
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	20	B
67-64-1	Acetone	5	JB
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	110	
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	Xylene (total)	5	U

1E

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS 0000043

CLIENT SAMPLE NO.

SMC-SC255-02

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9104L295-002

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: P041715

Level: (low/med) LOW

Date Received: 04/16/91

% Moisture: not dec. _____

Date Analyzed: 04/18/91

Column: (pack/cap) CAP

Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1A
VOLATILE ORGANICS ANALYSIS SHEET 0000054

CLIENT SAMPLE NO.

SMC-B-02

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9104L295-003

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: P041806

Level: (low/med) LOW

Date Received: 04/16/91

% Moisture: not dec. _____

Date Analyzed: 04/18/91

Column: (pack/cap) CAP

Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
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	10	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	2	J
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	Xylene (total)	5	U

1E

VOLATILE ORGANICS ANALYSIS SHEET

TENTATIVELY IDENTIFIED COMPOUNDS 0000055

CLIENT SAMPLE NO.

SMC-B-02

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9104L295-003

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: P041806

Level: (low/med) LOW

Date Received: 04/16/91

% Moisture: not dec. _____

Date Analyzed: 04/18/91

Column: (pack/cap) CAP

Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1A
VOLATILE ORGANICS ANALYSIS SHEET 0000064

CLIENT SAMPLE NO.

SMC-H-02

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9104L295-004

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: P041807

Level: (low/med) LOW

Date Received: 04/16/91

% Moisture: not dec. _____

Date Analyzed: 04/18/91

Column: (pack/cap) CAP

Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
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	15	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	Xylene (total)	5	U

1E

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

0000065

CLIENT SAMPLE NO.

SMC-H-02

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9104L295-004

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: P041807

Level: (low/med) LOW

Date Received: 04/16/91

% Moisture: not dec. _____

Date Analyzed: 04/18/91

Column: (pack/cap) CAP

Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1A

VOLATILE ORGANICS ANALYSIS SHEET 0000072

CLIENT SAMPLE NO.

SMC-L-02

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER Lab Sample ID: 9104L295-005

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: P041808

Level: (low/med) LOW Date Received: 04/16/91

% Moisture: not dec. _____ Date Analyzed: 04/18/91

Column: (pack/cap) CAP Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
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	12	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	Xylene (total)	5	U

1E

VOLATILE ORGANICS ANALYSIS SHEET

TENTATIVELY IDENTIFIED COMPOUNDS 0000073

CLIENT SAMPLE NO.

SMC-L-02

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9104L295-005

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: P041808

Level: (low/med) LOW

Date Received: 04/16/91

% Moisture: not dec. _____

Date Analyzed: 04/18/91

Column: (pack/cap) CAP

Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1A
VOLATILE ORGANICS ANALYSIS SHEET

0000080

CLIENT SAMPLE NO.

SMC-W4-02

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9104L295-006

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: P041809

Level: (low/med) LOW

Date Received: 04/16/91

% Moisture: not dec. _____

Date Analyzed: 04/18/91

Column: (pack/cap) CAP

Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	
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	14	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	Xylene (total)	5	U

1E

VOLATILE ORGANICS ANALYSIS SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

0000081

CLIENT SAMPLE NO.

SMC-W4-02

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9104L295-006

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: P041809

Level: (low/med) LOW

Date Received: 04/16/91

% Moisture: not dec. _____

Date Analyzed: 04/18/91

Column: (pack/cap) CAP

Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1A
VOLATILE ORGANICS ANALYSIS SHEET

0000088

CLIENT SAMPLE NO.

SMC-SC6S-02

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9104L295-007

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: P041810

Level: (low/med) LOW

Date Received: 04/16/91

% Moisture: not dec. _____

Date Analyzed: 04/18/91

Column: (pack/cap) CAP

Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
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	14	B
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	2	J
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	12	
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	9	
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	55	
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	Xylene (total)	5	U

1E

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

0000089

CLIENT SAMPLE NO.

SMC-SC6S-02

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9104L295-007

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: P041810

Level: (low/med) LOW

Date Received: 04/16/91

% Moisture: not dec. _____

Date Analyzed: 04/18/91

Column: (pack/cap) CAP

Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

FORM 1 VOA-TIC 12/88 Rev.

1A
VOLATILE ORGANICS ANALYSIS SHEET 0000104

CLIENT SAMPLE NO.

SMC-SC6D-02

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9104L295-008

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: P041811

Level: (low/med) LOW

Date Received: 04/16/91

% Moisture: not dec. _____

Date Analyzed: 04/18/91

Column: (pack/cap) CAP

Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
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	13	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	51	
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	Xylene (total)	5	U

1E

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

0000105

CLIENT SAMPLE NO.

SMC-SC6D-02

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9104L295-008

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: P041811

Level: (low/med) LOW

Date Received: 04/16/91

% Moisture: not dec. _____

Date Analyzed: 04/18/91

Column: (pack/cap) CAP

Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1A
VOLATILE ORGANICS ANALYSIS SHEET 0000114

CLIENT SAMPLE NO.

SMC-SC10S-02

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9104L295-009

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: P041812

Level: (low/med) LOW

Date Received: 04/16/91

% Moisture: not dec. _____

Date Analyzed: 04/18/91

Column: (pack/cap) CAP

Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
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	10	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	1	J
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	Xylene (total)	5	U

1E

VOLATILE ORGANICS ANALYSIS SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

0000115

CLIENT SAMPLE NO.

SMC-SC10S-02

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9104L295-009

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: P041812

Level: (low/med) LOW

Date Received: 04/16/91

% Moisture: not dec. _____

Date Analyzed: 04/18/91

Column: (pack/cap) CAP

Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1A
VOLATILE ORGANICS ANALYSIS SHEET

0000124

CLIENT SAMPLE NO.

SMC-SC10D-02

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9104L295-010

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: P041813

Level: (low/med) LOW

Date Received: 04/16/91

% Moisture: not dec. _____

Date Analyzed: 04/18/91

Column: (pack/cap) CAP

Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
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	11	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	1	J
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	Xylene (total)	5	U

1E

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS 0000125

CLIENT SAMPLE NO.

SMC-SC10D-02

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9104L295-010

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: P041813

Level: (low/med) LOW

Date Received: 04/16/91

% Moisture: not dec. _____

Date Analyzed: 04/18/91

Column: (pack/cap) CAP

Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1A
VOLATILE ORGANICS ANALYSIS SHEET 0000134

CLIENT SAMPLE NO.

SMC-SC24S-02

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9104L295-011

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: P041814

Level: (low/med) LOW

Date Received: 04/16/91

% Moisture: not dec. _____

Date Analyzed: 04/18/91

Column: (pack/cap) CAP

Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
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	12	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	Xylene (total)	5	U

1E

VOLATILE ORGANICS ANALYSIS SHEET

TENTATIVELY IDENTIFIED COMPOUNDS 0000135

CLIENT SAMPLE NO.

SMC-SC24S-02

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9104L295-011

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: P041814

Level: (low/med) LOW

Date Received: 04/16/91

% Moisture: not dec. _____

Date Analyzed: 04/18/91

Column: (pack/cap) CAP

Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1A
VOLATILE ORGANICS ANALYSIS SHEET 0000142

CLIENT SAMPLE NO.

SMC-IW1-02

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9104L295-012

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: P041815

Level: (low/med) LOW

Date Received: 04/16/91

% Moisture: not dec. _____

Date Analyzed: 04/18/91

Column: (pack/cap) CAP

Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
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	14	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	6	
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	Xylene (total)	5	U

1E

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

0000143

CLIENT SAMPLE NO.

SMC-IW1-02

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9104L295-012

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: P041815

Level: (low/med) LOW

Date Received: 04/16/91

% Moisture: not dec. _____

Date Analyzed: 04/18/91

Column: (pack/cap) CAP

Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1A

VOLATILE ORGANICS ANALYSIS SHEET 0000152

CLIENT SAMPLE NO.

SMC-SC1S-02

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9104L295-013

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: P041816

Level: (low/med) LOW

Date Received: 04/16/91

% Moisture: not dec. _____

Date Analyzed: 04/18/91

Column: (pack/cap) CAP

Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
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	12	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	
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	Xylene (total)	5	U

1E

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

0000153

CLIENT SAMPLE NO.

SMC-SC1S-02

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9104L295-013

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: P041816

Level: (low/med) LOW

Date Received: 04/16/91

% Moisture: not dec. _____

Date Analyzed: 04/18/91

Column: (pack/cap) CAP

Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1A
VOLATILE ORGANICS ANALYSIS SHEET 0000162

CLIENT SAMPLE NO.

SMC-SC1D-02

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9104L295-014

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: P041817

Level: (low/med) LOW

Date Received: 04/16/91

% Moisture: not dec. _____

Date Analyzed: 04/18/91

Column: (pack/cap) CAP

Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
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	11	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	4	J
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	Xylene (total)	5	U

1E

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

0000163

CLIENT SAMPLE NO.

SMC-SC1D-02

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9104L295-014

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: P041817

Level: (low/med) LOW

Date Received: 04/16/91

% Moisture: not dec. _____

Date Analyzed: 04/18/91

Column: (pack/cap) CAP

Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1A
VOLATILE ORGANICS ANALYSIS SHEET

0000172

CLIENT SAMPLE NO.

SMC-SC4S-02

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER Lab Sample ID: 9104L295-015

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: P041818

Level: (low/med) LOW Date Received: 04/16/91

% Moisture: not dec. _____ Date Analyzed: 04/18/91

Column: (pack/cap) CAP Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
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	13	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)	33	
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	4	J
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	55	
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	Xylene (total)	5	U

1E

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS 0000173

CLIENT SAMPLE NO.

SMC-SC4S-02

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9104L295-015

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: P041818

Level: (low/med) LOW

Date Received: 04/16/91

% Moisture: not dec. _____

Date Analyzed: 04/18/91

Column: (pack/cap) CAP

Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1A

VOLATILE ORGANICS ANALYSIS SHEET 0000186

CLIENT SAMPLE NO.

SMC-FB1-041691

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9104L295-017

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: P041908

Level: (low/med) LOW

Date Received: 04/16/91

% Moisture: not dec. _____

Date Analyzed: 04/19/91

Column: (pack/cap) CAP

Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
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	15	B
67-64-1	Acetone	7	JB
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	2	J
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

1E

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS 0000187

CLIENT SAMPLE NO.

SMC-FB1-041691

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9104L295-017

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: P041908

Level: (low/med) LOW

Date Received: 04/16/91

% Moisture: not dec. _____

Date Analyzed: 04/19/91

Column: (pack/cap) CAP

Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1A
VOLATILE ORGANICS ANALYSIS SHEET 0000198

CLIENT SAMPLE NO.

SMC-TB1-041691

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER Lab Sample ID: 9104L295-018

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: P041905

Level: (low/med) LOW Date Received: 04/16/91

% Moisture: not dec. _____ Date Analyzed: 04/19/91

Column: (pack/cap) CAP Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
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	17	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	Xylene (total)	5	U

1E

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS 0000199

CLIENT SAMPLE NO.

SMC-TB1-041691

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9104L295-018

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: P041905

Level: (low/med) LOW

Date Received: 04/16/91

% Moisture: not dec. _____

Date Analyzed: 04/19/91

Column: (pack/cap) CAP

Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1A
VOLATILE ORGANICS ANALYSIS SHEET

0000206

CLIENT SAMPLE NO.

SMC-TB2-041691

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9104L295-019

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: P041906

Level: (low/med) LOW

Date Received: 04/16/91

% Moisture: not dec. _____

Date Analyzed: 04/19/91

Column: (pack/cap) CAP

Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	
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	16	B
67-64-1	Acetone	7	JB
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	2	J
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

1E

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

0000207

CLIENT SAMPLE NO.

SMC-TB2-041691

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9104L295-019

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: P041906

Level: (low/med) LOW

Date Received: 04/16/91

% Moisture: not dec. _____

Date Analyzed: 04/19/91

Column: (pack/cap) CAP

Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1A

VOLATILE ORGANICS ANALYSIS SHEET 0000218

CLIENT SAMPLE NO.

SMC-TB3-041691

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9104L295-020

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: P042206

Level: (low/med) LOW

Date Received: 04/16/91

% Moisture: not dec. _____

Date Analyzed: 04/22/91

Column: (pack/cap) CAP

Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
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	22	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	Xylene (total)	5	U

1E

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS 0000219

CLIENT SAMPLE NO.

SMC-TB3-041691

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9104L295-020

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: P042206

Level: (low/med) LOW

Date Received: 04/16/91

% Moisture: not dec. _____

Date Analyzed: 04/22/91

Column: (pack/cap) CAP

Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

Roy F. Weston, Inc. - Lionville Laboratory
VOA ANALYTICAL DATA PACKAGE FOR
TRC/SHIELDALLOY

DATE RECEIVED: 04/18/91 RFW LOT # :9104L316

CLIENT ID	RFW #	MTX	PREP #	COLLECTION	EXTR/PREP	ANALYSIS
SMC-SC14S-02	001	W	91LVW058	04/17/91	N/A	04/19/91
SMC-SC27-02	002	W	91LVW058	04/17/91	N/A	04/19/91
SMC-SC15S-02	003	W	91LVW058	04/17/91	N/A	04/19/91
SMC-SC16S-02	004	W	91LVW058	04/17/91	N/A	04/19/91
SMC-SC20S-02	005	W	91LVW058	04/17/91	N/A	04/19/91
SMC-SC20S-02	005 D1	W	91LVW062	04/17/91	N/A	04/26/91
SMC-SC20S-02	005 MS	W	91LVW062	04/17/91	N/A	04/26/91
SMC-SC20S-02	005 MSD	W	91LVW062	04/17/91	N/A	04/26/91
SMC-SC22S-02	006	W	91LVW058	04/17/91	N/A	04/19/91
SMC-SC22D-02	007	W	91LVW061	04/17/91	N/A	04/25/91
SMC-SC17S-02	008	W	91LVW058	04/17/91	N/A	04/19/91
SMC-SC17D-02	009	W	91LVW061	04/17/91	N/A	04/25/91
SMC-SC23S-02	010	W	91LVW058	04/17/91	N/A	04/19/91
SMC-SC23S-02	010 D1	W	91LVW062	04/17/91	N/A	04/26/91
SMC-TB1-041791	011	W	91LVW061	04/17/91	N/A	04/25/91
SMC-TB2-041791	012	W	91LVW059	04/17/91	N/A	04/22/91
SMC-TB3-041791	013	W	91LVW059	04/17/91	N/A	04/22/91
SMC-SC19S-02	014	W	91LVW059	04/17/91	N/A	04/22/91
SMC-SC26S-02	015	W	91LVW059	04/17/91	N/A	04/22/91
SMC-SC19D-02	016	W	91LVW059	04/17/91	N/A	04/22/91
SMC-SC21S-02	017	W	91LVW059	04/17/91	N/A	04/22/91
SMC-SC21D-02	018	W	91LVW059	04/17/91	N/A	04/22/91
SMC-SC11S-02	019	W	91LVW059	04/17/91	N/A	04/22/91
SMC-SC5S-02	024	W	91LVW059	04/17/91	N/A	04/22/91
SMC-SC5D-02	025	W	91LVW059	04/17/91	N/A	04/22/91
SMC-SC5D-02	025 D1	W	91LVW062	04/17/91	N/A	04/26/91
SMC-SC18S-02	026	W	91LVW061	04/17/91	N/A	04/25/91
SMC-SC18D-02	027	W	91LVW062	04/17/91	N/A	04/26/91
SMC-FB2-041791	028	W	91LVW062	04/17/91	N/A	04/26/91
SMC-TB4-041791	029	W	91LVW062	04/17/91	N/A	04/26/91
SMC-SC4D-02	030	W	91LVW062	04/17/91	N/A	04/26/91

LAB QC:

VBLK	MB1	W	91LVW058	N/A	N/A	04/19/91
VBLK	MB1	W	91LVW062	N/A	N/A	04/26/91
VBLK	MB1	W	91LVW061	N/A	N/A	04/25/91
VBLK	MB1	W	91LVW059	N/A	N/A	04/22/91

ROY F. WESTON, INC.
Lionville Laboratory

CLIENT: TRC/SHIELD ALLOY **SAMPLES RECEIVED:** 04-18-91
RFW #: 9104L316, GC/MS VOLATILE
W.O. #: 2724-05-01

NARRATIVE

The set of samples consisted of twenty-six (26) water samples collected on 04-17-91.

The samples were analyzed according to criteria set forth in CLP SOW 02/88 (Rev. 05/89) for TCL Volatile target compounds on 04-19,22,25,26-91.

The following is a summary of the QC results accompanying these sample results and a description of any problems encountered during their analysis:

1. Non-target compounds were detected in these samples.

2. The following samples required dilution because they contained high levels of target compounds:

Sample ID	Dilution Factor
SMC-SC20S-02, MS, MSD	5
SMC-SC235-02	40
SMC-SC5D-02	5

3. Three (3) of one-hundred-five (105) surrogate recoveries were outside EPA QC limits. EPA QC surrogate recovery criteria were not met for samples SMC-SC-20S-02 and SMC-SC-23S-02. The dilutions required for these samples fulfilled the re-analysis requirement.

4. All matrix spike recoveries were within EPA QC limits.

5. The laboratory blanks contained the common contaminants methylene chloride and acetone at levels less than 3x the CRQL and the target compound 4-methyl-2-pentanone at a level less than the CRQL.

6. Internal standard area and retention time criteria were met for all samples and blanks.

Jack R. Tuschall, Ph.D.
Laboratory Manager
Lionville Analytical Laboratory

Date

WESTON

GLOSSARY OF VOA DATA 0000019

DATA QUALIFIERS

U = Compound was analyzed for but not detected. The associated numerical value is the estimated sample quantitation limit which is included and corrected for dilution and percent moisture.

J = Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicate the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero; for example, if the limit of detection is 10 ug/L and a concentration of 3 ug/L is calculated, it is reported as 3J.

B = This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates possible/probable blank contamination. This flag is also used for a TIC as well as for a positively identified TCL compound.

E = Indicates that the compound was detected beyond the calibration range and was subsequently analyzed at a dilution.

I = Interference.

X = Additional qualifiers used as required are explained in the case narrative.

NQ = Result qualitatively confirmed but not able to quantify.

ABBREVIATIONS

BS = Indicates blank spike in which reagent grade water is spiked with the CLP matrix spiking solutions and carried through all the steps in the method. Spike recoveries are reported.

BSD = Indicates blank spike duplicate.

MS = Indicates matrix spike.

MSD = Indicates matrix spike duplicate.

DL = Indicates that surrogate recoveries were not obtained because the extract had to be diluted for analysis.

NA = Not applicable.

DF = Dilution factor.

NR = Not required.

1A
VOLATILE ORGANICS ANALYSIS SHEET 0000034

CLIENT SAMPLE NO.

SMC-SC14S-02

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9104L316-001

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: W041911

Level: (low/med) LOW

Date Received: 04/18/91

% Moisture: not dec. _____

Date Analyzed: 04/19/91

Column: (pack/cap) PACK

Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
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	35	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	3	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	1	J
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	Xylene (total)	5	U

1E

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

0000035

CLIENT SAMPLE NO.

SMC-SC14S-02

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9104L316-001

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: W041911

Level: (low/med) LOW

Date Received: 04/18/91

% Moisture: not dec. _____

Date Analyzed: 04/19/91

Column: (pack/cap) PACK

Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1A
VOLATILE ORGANICS ANALYSIS SHEET 0000043

CLIENT SAMPLE NO.

SMC-SC27-02

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9104L316-002

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: W041912

Level: (low/med) LOW

Date Received: 04/18/91

% Moisture: not dec. _____

Date Analyzed: 04/19/91

Column: (pack/cap) PACK

Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
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	37	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	Xylene (total)	5	U

1E

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

0000044

CLIENT SAMPLE NO.

SMC-SC27-02

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9104L316-002

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: W041912

Level: (low/med) LOW

Date Received: 04/18/91

% Moisture: not dec. _____

Date Analyzed: 04/19/91

Column: (pack/cap) PACK

Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1A

VOLATILE ORGANICS ANALYSIS SHEET 0000050

CLIENT SAMPLE NO.

SMC-SC15S-02

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9104L316-003

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: W041913

Level: (low/med) LOW

Date Received: 04/18/91

% Moisture: not dec. _____

Date Analyzed: 04/19/91

Column: (pack/cap) PACK

Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
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	34	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	1	J
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	Xylene (total)	5	U

1E

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

0000051

CLIENT SAMPLE NO.

SMC-SC15S-02

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9104L316-003

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: W041913

Level: (low/med) LOW

Date Received: 04/18/91

% Moisture: not dec. _____

Date Analyzed: 04/19/91

Column: (pack/cap) PACK

Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1A
VOLATILE ORGANICS ANALYSIS SHEET

0000059

CLIENT SAMPLE NO.

SMC-SC16S-02

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9104L316-004

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: W041914

Level: (low/med) LOW

Date Received: 04/18/91

% Moisture: not dec. _____

Date Analyzed: 04/19/91

Column: (pack/cap) PACK

Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
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	34	B
67-64-1	Acetone	9	JB
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	Xylene (total)	5	U

1E

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

0000060

CLIENT SAMPLE NO.

SMC-SC16S-02

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9104L316-004

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: W041914

Level: (low/med) LOW

Date Received: 04/18/91

% Moisture: not dec. _____

Date Analyzed: 04/19/91

Column: (pack/cap) PACK

Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1A

VOLATILE ORGANICS ANALYSIS SHEET 0000068

CLIENT SAMPLE NO.

SMC-SC20S-02

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9104L31C-005

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: W041915

Level: (low/med) LOW

Date Received: 04/18/91

% Moisture: not dec. _____

Date Analyzed: 04/19/91

Column: (pack/cap) PACK

Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
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	34	B
67-64-1	Acetone	22	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)		E
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		E
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	42	
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	Xylene (total)	5	U

1E

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

0000069

CLIENT SAMPLE NO.

SMC-SC20S-02

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9104L316-005

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: W041915

Level: (low/med) LOW

Date Received: 04/18/91

% Moisture: not dec. _____

Date Analyzed: 04/19/91

Column: (pack/cap) PACK

Dilution Factor: 1.00

Number TICs found: 5

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	3.47	10	J
2.	UNKNOWN	6.70	9	J
3.	UNKNOWN	8.13	9	J
4.	HYDROCARBON	8.80	10	J
5.	HYDROCARBON	9.57	6	J

1A

VOLATILE ORGANICS ANALYSIS SHEET 0000089

CLIENT SAMPLE NO.

SMC-SC20S-02DL

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9104L316-005 DL

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: W042605

Level: (low/med) LOW

Date Received: 04/18/91

% Moisture: not dec. _____

Date Analyzed: 04/26/91

Column: (pack/cap) PACK

Dilution Factor: 5.00

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

CAS NO.	COMPOUND		
74-87-3	Chloromethane	NA	
74-83-9	Bromomethane	NA	
75-01-4	Vinyl Chloride	NA	
75-00-3	Chloroethane	NA	
75-09-2	Methylene Chloride	NA	
67-64-1	Acetone	NA	
75-15-0	Carbon Disulfide	NA	
75-35-4	1,1-Dichloroethene	NA	
75-34-3	1,1-Dichloroethane	NA	
540-59-0	1,2-Dichloroethene (total)	270	
67-66-3	Chloroform	NA	
107-06-2	1,2-Dichloroethane	NA	
78-93-3	2-Butanone	NA	
71-55-6	1,1,1-Trichloroethane	NA	
56-23-5	Carbon Tetrachloride	NA	
108-05-4	Vinyl Acetate	NA	
75-27-4	Bromodichloromethane	NA	
78-87-5	1,2-Dichloropropane	NA	
10061-01-5	cis-1,3-Dichloropropene	NA	
79-01-6	Trichloroethene	840	
124-48-1	Dibromochloromethane	NA	
79-00-5	1,1,2-Trichloroethane	NA	
71-43-2	Benzene	NA	
10061-02-6	Trans-1,3-Dichloropropene	NA	
75-25-2	Bromoform	NA	
108-10-1	4-Methyl-2-pentanone	NA	
591-78-6	2-Hexanone	NA	
127-18-4	Tetrachloroethene	NA	
79-34-5	1,1,2,2-Tetrachloroethane	NA	
108-88-3	Toluene	NA	
108-90-7	Chlorobenzene	NA	
100-41-4	Ethylbenzene	NA	
100-42-5	Styrene	NA	
1330-20-7	Xylene (total)	NA	

1A
VOLATILE ORGANICS ANALYSIS SHEET 0000096

CLIENT SAMPLE NO.

SMC-SC22S-02

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9104L316-006

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: W041916

Level: (low/med) LOW

Date Received: 04/18/91

% Moisture: not dec. _____

Date Analyzed: 04/19/91

Column: (pack/cap) PACK

Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
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	35	B
67-64-1	Acetone	9	JB
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	Xylene (total)	5	U

1E

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

0000097

CLIENT SAMPLE NO.

SMC-SC22S-02

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9104L316-006

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: W041916

Level: (low/med) LOW

Date Received: 04/18/91

% Moisture: not dec. _____

Date Analyzed: 04/19/91

Column: (pack/cap) PACK

Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1A
VOLATILE ORGANICS ANALYSIS SHEET 0000105

CLIENT SAMPLE NO.

SMC-SC22D-02

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9104L316-007

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: W042520

Level: (low/med) LOW

Date Received: 04/18/91

% Moisture: not dec. _____

Date Analyzed: 04/25/91

Column: (pack/cap) PACK

Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
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	27	B
67-64-1	Acetone	53	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	35	
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	1	J
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	Xylene (total)	5	U

1E

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

0000106

CLIENT SAMPLE NO.

SMC-SC22D-02

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9104L316-007

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: W042520

Level: (low/med) LOW

Date Received: 04/18/91

% Moisture: not dec. _____

Date Analyzed: 04/25/91

Column: (pack/cap) PACK

Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1A

VOLATILE ORGANICS ANALYSIS SHEET 0000117

CLIENT SAMPLE NO.

SMC-SC17S-02

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9104L316-008

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: W041918

Level: (low/med) LOW

Date Received: 04/18/91

% Moisture: not dec. _____

Date Analyzed: 04/19/91

Column: (pack/cap) PACK

Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
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	32	B
67-64-1	Acetone	5	JB
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	Xylene (total)	5	U

1E

VOLATILE ORGANICS ANALYSIS SHEET 0000118

TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SMC-SC17S-02

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9104L316-008

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: W041918

Level: (low/med) LOW

Date Received: 04/18/91

% Moisture: not dec. _____

Date Analyzed: 04/19/91

Column: (pack/cap) PACK

Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1A
VOLATILE ORGANICS ANALYSIS SHEET 0000126

CLIENT SAMPLE NO.

SMC-SC17D-02

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9104L316-009

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: W042521

Level: (low/med) LOW

Date Received: 04/18/91

% Moisture: not dec. _____

Date Analyzed: 04/25/91

Column: (pack/cap) PACK

Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
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	27	B
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	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	Xylene (total)	5	U

1E

VOLATILE ORGANICS ANALYSIS SHEET 0000127

TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SMC-SC17D-02

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9104'.316-009

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: W042521

Level: (low/med) LOW

Date Received: 04/18/91

% Moisture: not dec. _____

Date Analyzed: 04/25/91

Column: (pack/cap) PACK

Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1A
VOLATILE ORGANICS ANALYSIS SHEET 0000135

CLIENT SAMPLE NO.

SMC-SC23S-02

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9104L316-010

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: W041920

Level: (low/med) LOW

Date Received: 04/18/91

% Moisture: not dec. _____

Date Analyzed: 04/19/91

Column: (pack/cap) PACK

Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
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	34	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	78	
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	28	B
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		E
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene		E
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)		E

1E

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

D000136

CLIENT SAMPLE NO.

SMC-SC23S-02

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9104L316-010

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: W041920

Level: (low/med) LOW

Date Received: 04/18/91

% Moisture: not dec. _____

Date Analyzed: 04/19/91

Column: (pack/cap) PACK

Dilution Factor: 1.00

Number TICs found: 10

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	6.67	100	J
2.	ALKANE	8.13	40	J
3.	C5 HYDROCARBON	8.57	60	J
4.	C6 HYDROCARBON	9.53	100	J
5.	UNKNOWN	11.57	30	J
6.	UNKNOWN	13.50	10	J
7.	ALKANE	16.60	10	J
8.	ALKANE	17.73	60	J
9.	UNKNOWN	27.37	90	J
10.	C3 BENZENE	30.57	300	J

1A

VOLATILE ORGANICS ANALYSIS SHEET 0000165

CLIENT SAMPLE NO.

SMC-SC23S-02DL

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9104L316-010 DL

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: W042613

Level: (low/med) LOW

Date Received: 04/18/91

% Moisture: not dec. _____

Date Analyzed: 04/26/91

Column: (pack/cap) PACK

Dilution Factor: 40.0

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

CAS NO.	COMPOUND		
74-87-3	Chloromethane	NA	
74-83-9	Bromomethane	NA	
75-01-4	Vinyl Chloride	NA	
75-00-3	Chloroethane	NA	
75-09-2	Methylene Chloride	NA	
67-64-1	Acetone	NA	
75-15-0	Carbon Disulfide	NA	
75-35-4	1,1-Dichloroethene	NA	
75-34-3	1,1-Dichloroethane	NA	
540-59-0	1,2-Dichloroethene (total)	NA	
67-66-3	Chloroform	NA	
107-06-2	1,2-Dichloroethane	NA	
78-93-3	2-Butanone	NA	
71-55-6	1,1,1-Trichloroethane	NA	
56-23-5	Carbon Tetrachloride	NA	
108-05-4	Vinyl Acetate	NA	
75-27-4	Bromodichloromethane	NA	
78-87-5	1,2-Dichloropropane	NA	
10061-01-5	cis-1,3-Dichloropropene	NA	
79-01-6	Trichloroethene	NA	
124-48-1	Dibromochloromethane	NA	
79-00-5	1,1,2-Trichloroethane	NA	
71-43-2	Benzene	NA	
10061-02-6	Trans-1,3-Dichloropropene	NA	
75-25-2	Bromoform	NA	
108-10-1	4-Methyl-2-pentanone	NA	
591-78-6	2-Hexanone	NA	
127-18-4	Tetrachloroethene	NA	
79-34-5	1,1,2,2-Tetrachloroethane	NA	
108-88-3	Toluene	4900	
108-90-7	Chlorobenzene	NA	
100-41-4	Ethylbenzene	630	
100-42-5	Styrene	NA	
1330-20-7	Xylene (total)	2100	

1A
VOLATILE ORGANICS ANALYSIS SHEET 0000177

CLIENT SAMPLE NO.

SMC-TB1-041791

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9104L316-011

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: W042522

Level: (low/med) LOW

Date Received: 04/18/91

% Moisture: not dec. _____

Date Analyzed: 04/25/91

Column: (pack/cap) PACK

Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
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	29	B
67-64-1	Acetone	17	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	Xylene (total)	5	U

1E

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

0000178

CLIENT SAMPLE NO.

SMC-TB1-041791

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9104L316-011

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: W042522

Level: (low/med) LOW

Date Received: 04/18/91

% Moisture: not dec. _____

Date Analyzed: 04/25/91

Column: (pack/cap) PACK

Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1A

VOLATILE ORGANICS ANALYSIS SHEET 0000186

CLIENT SAMPLE NO.

SMC-TB2-041791

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9104L316-012

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: W042204

Level: (low/med) LOW

Date Received: 04/18/91

% Moisture: not dec. _____

Date Analyzed: 04/22/91

Column: (pack/cap) PACK

Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
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	7	B
67-64-1	Acetone	4	JB
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	Xylene (total)	5	U

1E

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

0000187

CLIENT SAMPLE NO.

SMC-TB2-041791

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9104L316-012

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: W042204

Level: (low/med) LOW

Date Received: 04/18/91

% Moisture: not dec. _____

Date Analyzed: 04/22/91

Column: (pack/cap) PACK

Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1A

VOLATILE ORGANICS ANALYSIS SHEET 0000195

CLIENT SAMPLE NO.

SMC-TB3-041791

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9104L316-013

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: W042205

Level: (low/med) LOW

Date Received: 04/18/91

% Moisture: not dec. _____

Date Analyzed: 04/22/91

Column: (pack/cap) PACK

Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
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	9	B
67-64-1	Acetone	4	JB
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	Xylene (total)	5	U

1E

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

0000196

CLIENT SAMPLE NO.

SMC-TB3-041791

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9104L316-013

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: W042205

Level: (low/med) LOW

Date Received: 04/18/91

% Moisture: not dec. _____

Date Analyzed: 04/22/91

Column: (pack/cap) PACK

Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1A

VOLATILE ORGANICS ANALYSIS SHEET 0000203

CLIENT SAMPLE NO.

SMC-SC19S-02

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9104L316-014

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: W042206

Level: (low/med) LOW

Date Received: 04/18/91

% Moisture: not dec. _____

Date Analyzed: 04/22/91

Column: (pack/cap) PACK

Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
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	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	4	J
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	Xylene (total)	5	U

1E

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

0000204

CLIENT SAMPLE NO.

SMC-SC19S-02

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9104L316-014

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: W042206

Level: (low/med) LOW

Date Received: 04/18/91

% Moisture: not dec. _____

Date Analyzed: 04/22/91

Column: (pack/cap) PACK

Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1A
VOLATILE ORGANICS ANALYSIS SHEET 0 0 0 0 2 1 1

CLIENT SAMPLE NO.

SMC-SC26S-02

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER Lab Sample ID: 9104L316-015

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: W042207

Level: (low/med) LOW Date Received: 04/18/91

% Moisture: not dec. _____ Date Analyzed: 04/22/91

Column: (pack/cap) PACK Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
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	2	J
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	Xylene (total)	5	U

1E

VOLATILE ORGANICS ANALYSIS SHEET 0000212

TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SMC-SC26S-02

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9104L316-015

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: W042207

Level: (low/med) LOW

Date Received: 04/18/91

% Moisture: not dec. _____

Date Analyzed: 04/22/91

Column: (pack/cap) PACK

Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1A
VOLATILE ORGANICS ANALYSIS SHEET 0000219

CLIENT SAMPLE NO.

SMC-SC19D-02

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9104L316-016

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: W042208

Level: (low/med) LOW

Date Received: 04/18/91

% Moisture: not dec. _____

Date Analyzed: 04/22/91

Column: (pack/cap) PACK

Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
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	7	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	17	
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	3	J
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	3	J
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	Xylene (total)	5	U

1E

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

0000220

CLIENT SAMPLE NO.

SMC-SC19D-02

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9104L316-016

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: W042208

Level: (low/med) LOW

Date Received: 04/18/91

% Moisture: not dec. _____

Date Analyzed: 04/22/91

Column: (pack/cap) PACK

Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1A

VOLATILE ORGANICS ANALYSIS SHEET 0000232

CLIENT SAMPLE NO.

SMC-SC21S-02

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9104L316-017

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: W042209

Level: (low/med) LOW

Date Received: 04/18/91

% Moisture: not dec. _____

Date Analyzed: 04/22/91

Column: (pack/cap) PACK

Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
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	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	2	J
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	Xylene (total)	5	U

1E

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

0000233

CLIENT SAMPLE NO.

SMC-SC21S-02

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9104L316-017

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: W042209

Level: (low/med) LOW

Date Received: 04/18/91

% Moisture: not dec. _____

Date Analyzed: 04/22/91

Column: (pack/cap) PACK

Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1A
VOLATILE ORGANICS ANALYSIS SHEET 000241

CLIENT SAMPLE NO.

SMC-SC21D-02

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9104L316-018

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: W042210

Level: (low/med) LOW

Date Received: 04/18/91

% Moisture: not dec. _____

Date Analyzed: 04/22/91

Column: (pack/cap) PACK

Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
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	12	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	4	J
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	2	J
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	3	J

1E

VOLATILE ORGANICS ANALYSIS SHEET 0 0 0 0 2 4 2

TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SMC-SC21D-02

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9104L316-018

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: W042210

Level: (low/med) LOW

Date Received: 04/18/91

% Moisture: not dec. _____

Date Analyzed: 04/22/91

Column: (pack/cap) PACK

Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1A
VOLATILE ORGANICS ANALYSIS SHEET 0000258

CLIENT SAMPLE NO.

SMC-SC11S-02

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9104L316-019

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: W042211

Level: (low/med) LOW

Date Received: 04/18/91

% Moisture: not dec. _____

Date Analyzed: 04/22/91

Column: (pack/cap) PACK

Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
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	27	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	Xylene (total)	5	U

1E

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

0000259

CLIENT SAMPLE NO.

SMC-SC11S-02

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9104L316-019

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: W042211

Level: (low/med) LOW

Date Received: 04/18/91

% Moisture: not dec. _____

Date Analyzed: 04/22/91

Column: (pack/cap) PACK

Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1A

VOLATILE ORGANICS ANALYSIS SHEET 0000265

CLIENT SAMPLE NO.

SMC-SC5S-02

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9104L316-024

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: W042212

Level: (low/med) LOW

Date Received: 04/18/91

% Moisture: not dec. _____

Date Analyzed: 04/22/91

Column: (pack/cap) PACK

Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
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	29	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	Xylene (total)	5	U

1E

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

0000266

CLIENT SAMPLE NO.

SMC-SC5S-02

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9104L316-024

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: W042212

Level: (low/med) LOW

Date Received: 04/18/91

% Moisture: not dec. _____

Date Analyzed: 04/22/91

Column: (pack/cap) PACK

Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1A
VOLATILE ORGANICS ANALYSIS SHEET 0000272

CLIENT SAMPLE NO.

SMC-SC5D-02

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9104L316-025

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: W042213

Level: (low/med) LOW

Date Received: 04/18/91

% Moisture: not dec. _____

Date Analyzed: 04/22/91

Column: (pack/cap) PACK

Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
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	30	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)	25	
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		E
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	4	J
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	Xylene (total)	5	U

1E

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

0000273

CLIENT SAMPLE NO.

SMC-SC5D-02

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9104L316-025

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: W042213

Level: (low/med) LOW

Date Received: 04/18/91

% Moisture: not dec. _____

Date Analyzed: 04/22/91

Column: (pack/cap) PACK

Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1A
VOLATILE ORGANICS ANALYSIS SHEET 0000285

CLIENT SAMPLE NO.

SMC-SC5D-02DL

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER Lab Sample ID: 9104L316-025 DL

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: W042608

Level: (low/med) LOW Date Received: 04/18/91

% Moisture: not dec. _____ Date Analyzed: 04/26/91

Column: (pack/cap) PACK Dilution Factor: 5.00

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

CAS NO.	COMPOUND		
74-87-3	Chloromethane	NA	
74-83-9	Bromomethane	NA	
75-01-4	Vinyl Chloride	NA	
75-00-3	Chloroethane	NA	
75-09-2	Methylene Chloride	NA	
67-64-1	Acetone	NA	
75-15-0	Carbon Disulfide	NA	
75-35-4	1,1-Dichloroethene	NA	
75-34-3	1,1-Dichloroethane	NA	
540-59-0	1,2-Dichloroethene (total)	NA	
67-66-3	Chloroform	NA	
107-06-2	1,2-Dichloroethane	NA	
78-93-3	2-Butanone	NA	
71-55-6	1,1,1-Trichloroethane	NA	
56-23-5	Carbon Tetrachloride	NA	
108-05-4	Vinyl Acetate	NA	
75-27-4	Bromodichloromethane	NA	
78-87-5	1,2-Dichloropropane	NA	
10061-01-5	cis-1,3-Dichloropropene	NA	
79-01-6	Trichloroethene	430	
124-48-1	Dibromochloromethane	NA	
79-00-5	1,1,2-Trichloroethane	NA	
71-43-2	Benzene	NA	
10061-02-6	Trans-1,3-Dichloropropene	NA	
75-25-2	Bromoform	NA	
108-10-1	4-Methyl-2-pentanone	NA	
591-78-6	2-Hexanone	NA	
127-18-4	Tetrachloroethene	NA	
79-34-5	1,1,2,2-Tetrachloroethane	NA	
108-88-3	Toluene	NA	
108-90-7	Chlorobenzene	NA	
100-41-4	Ethylbenzene	NA	
100-42-5	Styrene	NA	
1330-20-7	Xylene (total)	NA	

1A

VOLATILE ORGANICS ANALYSIS SHEET 0000290

CLIENT SAMPLE NO.

SMC-SC18S-02

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9104L316-026

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: W042523

Level: (low/med) LOW

Date Received: 04/18/91

% Moisture: not dec. _____

Date Analyzed: 04/25/91

Column: (pack/cap) PACK

Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
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	27	B
67-64-1	Acetone	15	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	Xylene (total)	5	U

1E

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

0000291

CLIENT SAMPLE NO.

SMC-SC18S-02

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9104L316-026

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: W042523

Level: (low/med) LOW

Date Received: 04/18/91

% Moisture: not dec. _____

Date Analyzed: 04/25/91

Column: (pack/cap) PACK

Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1A
VOLATILE ORGANICS ANALYSIS SHEET 0 0 0 0 2 9 9

CLIENT SAMPLE NO.

SMC-SC18D-02

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER Lab Sample ID: 9104L316-027

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: W042609

Level: (low/med) LOW Date Received: 04/18/91

% Moisture: not dec. _____ Date Analyzed: 04/26/91

Column: (pack/cap) PACK Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
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	13	B
67-64-1	Acetone	27	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	71	
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	3	J
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	Xylene (total)	5	U

1E

VOLATILE ORGANICS ANALYSIS SHEET 0000300
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SMC-SC18D-02

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9104L316-027

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: W042609

Level: (low/med) LOW

Date Received: 04/18/91

% Moisture: not dec. _____

Date Analyzed: 04/26/91

Column: (pack/cap) PACK

Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1A
VOLATILE ORGANICS ANALYSIS SHEET 0000312

CLIENT SAMPLE NO.

SMC-FB2-041791

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9104L316-028

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: W042610

Level: (low/med) LOW

Date Received: 04/18/91

% Moisture: not dec. _____

Date Analyzed: 04/26/91

Column: (pack/cap) PACK

Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
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	B
67-64-1	Acetone	15	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	Xylene (total)	5	U

1E

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

0000313

CLIENT SAMPLE NO.

SMC-FB2-041791

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9104L316-028

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: W042610

Level: (low/med) LOW

Date Received: 04/18/91

% Moisture: not dec. _____

Date Analyzed: 04/26/91

Column: (pack/cap) PACK

Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1A
VOLATILE ORGANICS ANALYSIS SHEET 0000321

CLIENT SAMPLE NO.

SMC-TB4-041791

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9104L316-029

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: W042611

Level: (low/med) LOW

Date Received: 04/18/91

% Moisture: not dec. _____

Date Analyzed: 04/26/91

Column: (pack/cap) PACK

Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
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	30	B
67-64-1	Acetone	13	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	Xylene (total)	5	U

1E

VOLATILE ORGANICS ANALYSIS SHEET

TENTATIVELY IDENTIFIED COMPOUNDS 0000322

CLIENT SAMPLE NO.

SMC-TB4-041791

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9104L316-029

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: W042611

Level: (low/med) LOW

Date Received: 04/18/91

% Moisture: not dec. _____

Date Analyzed: 04/26/91

Column: (pack/cap) PACK

Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1A
VOLATILE ORGANICS ANALYSIS SHEET 0000329

CLIENT SAMPLE NO.

SMC-SC4D-02

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9104L316-030

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: W042612

Level: (low/med) LOW

Date Received: 04/18/91

% Moisture: not dec. _____

Date Analyzed: 04/26/91

Column: (pack/cap) PACK

Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
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	28	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	110	
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	Xylene (total)	5	U

1E

VOLATILE ORGANICS ANALYSIS SHEET 0000330

TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SMC-SC4D-02

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9104L316-030

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: W042612

Level: (low/med) LOW

Date Received: 04/18/91

% Moisture: not dec. _____

Date Analyzed: 04/26/91

Column: (pack/cap) PACK

Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

Roy F. Weston, Inc. - Lionville Laboratory
BNA ANALYTICAL DATA PACKAGE FOR
TRC-SHIELDALLOY

DATE RECEIVED: 04/18/91 RFW LOT # :9104L316

CLIENT ID	RFW #	MTX	PREP #	COLLECTION	EXTR/PREP	ANALYSIS
SMC-SC14S-02	001	W	91LE0515	04/17/91	04/19/91	05/21/91
SMC-SC27-02	002	W	91LE0515	04/17/91	04/19/91	05/21/91
SMC-SC20S-02	005	W	91LE0515	04/17/91	04/19/91	05/14/91
SMC-SC20S-02	005 MS	W	91LE0515	04/17/91	04/19/91	05/14/91
SMC-SC20S-02	005 MSD	W	91LE0515	04/17/91	04/19/91	05/14/91
SMC-FB2-041791	028	W	91LE0519	04/17/91	04/22/91	05/21/91

LAB QC:

SBLK	MB1	W	91LE0515	N/A	04/19/91	05/13/91
SBLK	MB1 BS	W	91LE0515	N/A	04/19/91	05/17/91
SBLK	MB1 BSD	W	91LE0515	N/A	04/19/91	05/17/91
SBLK	MB1	W	91LE0519	N/A	04/22/91	04/24/91
SBLK	MB1 BS	W	91LE0519	N/A	04/22/91	05/13/91
SBLK	MB1 BSD	W	91LE0519	N/A	04/22/91	05/13/91

309A

ROY F. WESTON, INC.
Lionville Laboratory

CLIENT: TRC SHIELD ALLOY **SAMPLES RECEIVED:** 04-18-91
RFW #: 9104L316, SEMIVOLATILE
W.O. #: 2724-05-01

NARRATIVE

The set of samples consisted of four (4) water samples collected on 04-17-91.

The samples were extracted on 04-19,22-91 and analyzed according to criteria set forth in CLP SOW 02/88 (Rev. 05/89) for TCL Semivolatile target compounds on 04-24-91 and 05-13,14,17,21-91.

The following is a summary of the QC results accompanying these sample results and a description of any problems encountered during their analysis:

1. Non-target compounds were detected in these samples.

2. Three (3) of seventy-two (72) surrogate recoveries were outside EPA QC limits; however, EPA CLP surrogate recovery criteria were met (i.e., no more than one outlier per fraction (acid and base neutral) and no recoveries less than 10%).

3. Five (5) of forty-four (44) blank spike recoveries were outside EPA QC limits.

4. Three (3) of twenty-two (22) matrix spike recoveries were outside EPA QC limits.

5. The laboratory blank 91LE0519-MB1 contained the common contaminants di-n-butylhexyl-phthalate and bis(2-ethylhexyl)phthalate and the target compound N-nitrosodiphenylamine at levels less than the CRQL.

6. Internal standard area and retention time criteria were met for all samples and blanks.

Jack R. Tuschall, Ph.D.
Laboratory Manager
Lionville Analytical Laboratory

Date

WESTON

GLOSSARY OF BNA DATA

DATA QUALIFIERS

U = Compound was analyzed for but not detected. The associated numerical value is the estimated sample quantitation limit which is included and corrected for dilution and percent moisture.

J = Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicate the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero; for example, if the limit of detection is 10 ug/L and a concentration of 3 ug/L is calculated, it is reported as 3J.

B = This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates possible/probable blank contamination. This flag is also used for a TIC as well as for a positively identified TCL compound.

E = Indicates that the compound was detected beyond the calibration range and was subsequently analyzed at a dilution.

I = Interference.

A = Aldol Condensation Product.

X = Additional qualifiers used as required are explained in the case narrative.

NQ = Result qualitatively confirmed but not able to quantify.

ABBREVIATIONS

BS = Indicates blank spike in which reagent grade water is spiked with the CLP matrix spiking solutions and carried through all the steps in the method. Spike recoveries are reported.

BSD = Indicates blank spike duplicate.

MS = Indicates matrix spike.

MSD = Indicates matrix spike duplicate.

DL = Indicates that surrogate recoveries were not obtained because the extract had to be diluted for analysis.

NA = Not applicable.

DF = Dilution factor.

NR = Not required.

1B
SEMIVOLATILE ORGANICS ANALYSIS SHEET

0000329

CLIENT SAMPLE NO.

SMC-SC14S-02

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9104L316-001

Sample wt/vol: 920 (g/mL) ML

Lab File ID: J052117

Level: (low/med) LOW

Date Received: 04/18/91

% Moisture: not dec. _____ dec.

Date Extracted: 04/19/91

Extraction: (SepF/Cont/Sonc) SEPF

Date Analyzed: 05/21/91

GPC Cleanup: (Y/N) N pH: 7.0

Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	
108-95-2	Phenol	11	U
111-44-4	bis(2-Chloroethyl)ether	11	U
95-57-8	2-Chlorophenol	11	U
541-73-1	1,3-Dichlorobenzene	11	U
106-46-7	1,4-Dichlorobenzene	11	U
100-51-6	Benzyl alcohol	11	U
95-50-1	1,2-Dichlorobenzene	11	U
95-48-7	2-Methylphenol	11	U
108-60-1	bis(2-Chloroisopropyl)ether	11	U
106-44-5	4-Methylphenol	11	U
621-64-7	N-Nitroso-Di-n-propylamine	11	U
67-72-1	Hexachloroethane	11	U
98-95-3	Nitrobenzene	11	U
78-59-1	Isophorone	11	U
88-75-5	2-Nitrophenol	11	U
105-67-9	2,4-Dimethylphenol	11	U
65-85-0	Benzoic acid	55	U
111-91-1	bis(2-Chloroethoxy)methane	11	U
120-83-2	2,4-Dichlorophenol	11	U
120-82-1	1,2,4-Trichlorobenzene	11	U
91-20-3	Naphthalene	11	U
106-47-8	4-Chloroaniline	11	U
87-68-3	Hexachlorobutadiene	11	U
59-50-7	4-Chloro-3-methylphenol	11	U
91-57-6	2-Methylnaphthalene	11	U
77-47-4	Hexachlorocyclopentadiene	11	U
88-06-2	2,4,6-Trichlorophenol	11	U
95-95-4	2,4,5-Trichlorophenol	55	U
91-58-7	2-Chloronaphthalene	11	U
88-74-4	2-Nitroaniline	55	U
131-11-3	Dimethylphthalate	11	U
208-96-8	Acenaphthylene	11	U
606-20-2	2,6-Dinitrotoluene	11	U

1C

SEMIVOLATILE ORGANICS ANALYSIS SHEET

0000330

CLIENT SAMPLE NO.

SMC-SC14S-02

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER Lab Sample ID: 9104L316-001

Sample wt/vol: 920 (g/mL) ML Lab File ID: J052117

Level: (low/med) LOW Date Received: 04/18/91

% Moisture: not dec. _____ dec. Date Extracted: 04/19/91

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/21/91

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	
99-09-2	3-Nitroaniline	55	U
83-32-9	Acenaphthene	11	U
51-28-5	2,4-Dinitrophenol	55	U
100-02-7	4-Nitrophenol	55	U
132-64-9	Dibenzofuran	11	U
121-14-2	2,4-Dinitrotoluene	11	U
84-66-2	Diethylphthalate	11	U
7005-72-3	4-Chlorophenyl-phenylether	11	U
86-73-7	Fluorene	11	U
100-01-6	4-Nitroaniline	55	U
534-52-1	4,6-Dinitro-2-methylphenol	55	U
86-30-6	N-Nitrosodiphenylamine (1)	11	U
101-55-3	4-Bromophenyl-phenylether	11	U
118-74-1	Hexachlorobenzene	11	U
87-86-5	Pentachlorophenol	55	U
85-01-8	Phenanthrene	11	U
120-12-7	Anthracene	11	U
84-74-2	Di-n-Butylphthalate	11	U
206-44-0	Fluoranthene	11	U
129-00-0	Pyrene	11	U
85-68-7	Butylbenzylphthalate	11	U
91-94-1	3,3'-Dichlorobenzidine	22	U
56-55-3	Benzo(a)anthracene	11	U
218-01-9	Chrysene	11	U
117-81-7	bis(2-Ethylhexyl)phthalate	11	U
117-84-0	Di-n-Octyl phthalate	11	U
205-99-2	Benzo(b)fluoranthene	11	U
207-08-9	Benzo(k)fluoranthene	11	U
50-32-8	Benzo(a)pyrene	11	U
193-39-5	Indeno(1,2,3-cd)pyrene	11	U
53-70-3	Dibenzo(a,h)anthracene	11	U
191-24-2	Benzo(g,h,i)perylene	11	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

0000331

CLIENT SAMPLE NO.

SMC-SC14S-02

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9104L316-001

Sample wt/vol: 920 (g/mL) ML

Lab File ID: J052117

Level: (low/med) LOW

Date Received: 04/18/91

% Moisture: not dec. _____ dec.

Date Extracted: 04/19/91

Extraction: (SepF/Cont/Sonc) SEPF

Date Analyzed: 05/21/91

GPC Cleanup: (Y/N) N pH: 7.0

Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1B
SEMIVOLATILE ORGANICS ANALYSIS SHEET 000337

CLIENT SAMPLE NO.

SMC-SC27-02

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER Lab Sample ID: 9104L316-002

Sample wt/vol: 910 (g/mL) ML Lab File ID: J052116

Level: (low/med) LOW Date Received: 04/18/91

% Moisture: not dec. _____ dec. Date Extracted: 04/19/91

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/21/91

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
108-95-2	Phenol	11	U
111-44-4	bis(2-Chloroethyl)ether	11	U
95-57-8	2-Chlorophenol	11	U
541-73-1	1,3-Dichlorobenzene	11	U
106-46-7	1,4-Dichlorobenzene	11	U
100-51-6	Benzyl alcohol	11	U
95-50-1	1,2-Dichlorobenzene	11	U
95-48-7	2-Methylphenol	11	U
108-60-1	bis(2-Chloroisopropyl)ether	11	U
106-44-5	4-Methylphenol	11	U
621-64-7	N-Nitroso-Di-n-propylamine	11	U
67-72-1	Hexachloroethane	11	U
98-95-3	Nitrobenzene	11	U
78-59-1	Isophorone	11	U
88-75-5	2-Nitrophenol	11	U
105-67-9	2,4-Dimethylphenol	11	U
65-85-0	Benzoic acid	55	U
111-91-1	bis(2-Chloroethoxy)methane	11	U
120-83-2	2,4-Dichlorophenol	11	U
120-82-1	1,2,4-Trichlorobenzene	11	U
91-20-3	Naphthalene	11	U
106-47-8	4-Chloroaniline	11	U
87-68-3	Hexachlorobutadiene	11	U
59-50-7	4-Chloro-3-methylphenol	11	U
91-57-6	2-Methylnaphthalene	11	U
77-47-4	Hexachlorocyclopentadiene	11	U
88-06-2	2,4,6-Trichlorophenol	11	U
95-95-4	2,4,5-Trichlorophenol	55	U
91-58-7	2-Chloronaphthalene	11	U
88-74-4	2-Nitroaniline	55	U
131-11-3	Dimethylphthalate	11	U
208-96-8	Acenaphthylene	11	U
606-20-2	2,6-Dinitrotoluene	11	U

1C

SEMIVOLATILE ORGANICS ANALYSIS SHEET 000338

CLIENT SAMPLE NO.

SMC-SC27-02

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER Lab Sample ID: 9104L316-002

Sample wt/vol: 910 (g/mL) ML Lab File ID: J052116

Level: (low/med) LOW Date Received: 04/18/91

% Moisture: not dec. _____ dec. Date Extracted: 04/19/91

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/21/91

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
99-09-2	3-Nitroaniline	55	U
83-32-9	Acenaphthene	11	U
51-28-5	2,4-Dinitrophenol	55	U
100-02-7	4-Nitrophenol	55	U
132-64-9	Dibenzofuran	11	U
121-14-2	2,4-Dinitrotoluene	11	U
84-66-2	Diethylphthalate	11	U
7005-72-3	4-Chlorophenyl-phenylether	11	U
86-73-7	Fluorene	11	U
100-01-6	4-Nitroaniline	55	U
534-52-1	4,6-Dinitro-2-methylphenol	55	U
86-30-6	N-Nitrosodiphenylamine (1)	11	U
101-55-3	4-Bromophenyl-phenylether	11	U
118-74-1	Hexachlorobenzene	11	U
87-86-5	Pentachlorophenol	55	U
85-01-8	Phenanthrene	11	U
120-12-7	Anthracene	11	U
84-74-2	Di-n-Butylphthalate	11	U
206-44-0	Fluoranthene	11	U
129-00-0	Pyrene	11	U
85-68-7	Butylbenzylphthalate	11	U
91-94-1	3,3'-Dichlorobenzidine	22	U
56-55-3	Benzo(a)anthracene	11	U
218-01-9	Chrysene	11	U
117-81-7	bis(2-Ethylhexyl)phthalate	1	J
117-84-0	Di-n-Octyl phthalate	11	U
205-99-2	Benzo(b)fluoranthene	11	U
207-08-9	Benzo(k)fluoranthene	11	U
50-32-8	Benzo(a)pyrene	11	U
193-39-5	Indeno(1,2,3-cd)pyrene	11	U
53-70-3	Dibenzo(a,h)anthracene	11	U
191-24-2	Benzo(g,h,i)perylene	11	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

000339

CLIENT SAMPLE NO.

SMC-SC27-02

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9104L316-002

Sample wt/vol: 910 (g/mL) ML

Lab File ID: J052116

Level: (low/med) LOW

Date Received: 04/18/91

% Moisture: not dec. _____ dec.

Date Extracted: 04/19/91

Extraction: (SepF/Cont/Sonc) SEPF

Date Analyzed: 05/21/91

GPC Cleanup: (Y/N) N pH: 7.0

Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1B

SEMIVOLATILE ORGANICS ANALYSIS SHEET 0000348

CLIENT SAMPLE NO.

SMC-SC20S-02

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER Lab Sample ID: 9104L316-005

Sample wt/vol: 980 (g/mL) ML Lab File ID: J051411

Level: (low/med) LOW Date Received: 04/18/91

% Moisture: not dec. _____ dec. Date Extracted: 04/19/91

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/14/91

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	bis(2-Chloroisopropyl)ether	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic acid	50	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U

1C
SEMIVOLATILE ORGANICS ANALYSIS SHEET 0000349

CLIENT SAMPLE NO.

SMC-SC20S-02

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER Lab Sample ID: 9104L316-005

Sample wt/vol: 980 (g/mL) ML Lab File ID: J051411

Level: (low/med) LOW Date Received: 04/18/91

% Moisture: not dec. _____ dec. Date Extracted: 04/19/91

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/14/91

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	1	J
117-84-0	Di-n-Octyl phthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

0000350

CLIENT SAMPLE NO.

SMC-SC20S-02

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9104L316-005

Sample wt/vol: 980 (g/mL) ML

Lab File ID: J051411

Level: (low/med) LOW

Date Received: 04/18/91

% Moisture: not dec. _____ dec.

Date Extracted: 04/19/91

Extraction: (SepF/Cont/Sonc) SEPF

Date Analyzed: 05/14/91

GPC Cleanup: (Y/N) N pH: 7.0

Dilution Factor: 1.00

Number TICs found: 1

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	34.58	8	JB

1B
SEMIVOLATILE ORGANICS ANALYSIS SHEET 000361

CLIENT SAMPLE NO.

SMC-FB2-041791

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER Lab Sample ID: 9104L316-028

Sample wt/vol: 835 (g/mL) ML Lab File ID: J052118

Level: (low/med) LOW Date Received: 04/18/91

% Moisture: not dec. _____ dec. Date Extracted: 04/22/91

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/21/91

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
108-95-2	Phenol	12	U
111-44-4	bis(2-Chloroethyl)ether	12	U
95-57-8	2-Chlorophenol	12	U
541-73-1	1,3-Dichlorobenzene	12	U
106-46-7	1,4-Dichlorobenzene	12	U
100-51-6	Benzyl alcohol	12	U
95-50-1	1,2-Dichlorobenzene	12	U
95-48-7	2-Methylphenol	12	U
108-60-1	bis(2-Chloroisopropyl)ether	12	U
106-44-5	4-Methylphenol	12	U
621-64-7	N-Nitroso-Di-n-propylamine	12	U
67-72-1	Hexachloroethane	12	U
98-95-3	Nitrobenzene	12	U
78-59-1	Isophorone	12	U
88-75-5	2-Nitrophenol	12	U
105-67-9	2,4-Dimethylphenol	12	U
65-85-0	Benzoic acid	60	U
111-91-1	bis(2-Chloroethoxy)methane	12	U
120-83-2	2,4-Dichlorophenol	12	U
120-82-1	1,2,4-Trichlorobenzene	12	U
91-20-3	Naphthalene	12	U
106-47-8	4-Chloroaniline	12	U
87-68-3	Hexachlorobutadiene	12	U
59-50-7	4-Chloro-3-methylphenol	12	U
91-57-6	2-Methylnaphthalene	12	U
77-47-4	Hexachlorocyclopentadiene	12	U
88-06-2	2,4,6-Trichlorophenol	12	U
95-95-4	2,4,5-Trichlorophenol	60	U
91-58-7	2-Chloronaphthalene	12	U
88-74-4	2-Nitroaniline	60	U
131-11-3	Dimethylphthalate	12	U
208-96-8	Acenaphthylene	12	U
606-20-2	2,6-Dinitrotoluene	12	U

1C

SEMIVOLATILE ORGANICS ANALYSIS SHEET 000362

CLIENT SAMPLE NO.

SMC-FB2-041791

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER Lab Sample ID: 9104L316-028

Sample wt/vol: 835 (g/mL) ML Lab File ID: J052118

Level: (low/med) LOW Date Received: 04/18/91

% Moisture: not dec. _____ dec. Date Extracted: 04/22/91

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/21/91

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
99-09-2	3-Nitroaniline	60	U
83-32-9	Acenaphthene	12	U
51-28-5	2,4-Dinitrophenol	60	U
100-02-7	4-Nitrophenol	60	U
132-64-9	Dibenzofuran	12	U
121-14-2	2,4-Dinitrotoluene	12	U
84-66-2	Diethylphthalate	12	U
7005-72-3	4-Chlorophenyl-phenylether	12	U
86-73-7	Fluorene	12	U
100-01-6	4-Nitroaniline	60	U
534-52-1	4,6-Dinitro-2-methylphenol	60	U
86-30-6	N-Nitrosodiphenylamine (1)	12	U
101-55-3	4-Bromophenyl-phenylether	12	U
118-74-1	Hexachlorobenzene	12	U
87-86-5	Pentachlorophenol	60	U
85-01-8	Phenanthrene	12	U
120-12-7	Anthracene	12	U
84-74-2	Di-n-Butylphthalate	12	U
206-44-0	Fluoranthene	12	U
129-00-0	Pyrene	12	U
85-68-7	Butylbenzylphthalate	12	U
91-94-1	3,3'-Dichlorobenzidine	24	U
56-55-3	Benzo(a)anthracene	12	U
218-01-9	Chrysene	12	U
117-81-7	bis(2-Ethylhexyl)phthalate	2	JB
117-84-0	Di-n-Octyl phthalate	12	U
205-99-2	Benzo(b)fluoranthene	12	U
207-08-9	Benzo(k)fluoranthene	12	U
50-32-8	Benzo(a)pyrene	12	U
193-39-5	Indeno(1,2,3-cd)pyrene	12	U
53-70-3	Dibenzo(a,h)anthracene	12	U
191-24-2	Benzo(g,h,i)perylene	12	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

0000363

CLIENT SAMPLE NO.

SMC-FB2-041791

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9104L316-028

Sample wt/vol: 835 (g/mL) ML

Lab File ID: J052118

Level: (low/med) LOW

Date Received: 04/18/91

% Moisture: not dec. _____ dec.

Date Extracted: 04/22/91

Extraction: (SepF/Cont/Sonc) SEPF

Date Analyzed: 05/21/91

GPC Cleanup: (Y/N) N pH: 7.0

Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

ROY F. WESTON, INC.
Lionville Laboratory

CLIENT: TRC/SHIELDALLOY
RFW #: 9104L295
W.O. #: 2724-05-01

SAMPLES RECEIVED: 04-16-91

INORGANIC NARRATIVE

The following is a summary of the quality control results and a description of any problems encountered during the analysis of this batch of samples:

1. All sample holding times as required by 40CFR136 were met for water samples.

2. All preparation blanks were analyzed below the required detection limit.

3. All laboratory control standards (blank spikes) were within the control limits of 80-120%. All %RPD were within the 20% guidance limit.

4. All calibration verification checks are within the required control limits of 90-110%. Calibration verification is performed using independent standards.

5. Matrix spike recoveries are summarized on the Inorganics Accuracy Report contained within this document. All recoveries were within the 75-125% guidance limit.

6. Replicate results are summarized on the Inorganic Precision report contained within this document. All results were within the 20% RPD guidance limit.

7. The analytical methods applied by the laboratory, unless otherwise requested, for all inorganic analyses are derived from the USEPA Method for Chemical Analysis of Water and Wastes (USEPA 600/4-79-020), and Standard Methods for the Examination of Water and Wastewater 16 ed. Methods for the analysis of solid samples are derived from Test Methods for Evaluating Solid Waste (USEPA SW846).

Jack R. Tuschall, Ph.D.
Laboratory Manager
Lionville Analytical Laboratory

5.15.91
Date

pas.21\i4-295

ROY F. WESTON, INC.
GLOSSARY OF TERMS - INORGANIC REPORTS

DATA QUALIFIERS

U - Indicates that the parameter was not detected at or above the reported limit. The associated numerical value is the sample detection limit.

* - Indicates that the original sample result is greater than 4x the spike amount added. The USEPA-CLP has determined that spike results on samples where this occurs may be unreliable and therefore, the control limits are not applicable.

ABBREVIATIONS

MB - Method or preparation blank
MS - Matrix Spike
MSD - Matrix Spike Duplicate.
REP - Sample Replicate.
LC - Indicates a method LCS or Blank Spike.
NC - Not calculable, result below the detection limit.

A suffix of -R and -S following these codes indicates a replicate and spike analysis respectively.

ANALYTICAL METAL METHODS

As :	EPA 206.2	Se :	EPA 270.2
Pb :	EPA 239.2	ICP Scan :	EPA 200.7
Hg :	EPA 245.1	All Others :	EPA 200.7
Tl :	EPA 279.2	EP Leachates (except Hg) :	200.7

The analytical methods applied by the laboratory for the determination of drinking water is 5.2.1.

NOTES

The laboratory prepares a matrix spike at one per 20 frequency for TCLP samples. The Federal Register recommends that all matrix spikes be prepared at greater than 50% of the indigenous analyte concentration. A matrix duplicate is also prepared.

The USEPA-CLP has dropped control limits for silver and antimony due to documented difficulties in obtaining reliable results. WESTON Analytics, however, monitors it's recoveries for unusal occurrences of silver and/or antimony quantification.

Holding times for soil samples have not been promulgated by the USEPA.

For solid samples, all results are reported on a dry weight basis.

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 05/03/91

CLIENT: TRC/SHIELDALLOY
WORK ORDER: 2724-05-01-0000

WESTON BATCH #: 9104L295

SAMPLE	SITE ID	ANALYTE	RESULT	UNITS	REPORTING LIMIT
-001	SMC-A-02	Cyanide, Total	13.0	UG/L	10.0
		Chromium VI	47.9	MG/L	0.50
		Sulfate	53.2	MG/L	20.0
-002	SMC-SC255-02	Cyanide, Total	11.1	UG/L	10.0
		Chromium VI	47.1	MG/L	0.50
		Sulfate	54.7	MG/L	20.0
-003	SMC-B-02	Cyanide, Total	10.0 u	UG/L	10.0
		Chromium VI	1.6	MG/L	0.020
		Sulfate	999	MG/L	250
-004	SMC-H-02	Cyanide, Total	10.0 u	UG/L	10.0
		Chromium VI	0.020u	MG/L	0.020
		Sulfate	33.5	MG/L	5.0
-005	SMC-L-02	Cyanide, Total	10.0 u	UG/L	10.0
		Chromium VI	0.020u	MG/L	0.020
		Sulfate	9.1	MG/L	5.0
)6	SMC-W4-02	Cyanide, Total	10.0 u	UG/L	10.0
		Chromium VI	0.75	MG/L	0.020
		Sulfate	5.0 u	MG/L	5.0
-007	SMC-SC6S-02	Cyanide, Total	16.7 u	UG/L	16.7
		Chromium VI	13.0	MG/L	0.50
		Sulfate	761	MG/L	500
-008	SMC-SC6D-02	Cyanide, Total	10.0 u	UG/L	10.0
		Chromium VI	19.2	MG/L	0.50
		Sulfate	96.9	MG/L	20.0
-009	SMC-SC10S-02	Cyanide, Total	10.0 u	UG/L	10.0
		Chromium VI	0.28	MG/L	0.020
		Sulfate	13.5	MG/L	5.0
-010	SMC-SC10D-02	Cyanide, Total	10.0 u	UG/L	10.0
		Chromium VI	3.8	MG/L	0.10
		Sulfate	32.5	MG/L	5.0

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 05/03/91

CLIENT: TRC/SHIELDALLOY
WORK ORDER: 2724-05-01-0000

WESTON BATCH #: 9104L295

SAMPLE	SITE ID	ANALYTE	RESULT	UNITS	REPORTING LIMIT
-011	SMC-SC24S-02	Cyanide, Total	10.0 u	UG/L	10.0
		Chromium VI	0.020u	MG/L	0.020
		Sulfate	5.0 u	MG/L	5.0
-012	SMC-IW1-02	Cyanide, Total	10.0 u	UG/L	10.0
		Chromium VI	0.020u	MG/L	0.020
		Sulfate	44.6	MG/L	10.0
-013	SMC-SC1S-02	Cyanide, Total	10.0 u	UG/L	10.0
		Chromium VI	0.020u	MG/L	0.020
		Sulfate	150	MG/L	50.0
-014	SMC-SC1D-02	Cyanide, Total	10.0 u	UG/L	10.0
		Chromium VI	0.020	MG/L	0.020
		Sulfate	5.0 u	MG/L	5.0
-015	SMC-SC4S-02	Cyanide, Total	10.0 u	UG/L	10.0
		Chromium VI	0.95	MG/L	0.020
		Sulfate	5.0 u	MG/L	5.0
16	SMC-SC4D-02	Cyanide, Total	10.0 u	UG/L	10.0
		Chromium VI	14.6	MG/L	0.50
		Sulfate	81.2	MG/L	20.0
-017	SMC-FB1-041691	Cyanide, Total	10.0 u	UG/L	10.0
		Chromium VI	0.038	MG/L	0.020
		Sulfate	5.0 u	MG/L	5.0

WESTON

Roy F. Weston, INC.
Lionville Laboratory

CLIENT:TRC/SHIELDALLOY **SAMPLES RECEIVED:4/16/91**
RFW #:9104L295
W.O.#:2724-05-01

METALS NARRATIVE

The set of samples consisted of (17) water samples collected on 4/16/91.

The samples were analyzed according to criteria set forth in CLP SOW 7/87.

The following is a summary of the QC results accompanying these sample results and a description of any problems encountered during their analysis:

1. ICVs, CCVs, and LCSs stock standards were purchased from Inorganic Ventures Laboratory.

2. All ICV and CCV values were within control limits.

3. All ICB and CCB values were within control limits.

4. All preparation blank values were within control limits.

5. All LCS results were within the 80-120% control limits.

Note: The USEPA has dropped control limits for antimony and silver due to documented difficulties in obtaining reliable results. WESTON Analytics has adopted the same policy.

6. All matrix spike recoveries were within the 75-125% control limits with the exception of As, Se, and Ag. All corresponding samples were flagged with an "N" according to CLP protocol.

7. All duplicate analyses were within the 20% RPD control limit.

WESTON

8. As, Pb, and Se sample results were calculated by the method of standard addition (MSA). All corresponding samples were flagged with an "S" according to CLP protocol.

Jack R. Tuschall, Ph.D.
Laboratory Manager
WESTON Analytical Laboratories

Date

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 05/31/91

CLIENT: TRC/SHIELDALLOY
WORK ORDER: 2724-05-01-0000

WESTON BATCH #: 9104L295

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-001	SMC-A-02	Silver, Total	10.0	u	UG/L	10.0
		Aluminum, Total	3580		UG/L	200
		Arsenic, Total	84.2		UG/L	40.0
		Boron, Total	173		UG/L	100
		Barium, Total	200	u	UG/L	200
		Beryllium, Total	5.0	u	UG/L	5.0
		Calcium, Total	5000	u	UG/L	5000
		Cadmium, Total	5.0	u	UG/L	5.0
		Cobalt, Total	50.0	u	UG/L	50.0
		Chromium, Total	50900		UG/L	100
		Copper, Total	25.0	u	UG/L	25.0
		Iron, Total	6520		UG/L	100
		Mercury, Total	1.4		UG/L	0.20
		Potassium, Total	5000	u	UG/L	5000
		Magnesium, Total	5000	u	UG/L	5000
		Manganese, Total	45.5		UG/L	15.0
		Sodium, Total	182000		UG/L	5000
		Niobium, Total	200	u	UG/L	200
		Nickel, Total	40.0	u	UG/L	40.0
		Lead, Total	19.5		UG/L	3.0
		Antimony, Total	1130		UG/L	60.0
		Selenium, Total	11.8		UG/L	5.0
		Strontium, Total	100	u	UG/L	100
		Titanium, Total	100	u	UG/L	100
		Thallium, Total	10.0	u	UG/L	10.0
		Vanadium, Total	99.7		UG/L	50.0
		Zinc, Total	128		UG/L	20.0
		Zirconium, Total	200	u	UG/L	200

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 05/31/91

CLIENT: TRC/SHIELDALLOY
WORK ORDER: 2724-05-01-0000

WESTON BATCH #: 9104L295

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-002	SMC-SC255-02	Silver, Total	10.0	u	UG/L	10.0
		Aluminum, Total	2920		UG/L	200
		Arsenic, Total	220		UG/L	40.0
		Boron, Total	119		UG/L	100
		Barium, Total	200	u	UG/L	200
		Beryllium, Total	5.0	u	UG/L	5.0
		Calcium, Total	5000	u	UG/L	5000
		Cadmium, Total	5.0	u	UG/L	5.0
		Cobalt, Total	50.0	u	UG/L	50.0
		Chromium, Total	44500		UG/L	10.0
		Copper, Total	25.0	u	UG/L	25.0
		Iron, Total	5360		UG/L	100
		Mercury, Total	1.6		UG/L	0.20
		Potassium, Total	5000	u	UG/L	5000
		Magnesium, Total	5000	u	UG/L	5000
		Manganese, Total	36.7		UG/L	15.0
		Sodium, Total	157000		UG/L	5000
		Niobium, Total	200	u	UG/L	200
		Nickel, Total	40.0	u	UG/L	40.0
		Lead, Total	21.5		UG/L	3.0
		Antimony, Total	930		UG/L	60.0
		Selenium, Total	7.8		UG/L	5.0
		Strontium, Total	100	u	UG/L	100
		Titanium, Total	100	u	UG/L	100
		Thallium, Total	10.0	u	UG/L	10.0
		Vanadium, Total	90.1		UG/L	50.0
		Zinc, Total	215		UG/L	20.0
		Zirconium, Total	200	u	UG/L	200

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 05/31/91

CLIENT: TRC/SHIELDALLOY
WORK ORDER: 2724-05-01-0000

WESTON BATCH #: 9104L295

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-003	SMC-B-02	Silver, Total	10.0	u	UG/L	10.0
		Aluminum, Total	208		UG/L	200
		Arsenic, Total	10.0	u	UG/L	10.0
		Barium, Total	200	u	UG/L	200
		Beryllium, Total	5.0	u	UG/L	5.0
		Calcium, Total	10200		UG/L	5000
		Cadmium, Total	5.0	u	UG/L	5.0
		Cobalt, Total	50.0	u	UG/L	50.0
		Chromium, Total	3840		UG/L	10.0
		Copper, Total	25.0	u	UG/L	25.0
		Iron, Total	128000		UG/L	100
		Mercury, Total	0.20	u	UG/L	0.20
		Potassium, Total	171000		UG/L	5000
		Magnesium, Total	16000		UG/L	5000
		Manganese, Total	761		UG/L	15.0
		Sodium, Total	586000		UG/L	5000
		Nickel, Total	40.0	u	UG/L	40.0
		Lead, Total	47.6		UG/L	3.0
		Antimony, Total	68.2		UG/L	60.0
		Selenium, Total	5.0	u	UG/L	5.0
		Thallium, Total	10.0	u	UG/L	10.0
		Vanadium, Total	50.0	u	UG/L	50.0
		Zinc, Total	99.3		UG/L	20.0

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 05/31/91

CLIENT: TRC/SHIELDALLOY
WORK ORDER: 2724-05-01-0000

WESTON BATCH #: 9104L295

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-004	SMC-H-02	Silver, Total	10.0	u	UG/L	10.0
		Aluminum, Total	11200		UG/L	200
		Arsenic, Total	10.0	u	UG/L	10.0
		Barium, Total	200	u	UG/L	200
		Beryllium, Total	5.0	u	UG/L	5.0
		Calcium, Total	5000	u	UG/L	5000
		Cadmium, Total	5.0	u	UG/L	5.0
		Cobalt, Total	50.0	u	UG/L	50.0
		Chromium, Total	3410		UG/L	10.0
		Copper, Total	25.0	u	UG/L	25.0
		Iron, Total	94400		UG/L	100
		Mercury, Total	15.9		UG/L	4.0
		Potassium, Total	5000	u	UG/L	5000
		Magnesium, Total	5000	u	UG/L	5000
		Manganese, Total	614		UG/L	15.0
		Sodium, Total	38700		UG/L	5000
		Nickel, Total	784		UG/L	40.0
		Lead, Total	14.8		UG/L	3.0
		Antimony, Total	60.0	u	UG/L	60.0
		Selenium, Total	5.0	u	UG/L	5.0
		Thallium, Total	10.0	u	UG/L	10.0
		Vanadium, Total	50.0	u	UG/L	50.0
		Zinc, Total	335		UG/L	20.0

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 05/31/91

CLIENT: TRC/SHIELDALLOY
WORK ORDER: 2724-05-01-0000

WESTON BATCH #: 9104L295

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-005	SMC-L-02	Silver, Total	10.0	u	UG/L	10.0
		Aluminum, Total	7710		UG/L	200
		Arsenic, Total	16.5		UG/L	10.0
		Barium, Total	200	u	UG/L	200
		Beryllium, Total	5.0	u	UG/L	5.0
		Calcium, Total	5000	u	UG/L	5000
		Cadmium, Total	5.0	u	UG/L	5.0
		Cobalt, Total	50.0	u	UG/L	50.0
		Chromium, Total	7960		UG/L	10.0
		Copper, Total	26.9		UG/L	25.0
		Iron, Total	48100		UG/L	100
		Mercury, Total	1.1		UG/L	0.20
		Potassium, Total	5230		UG/L	5000
		Magnesium, Total	5000	u	UG/L	5000
		Manganese, Total	255		UG/L	15.0
		Sodium, Total	43900		UG/L	5000
		Nickel, Total	40.0	u	UG/L	40.0
		Lead, Total	43.5		UG/L	3.0
		Antimony, Total	165		UG/L	60.0
		Selenium, Total	5.0	u	UG/L	5.0
		Thallium, Total	10.0	u	UG/L	10.0
		Vanadium, Total	73.4		UG/L	50.0
		Zinc, Total	584		UG/L	20.0

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 05/31/91

CLIENT: TRC/SHIELDALLOY
WORK ORDER: 2724-05-01-0000

WESTON BATCH #: 9104L295

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-006	SMC-W4-02	Silver, Total	10.0	u	UG/L	10.0
		Aluminum, Total	206		UG/L	200
		Arsenic, Total	10.0	u	UG/L	10.0
		Boron, Total	699		UG/L	100
		Barium, Total	200	u	UG/L	200
		Beryllium, Total	5.0	u	UG/L	5.0
		Calcium, Total	5000	u	UG/L	5000
		Cadmium, Total	5.0	u	UG/L	5.0
		Cobalt, Total	50.0	u	UG/L	50.0
		Chromium, Total	715		UG/L	10.0
		Copper, Total	25.0	u	UG/L	25.0
		Iron, Total	426		UG/L	100
		Mercury, Total	0.20	u	UG/L	0.20
		Potassium, Total	5000	u	UG/L	5000
		Magnesium, Total	5000	u	UG/L	5000
		Manganese, Total	32.8		UG/L	15.0
		Sodium, Total	21200		UG/L	5000
		Niobium, Total	200	u	UG/L	200
		Nickel, Total	40.0	u	UG/L	40.0
		Lead, Total	18.8		UG/L	3.0
		Antimony, Total	60.0	u	UG/L	60.0
		Selenium, Total	5.0	u	UG/L	5.0
		Strontium, Total	100	u	UG/L	100
		Titanium, Total	100	u	UG/L	100
		Thallium, Total	10.0	u	UG/L	10.0
		Vanadium, Total	50.0	u	UG/L	50.0
		Zinc, Total	87.1		UG/L	20.0
		Zirconium, Total	200	u	UG/L	200

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 05/31/91

CLIENT: TRC/SHIELDALLOY
WORK ORDER: 2724-05-01-0000

WESTON BATCH #: 9104L295

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-007	SMC-SC6S-02	Silver, Total	10.0	u	UG/L	10.0
		Aluminum, Total	380		UG/L	200
		Arsenic, Total	10.0	u	UG/L	10.0
		Barium, Total	200	u	UG/L	200
		Beryllium, Total	5.0	u	UG/L	5.0
		Calcium, Total	5000	u	UG/L	5000
		Cadmium, Total	5.0	u	UG/L	5.0
		Cobalt, Total	50.0	u	UG/L	50.0
		Chromium, Total	5190		UG/L	10.0
		Copper, Total	25.0	u	UG/L	25.0
		Iron, Total	289		UG/L	100
		Mercury, Total	0.20	u	UG/L	0.20
		Potassium, Total	56000		UG/L	5000
		Magnesium, Total	5000	u	UG/L	5000
		Manganese, Total	15.0	u	UG/L	15.0
		Sodium, Total	477000		UG/L	5000
		Nickel, Total	40.0	u	UG/L	40.0
		Lead, Total	14.8		UG/L	3.0
		Antimony, Total	122		UG/L	60.0
		Selenium, Total	5.0	u	UG/L	5.0
		Thallium, Total	10.0	u	UG/L	10.0
		Vanadium, Total	50.0	u	UG/L	50.0
		Zinc, Total	44.0		UG/L	20.0

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 05/31/91

CLIENT: TRC/SHIELDALLOY
WORK ORDER: 2724-05-01-0000

WESTON BATCH #: 9104L295

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-008	SMC-SC6D-02	Silver, Total	10.0	u	UG/L	10.0
		Aluminum, Total	3870		UG/L	200
		Arsenic, Total	10.0	u	UG/L	10.0
		Barium, Total	200	u	UG/L	200
		Beryllium, Total	5.0	u	UG/L	5.0
		Calcium, Total	5000	u	UG/L	5000
		Cadmium, Total	5.0	u	UG/L	5.0
		Cobalt, Total	50.0	u	UG/L	50.0
		Chromium, Total	21000		UG/L	10.0
		Copper, Total	25.0	u	UG/L	25.0
		Iron, Total	5890		UG/L	100
		Mercury, Total	0.46		UG/L	0.20
		Potassium, Total	5000	u	UG/L	5000
		Magnesium, Total	5000	u	UG/L	5000
		Manganese, Total	19.4		UG/L	15.0
		Sodium, Total	87400		UG/L	5000
		Nickel, Total	40.0	u	UG/L	40.0
		Lead, Total	4.7		UG/L	3.0
		Antimony, Total	465		UG/L	60.0
		Selenium, Total	5.0	u	UG/L	5.0
		Thallium, Total	10.0	u	UG/L	10.0
		Vanadium, Total	50.0	u	UG/L	50.0
		Zinc, Total	53.2		UG/L	20.0

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 05/31/91

CLIENT: TRC/SHIELDALLOY
WORK ORDER: 2724-05-01-0000

WESTON BATCH #: 9104L295

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-009	SMC-SC10S-02	Silver, Total	10.0	u	UG/L	10.0
		Aluminum, Total	1460		UG/L	200
		Arsenic, Total	138		UG/L	100
		Barium, Total	200	u	UG/L	200
		Beryllium, Total	5.0	u	UG/L	5.0
		Calcium, Total	5000	u	UG/L	5000
		Cadmium, Total	5.0	u	UG/L	5.0
		Cobalt, Total	50.0	u	UG/L	50.0
		Chromium, Total	284		UG/L	10.0
		Copper, Total	25.0	u	UG/L	25.0
		Iron, Total	116		UG/L	100
		Mercury, Total	0.20	u	UG/L	0.20
		Potassium, Total	5000	u	UG/L	5000
		Magnesium, Total	5000	u	UG/L	5000
		Manganese, Total	15.0	u	UG/L	15.0
		Sodium, Total	66100		UG/L	5000
		Nickel, Total	40.0	u	UG/L	40.0
		Lead, Total	4.0		UG/L	3.0
		Antimony, Total	60.0	u	UG/L	60.0
		Selenium, Total	5.0	u	UG/L	5.0
		Thallium, Total	10.0	u	UG/L	10.0
		Vanadium, Total	153		UG/L	50.0
		Zinc, Total	20.0	u	UG/L	20.0

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 05/31/91

CLIENT: TRC/SHIELDALLOY
WORK ORDER: 2724-05-01-0000

WESTON BATCH #: 9104L295

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-010	SMC-SC10D-02	Silver, Total	10.0	u	UG/L	10.0
		Aluminum, Total	297		UG/L	200
		Arsenic, Total	10.0	u	UG/L	10.0
		Barium, Total	200	u	UG/L	200
		Beryllium, Total	5.0	u	UG/L	5.0
		Calcium, Total	5000	u	UG/L	5000
		Cadmium, Total	5.0	u	UG/L	5.0
		Cobalt, Total	50.0	u	UG/L	50.0
		Chromium, Total	2590		UG/L	10.0
		Copper, Total	25.0	u	UG/L	25.0
		Iron, Total	2170		UG/L	100
		Mercury, Total	0.20	u	UG/L	0.20
		Potassium, Total	5000	u	UG/L	5000
		Magnesium, Total	5000	u	UG/L	5000
		Manganese, Total	15.0	u	UG/L	15.0
		Sodium, Total	38800		UG/L	5000
		Nickel, Total	40.0	u	UG/L	40.0
		Lead, Total	4.2		UG/L	3.0
		Antimony, Total	66.2		UG/L	60.0
		Selenium, Total	5.3		UG/L	5.0
		Thallium, Total	10.0	u	UG/L	10.0
		Vanadium, Total	50.0	u	UG/L	50.0
		Zinc, Total	56.4		UG/L	20.0

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 05/31/91

CLIENT: TRC/SHIELDALLOY
WORK ORDER: 2724-05-01-0000

WESTON BATCH #: 9104L295

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-011	SMC-SC24S-02	Silver, Total	10.0	u	UG/L	10.0
		Aluminum, Total	2810		UG/L	200
		Arsenic, Total	10.0	u	UG/L	10.0
		Barium, Total	329		UG/L	200
		Beryllium, Total	5.0	u	UG/L	5.0
		Calcium, Total	17300		UG/L	5000
		Cadmium, Total	5.0	u	UG/L	5.0
		Cobalt, Total	50.0	u	UG/L	50.0
		Chromium, Total	10.0	u	UG/L	10.0
		Copper, Total	25.0	u	UG/L	25.0
		Iron, Total	715		UG/L	100
		Mercury, Total	0.20	u	UG/L	0.20
		Potassium, Total	5000	u	UG/L	5000
		Magnesium, Total	12800		UG/L	5000
		Manganese, Total	44.0		UG/L	15.0
		Sodium, Total	9430		UG/L	5000
		Nickel, Total	40.0	u	UG/L	40.0
		Lead, Total	3.0	u	UG/L	3.0
		Antimony, Total	60.0	u	UG/L	60.0
		Selenium, Total	5.0	u	UG/L	5.0
		Thallium, Total	10.0	u	UG/L	10.0
		Vanadium, Total	50.0	u	UG/L	50.0
		Zinc, Total	20.0	u	UG/L	20.0

0000019

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 05/31/91

CLIENT: TRC/SHIELDALLOY
WORK ORDER: 2724-05-01-0000

WESTON BATCH #: 9104L295

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-012	SMC-IW1-02	Silver, Total	10.0	u	UG/L	10.0
		Aluminum, Total	200	u	UG/L	200
		Arsenic, Total	10.0	u	UG/L	10.0
		Barium, Total	200	u	UG/L	200
		Beryllium, Total	5.0	u	UG/L	5.0
		Calcium, Total	5000	u	UG/L	5000
		Cadmium, Total	5.0	u	UG/L	5.0
		Cobalt, Total	50.0	u	UG/L	50.0
		Chromium, Total	10.0	u	UG/L	10.0
		Copper, Total	25.0	u	UG/L	25.0
		Iron, Total	100	u	UG/L	100
		Mercury, Total	0.20	u	UG/L	0.20
		Potassium, Total	5000	u	UG/L	5000
		Magnesium, Total	5000	u	UG/L	5000
		Manganese, Total	15.0	u	UG/L	15.0
		Sodium, Total	35400		UG/L	5000
		Nickel, Total	40.0	u	UG/L	40.0
		Lead, Total	3.0	u	UG/L	3.0
		Antimony, Total	60.0	u	UG/L	60.0
		Selenium, Total	5.0	u	UG/L	5.0
		Thallium, Total	10.0	u	UG/L	10.0
		Vanadium, Total	50.0	u	UG/L	50.0
		Zinc, Total	20.0	u	UG/L	20.0

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 05/31/91

CLIENT: TRC/SHIELDALLOY
WORK ORDER: 2724-05-01-0000

WESTON BATCH #: 9104L295

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-013	SMC-SC1S-02	Silver, Total	10.0	u	UG/L	10.0
		Aluminum, Total	200	u	UG/L	200
		Arsenic, Total	10.0	u	UG/L	10.0
		Barium, Total	200	u	UG/L	200
		Beryllium, Total	5.0	u	UG/L	5.0
		Calcium, Total	5000	u	UG/L	5000
		Cadmium, Total	5.0	u	UG/L	5.0
		Cobalt, Total	50.0	u	UG/L	50.0
		Chromium, Total	10.0	u	UG/L	10.0
		Copper, Total	25.0	u	UG/L	25.0
		Iron, Total	100	u	UG/L	100
		Mercury, Total	1.4		UG/L	0.20
		Potassium, Total	5000	u	UG/L	5000
		Magnesium, Total	5000	u	UG/L	5000
		Manganese, Total	15.0	u	UG/L	15.0
		Sodium, Total	76400		UG/L	5000
		Nickel, Total	40.0	u	UG/L	40.0
		Lead, Total	3.0	u	UG/L	3.0
		Antimony, Total	60.0	u	UG/L	60.0
		Selenium, Total	5.0	u	UG/L	5.0
		Thallium, Total	10.0	u	UG/L	10.0
		Vanadium, Total	50.0	u	UG/L	50.0
		Zinc, Total	20.0	u	UG/L	20.0

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 05/31/91

CLIENT: TRC/SHIELDALLOY
WORK ORDER: 2724-05-01-0000

WESTON BATCH #: 9104L295

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-014	SMC-SC1D-02	Silver, Total	10.0	u	UG/L	10.0
		Aluminum, Total	200	u	UG/L	200
		Arsenic, Total	10.0	u	UG/L	10.0
		Barium, Total	200	u	UG/L	200
		Beryllium, Total	5.0	u	UG/L	5.0
		Calcium, Total	5000	u	UG/L	5000
		Cadmium, Total	5.0	u	UG/L	5.0
		Cobalt, Total	50.0	u	UG/L	50.0
		Chromium, Total	10.0	u	UG/L	10.0
		Copper, Total	25.0	u	UG/L	25.0
		Iron, Total	520		UG/L	100
		Mercury, Total	0.26		UG/L	0.20
		Potassium, Total	5000	u	UG/L	5000
		Magnesium, Total	5000	u	UG/L	5000
		Manganese, Total	16.5		UG/L	15.0
		Sodium, Total	13600		UG/L	5000
		Nickel, Total	40.0	u	UG/L	40.0
		Lead, Total	7.3		UG/L	3.0
		Antimony, Total	60.0	u	UG/L	60.0
		Selenium, Total	5.0	u	UG/L	5.0
		Thallium, Total	10.0	u	UG/L	10.0
		Vanadium, Total	50.0	u	UG/L	50.0
		Zinc, Total	30.2		UG/L	20.0

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 05/31/91

CLIENT: TRC/SHIELDALLOY
WORK ORDER: 2724-05-01-0000

WESTON BATCH #: 9104L295

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-015	SMC-SC4S-02	Silver, Total	10.0	u	UG/L	10.0
		Aluminum, Total	200	u	UG/L	200
		Arsenic, Total	10.0	u	UG/L	10.0
		Barium, Total	200	u	UG/L	200
		Beryllium, Total	5.0	u	UG/L	5.0
		Calcium, Total	5000	u	UG/L	5000
		Cadmium, Total	5.0	u	UG/L	5.0
		Cobalt, Total	50.0	u	UG/L	50.0
		Chromium, Total	956		UG/L	10.0
		Copper, Total	25.0	u	UG/L	25.0
		Iron, Total	554		UG/L	100
		Mercury, Total	0.20	u	UG/L	0.20
		Potassium, Total	5000	u	UG/L	5000
		Magnesium, Total	5000	u	UG/L	5000
		Manganese, Total	15.0	u	UG/L	15.0
		Sodium, Total	14800		UG/L	5000
		Nickel, Total	40.0	u	UG/L	40.0
		Lead, Total	3.0	u	UG/L	3.0
		Antimony, Total	60.0	u	UG/L	60.0
		Selenium, Total	5.0	u	UG/L	5.0
		Thallium, Total	10.0	u	UG/L	10.0
		Vanadium, Total	50.0	u	UG/L	50.0
		Zinc, Total	30.6		UG/L	20.0

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 05/31/91

CLIENT: TRC/SHIELDALLOY
WORK ORDER: 2724-05-01-0000

WESTON BATCH #: 9104L295

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-016	SMC-SC4D-02	Silver, Total	10.0	u	UG/L	10.0
		Aluminum, Total	389		UG/L	200
		Arsenic, Total	10.0	u	UG/L	10.0
		Barium, Total	200	u	UG/L	200
		Beryllium, Total	5.0	u	UG/L	5.0
		Calcium, Total	5000	u	UG/L	5000
		Cadmium, Total	5.0	u	UG/L	5.0
		Cobalt, Total	50.0	u	UG/L	50.0
		Chromium, Total	12600		UG/L	10.0
		Copper, Total	25.0	u	UG/L	25.0
		Iron, Total	2300		UG/L	100
		Mercury, Total	0.20	u	UG/L	0.20
		Potassium, Total	8860		UG/L	5000
		Magnesium, Total	5000	u	UG/L	5000
		Manganese, Total	15.0	u	UG/L	15.0
		Sodium, Total	79200		UG/L	5000
		Nickel, Total	40.0	u	UG/L	40.0
		Lead, Total	4.1		UG/L	3.0
		Antimony, Total	272		UG/L	60.0
		Selenium, Total	5.0	u	UG/L	5.0
		Thallium, Total	10.0	u	UG/L	10.0
		Vanadium, Total	50.0	u	UG/L	50.0
		Zinc, Total	25.3		UG/L	20.0

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 05/31/91

CLIENT: TRC/SHIELDALLOY
WORK ORDER: 2724-05-01-0000

WESTON BATCH #: 9104L295

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-017	SMC-FB1-041691	Silver, Total	10.0	u	UG/L	10.0
		Aluminum, Total	200	u	UG/L	200
		Arsenic, Total	10.0	u	UG/L	10.0
		Boron, Total	100	u	UG/L	100
		Barium, Total	200	u	UG/L	200
		Beryllium, Total	5.0	u	UG/L	5.0
		Calcium, Total	5000	u	UG/L	5000
		Cadmium, Total	5.0	u	UG/L	5.0
		Cobalt, Total	50.0	u	UG/L	50.0
		Chromium, Total	10.0	u	UG/L	10.0
		Copper, Total	25.0	u	UG/L	25.0
		Iron, Total	100	u	UG/L	100
		Mercury, Total	0.20	u	UG/L	0.20
		Potassium, Total	5000	u	UG/L	5000
		Magnesium, Total	5000	u	UG/L	5000
		Manganese, Total	15.0	u	UG/L	15.0
		Sodium, Total	5000	u	UG/L	5000
		Niobium, Total	200	u	UG/L	200
		Nickel, Total	40.0	u	UG/L	40.0
		Lead, Total	3.0	u	UG/L	3.0
		Antimony, Total	60.0	u	UG/L	60.0
		Selenium, Total	5.0	u	UG/L	5.0
		Strontium, Total	100	u	UG/L	100
		Titanium, Total	100	u	UG/L	100
		Thallium, Total	10.0	u	UG/L	10.0
		Vanadium, Total	50.0	u	UG/L	50.0
		Zinc, Total	20.0	u	UG/L	20.0
		Zirconium, Total	200	u	UG/L	200

00000031A

U.S. EPA - CLP

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: Roy F. Weston, Inc. Contract: 2724-05-01

Lab Code: WESTON Case No: TRC SAS No.: SDG No.: CLP295

SOW No.: 7/87

EPA Sample No.	Lab Sample ID.
SMC-A-02	9104295001
SMC-A-02 D	9104295001 R
SMC-A-02 S	9104295001 S
SMC-SC255-02	9104295002
SMC-B-02	9104295003
SMC-H-02	9104295004
SMC-L-02	9104295005
SMC-W4-02	9104295006
SMC-SC6S-02	9104295007
SMC-SC6D-02	9104295008
SMC-SC10S-02	9104295009
SMC-SC10D-02	9104295010
SMC-SC24S-02	9104295011
SMC-IW1-02	9104295012
SMC-SC1S-02	9104295013
SMC-SC1D-02	9104295014
SMC-SC4S-02	9104295015
SMC-SC4D-02	9104295016
SMC-FB1-041691	9104295017

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:

Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Lab Manager: Linda A. Hayden

Date: 6.5.91

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SMC-A-02

Lab Name:Roy F. Weston, Inc. Contract:2724-05-01

Lab Code:WESTON Case No:TRC SAS No.: SDG No.:CLP295

Matrix (soil/water):WATER Lab Sample ID:9104295001

Level (low/med): LOW Date Received:04/16/91

% Solids:

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3580			P
7440-36-0	Antimony	1130			P
7440-38-2	Arsenic	84.2		SN	F
7440-39-3	Barium	43.3	B		P
7440-41-7	Beryllium	1.00	U		P
7440-43-9	Cadmium	4.00	U		P
7440-70-2	Calcium	733	B		P
7440-47-3	Chromium	52280		E	P
7440-48-4	Cobalt	22.7	B		P
7440-50-8	Copper	17.8	B		P
7439-89-6	Iron	6520		E	P
7439-92-1	Lead	19.5		S	F
7439-95-4	Magnesium	564	B		P
7439-96-5	Manganese	45.5			P
7439-97-6	Mercury	1.39			CV
7440-02-0	Nickel	7.80	B		P
7440-09-7	Potassium	1250	B		P
7782-49-2	Selenium	11.8		SN	F
7440-22-4	Silver	6.30	B	N	P
7440-23-5	Sodium	182000		E	P
7440-28-0	Thallium	5.00	U		F
7440-62-2	Vanadium	99.7			P
7440-66-6	Zinc	128			P
	Cyanide	13.0			C

Color Before:COLORLESS Clarity Before:CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SMC-SC255-02

Lab Name:Roy F. Weston, Inc. Contract:2724-05-01

Lab Code:WESTON Case No:TRC SAS No.: SDG No.:CLP295

Matrix (soil/water):WATER Lab Sample ID:9104295002

Level (low/med): LOW Date Received:04/16/91

% Solids:

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	2920			P
7440-36-0	Antimony	930			P
7440-38-2	Arsenic	19.2		N S	F
7440-39-3	Barium	34.1	B		P
7440-41-7	Beryllium	1.00	U		P
7440-43-9	Cadmium	4.00	U		P
7440-70-2	Calcium	624	B		P
7440-47-3	Chromium	44500	U	E	P
7440-48-4	Cobalt	17.0	B		P
7440-50-8	Copper	15.7	B		P
7439-89-6	Iron	5360		E	P
7439-92-1	Lead	21.5		S	F
7439-95-4	Magnesium	566	B		P
7439-96-5	Manganese	36.7			P
7439-97-6	Mercury	1.58			CV
7440-02-0	Nickel	7.00	U		P
7440-09-7	Potassium	1710	B		P
7782-49-2	Selenium	7.80		N	F
7440-22-4	Silver	4.00	U	N	P
7440-23-5	Sodium	157000		E	P
7440-28-0	Thallium	5.00	U		F
7440-62-2	Vanadium	90.1			P
7440-66-6	Zinc	215			P
	Cyanide	11.1			C

Color Before:COLORLESS Clarity Before:CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SMC-B-02

Lab Name:Roy F. Weston, Inc. Contract:2724-05-01

Lab Code:WESTON Case No:TRC SAS No.: SDG No.:CLP295

Matrix (soil/water):WATER Lab Sample ID:9104295003

Level (low/med): LOW Date Received:04/16/91

% Solids:

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	208			P
7440-36-0	Antimony	68.2			P
7440-38-2	Arsenic	2.40	B	NW	F
7440-39-3	Barium	37.6	B		P
7440-41-7	Beryllium	1.00	U		P
7440-43-9	Cadmium	4.00	U		P
7440-70-2	Calcium	10200			P
7440-47-3	Chromium	3840	U	E	P
7440-48-4	Cobalt	11.3	B		P
7440-50-8	Copper	18.5	B		P
7439-89-6	Iron	128000		E	P
7439-92-1	Lead	47.6		S	F
7439-95-4	Magnesium	16000			P
7439-96-5	Manganese	761			P
7439-97-6	Mercury	0.200	U		CV
7440-02-0	Nickel	11.7	B		P
7440-09-7	Potassium	171000			P
7782-49-2	Selenium	1.70	B	NW	F
7440-22-4	Silver	4.00	U	N	P
7440-23-5	Sodium	586000		E	P
7440-28-0	Thallium	5.00	U	W	F
7440-62-2	Vanadium	8.00	U		P
7440-66-6	Zinc	99.3			P
	Cyanide	10.00	U		C

Color Before:COLORLESS Clarity Before:CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

0000035

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SMC-B-02

Lab Name:Roy F. Weston, Inc. Contract:2724-05-01

Lab Code:WESTON Case No:TRC SAS No.: SDG No.:CLP295

Matrix (soil/water):WATER Lab Sample ID:9104295004

Level (low/med): LOW Date Received:04/16/91

% Solids:

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	11200			P
7440-36-0	Antimony	59.3	B		P
7440-38-2	Arsenic	2.60	B	NW	F
7440-39-3	Barium	58.1	B		P
7440-41-7	Beryllium	1.00	U		P
7440-43-9	Cadmium	4.00	U		P
7440-70-2	Calcium	2660	B		P
7440-47-3	Chromium	3410	U	E	P
7440-48-4	Cobalt	15.8	B		P
7440-50-8	Copper	7.00	U		P
7439-89-6	Iron	94400		E	P
7439-92-1	Lead	14.8		S	F
7439-95-4	Magnesium	1760	B		P
7439-96-5	Manganese	614			P
7439-97-6	Mercury	15.9			CV
7440-02-0	Nickel	784			P
7440-09-7	Potassium	3380	B		P
7782-49-2	Selenium	1.00	U	N	F
7440-22-4	Silver	4.00	U	N	P
7440-23-5	Sodium	38700		E	P
7440-28-0	Thallium	5.00	U	W	F
7440-62-2	Vanadium	8.00	U		P
7440-66-6	Zinc	335			P
	Cyanide	10.00	U		C

Color Before:COLORLESS Clarity Before:CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

0000036

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SMC-L-02

Lab Name:Roy F. Weston, Inc. Contract:2724-05-01

Lab Code:WESTON Case No:TRC SAS No.: SDG No.:CLP295

Matrix (soil/water):WATER Lab Sample ID:9104295005

Level (low/med): LOW Date Received:04/16/91

% Solids:

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	7710			P
7440-36-0	Antimony	165			P
7440-38-2	Arsenic	16.5		NS	F
7440-39-3	Barium	156	B		P
7440-41-7	Beryllium	1.00	U		P
7440-43-9	Cadmium	4.00	U		P
7440-70-2	Calcium	3590	B		P
7440-47-3	Chromium	7960	U	E	P
7440-48-4	Cobalt	11.1	B		P
7440-50-8	Copper	26.9			P
7439-89-6	Iron	48100		E	P
7439-92-1	Lead	43.5		S	F
7439-95-4	Magnesium	1560	B		P
7439-96-5	Manganese	255			P
7439-97-6	Mercury	1.09			CV
7440-02-0	Nickel	22.7	B		P
7440-09-7	Potassium	5230			P
7782-49-2	Selenium	1.00	U	N	F
7440-22-4	Silver	4.00	U	N	P
7440-23-5	Sodium	43900		E	P
7440-28-0	Thallium	5.00	U		F
7440-62-2	Vanadium	73.4			P
7440-66-6	Zinc	584			P
	Cyanide	10.00	U		C

Color Before:COLORLESS Clarity Before:CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

FORM I - IN

0000037

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SMC-W4-02

Lab Name:Roy F. Weston, Inc. Contract:2724-05-01

Lab Code:WESTON Case No:TRC SAS No.: SDG No.:CLP295

Matrix (soil/water):WATER Lab Sample ID:9104295006

Level (low/med): LOW Date Received:04/16/91

% Solids:

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	206			P
7440-36-0	Antimony	22.2	B		P
7440-38-2	Arsenic	2.00	U	NW	F
7440-39-3	Barium	28.0	B		P
7440-41-7	Beryllium	1.00	U		P
7440-43-9	Cadmium	4.00	U		P
7440-70-2	Calcium	1760	B		P
7440-47-3	Chromium	715	U	E	P
7440-48-4	Cobalt	4.00	U		P
7440-50-8	Copper	11.7	B		P
7439-89-6	Iron	426		E	P
7439-92-1	Lead	18.8		S	F
7439-95-4	Magnesium	2070	B		P
7439-96-5	Manganese	32.8			P
7439-97-6	Mercury	0.200	U		CV
7440-02-0	Nickel	13.4	B		P
7440-09-7	Potassium	2800	B		P
7782-49-2	Selenium	1.00	U	N	F
7440-22-4	Silver	4.00	U	N	P
7440-23-5	Sodium	21200		E	P
7440-28-0	Thallium	5.00	U		F
7440-62-2	Vanadium	8.00	U		P
7440-66-6	Zinc	87.1			P
	Cyanide	10.00	U		C

Color Before:COLORLESS Clarity Before:CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

FORM I - IN

0000038

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SMC-SC6S-02

Lab Name:Roy F. Weston, Inc. Contract:2724-05-01

Lab Code:WESTON Case No:TRC SAS No.: SDG No.:CLP295

Matrix (soil/water):WATER Lab Sample ID:9104295007

Level (low/med): LOW Date Received:04/16/91

% Solids:

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	380			P
7440-36-0	Antimony	122			P
7440-38-2	Arsenic	5.50	B	NW	F
7440-39-3	Barium	5.00	U		P
7440-41-7	Beryllium	1.00	U		P
7440-43-9	Cadmium	4.00	U		P
7440-70-2	Calcium	665	B		P
7440-47-3	Chromium	5190	U	E	P
7440-48-4	Cobalt	4.00	U		P
7440-50-8	Copper	8.30	B		P
7439-89-6	Iron	289		E	P
7439-92-1	Lead	14.8		S	F
7439-95-4	Magnesium	84.0	U		P
7439-96-5	Manganese	4.70	B		P
7439-97-6	Mercury	0.200	U		CV
7440-02-0	Nickel	14.3	B		P
7440-09-7	Potassium	56000			P
7782-49-2	Selenium	1.80	B	NW	F
7440-22-4	Silver	4.00	U	N	P
7440-23-5	Sodium	477000		E	P
7440-28-0	Thallium	5.00	U	W	F
7440-62-2	Vanadium	28.8	B		P
7440-66-6	Zinc	44.0			P
	Cyanide	10.00	U		C

Color Before:COLORLESS Clarity Before:CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

FORM I - IN

0000039

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SMC-SC6D-02

Lab Name:Roy F. Weston, Inc. Contract:2724-05-01

Lab Code:WESTON Case No:TRC SAS No.: SDG No.:CLP295

Matrix (soil/water):WATER Lab Sample ID:9104295008

Level (low/med): LOW Date Received:04/16/91

% Solids:

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3870			P
7440-36-0	Antimony	465			P
7440-38-2	Arsenic	6.20	B	NW	F
7440-39-3	Barium	24.2	B		P
7440-41-7	Beryllium	1.00	U		P
7440-43-9	Cadmium	4.00	U		P
7440-70-2	Calcium	1140	B		P
7440-47-3	Chromium	21000	U	E	P
7440-48-4	Cobalt	9.30	B		P
7440-50-8	Copper	16.9	B		P
7439-89-6	Iron	5890		E	P
7439-92-1	Lead	4.70			F
7439-95-4	Magnesium	1040	B		P
7439-96-5	Manganese	19.4			P
7439-97-6	Mercury	0.455			CV
7440-02-0	Nickel	7.00	U		P
7440-09-7	Potassium	2730	B		P
7782-49-2	Selenium	4.20	B	N	F
7440-22-4	Silver	4.00	U	N	P
7440-23-5	Sodium	87400		E	P
7440-28-0	Thallium	5.00	U		F
7440-62-2	Vanadium	32.7	B		P
7440-66-6	Zinc	53.2			P
	Cyanide	10.00	U		C

Color Before:COLORLESS Clarity Before:CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

FORM I - IN

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SMC-SC10S-02

Lab Name:Roy F. Weston, Inc. Contract:2724-05-01

Lab Code:WESTON Case No:TRC SAS No.: SDG No.:CLP295

Matrix (soil/water):WATER Lab Sample ID:9104295009

Level (low/med): LOW Date Received:04/16/91

% Solids:

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	1460			P
7440-36-0	Antimony	29.1	B		P
7440-38-2	Arsenic	138		N	F
7440-39-3	Barium	5.00	U		P
7440-41-7	Beryllium	1.10	B		P
7440-43-9	Cadmium	4.00	U		P
7440-70-2	Calcium	165	B		P
7440-47-3	Chromium	284	U	E	P
7440-48-4	Cobalt	4.00	U		P
7440-50-8	Copper	7.00	U		P
7439-89-6	Iron	116		E	P
7439-92-1	Lead	4.00		W	F
7439-95-4	Magnesium	84.0	U		P
7439-96-5	Manganese	6.60	B		P
7439-97-6	Mercury	0.200	U		CV
7440-02-0	Nickel	7.00	U		P
7440-09-7	Potassium	1020	B		P
7782-49-2	Selenium	1.00	U	N	F
7440-22-4	Silver	4.00	U	N	P
7440-23-5	Sodium	66100		E	P
7440-28-0	Thallium	5.00	U		F
7440-62-2	Vanadium	153			P
7440-66-6	Zinc	17.7	B		P
	Cyanide	10.00	U		C

Color Before:COLORLESS Clarity Before:CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SMC-SC10D-02

Lab Name:Roy F. Weston, Inc. Contract:2724-05-01

Lab Code:WESTON Case No:TRC SAS No.: SDG No.:CLP295

Matrix (soil/water):WATER Lab Sample ID:9104295010

Level (low/med): LOW Date Received:04/16/91

% Solids:

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	297			P
7440-36-0	Antimony	66.2			P
7440-38-2	Arsenic	4.50	B	NW	F
7440-39-3	Barium	5.90	B		P
7440-41-7	Beryllium	1.00	U		P
7440-43-9	Cadmium	4.00	U		P
7440-70-2	Calcium	3990	B		P
7440-47-3	Chromium	2590	U	E	P
7440-48-4	Cobalt	4.00	U		P
7440-50-8	Copper	7.00	U		P
7439-89-6	Iron	2170		E	P
7439-92-1	Lead	4.20		W	F
7439-95-4	Magnesium	196	B		P
7439-96-5	Manganese	7.60	B		P
7439-97-6	Mercury	0.200	U		CV
7440-02-0	Nickel	18.8	B		P
7440-09-7	Potassium	1010	U		P
7782-49-2	Selenium	5.30		N	F
7440-22-4	Silver	4.00	U	N	P
7440-23-5	Sodium	38800		E	P
7440-28-0	Thallium	5.00	U		F
7440-62-2	Vanadium	9.80	B		P
7440-66-6	Zinc	56.4			P
	Cyanide	10.00	U		C

Color Before:COLORLESS Clarity Before:CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

0000042

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SMC-SC24S-02

Lab Name:Roy F. Weston, Inc. Contract:2724-05-01

Lab Code:WESTON Case No:TRC SAS No.: SDG No.:CLP295

Matrix (soil/water):WATER Lab Sample ID:9104295011

Level (low/med): LOW Date Received:04/16/91

% Solids:

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	2810			P
7440-36-0	Antimony	19.8	B		P
7440-38-2	Arsenic	2.00	U	N	F
7440-39-3	Barium	329			P
7440-41-7	Beryllium	1.00	U		P
7440-43-9	Cadmium	4.00	U		P
7440-70-2	Calcium	17300			P
7440-47-3	Chromium	3.00	U	E	P
7440-48-4	Cobalt	8.50	B		P
7440-50-8	Copper	7.00	U		P
7439-89-6	Iron	715		E	P
7439-92-1	Lead	2.00	U	W	F
7439-95-4	Magnesium	12800			P
7439-96-5	Manganese	44.0			P
7439-97-6	Mercury	0.200	U		CV
7440-02-0	Nickel	10.6	B		P
7440-09-7	Potassium	3080	B		P
7782-49-2	Selenium	1.00	U	N	F
7440-22-4	Silver	4.00	U	N	P
7440-23-5	Sodium	9430		E	P
7440-28-0	Thallium	5.00	U	W	F
7440-62-2	Vanadium	8.00	U		P
7440-66-6	Zinc	19.9	B		P
	Cyanide	10.00	U		C

Color Before:COLORLESS Clarity Before:CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

FORM I - IN

0000043

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SMC-IW1-02

Lab Name:Roy F. Weston, Inc. Contract:2724-05-01

Lab Code:WESTON Case No:TRC SAS No.: SDG No.:CLP295

Matrix (soil/water):WATER Lab Sample ID:9104295012

Level (low/med): LOW Date Received:04/16/91

% Solids:

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	77.0	U		P
7440-36-0	Antimony	26.9	B		P
7440-38-2	Arsenic	2.00	U	NW	F
7440-39-3	Barium	19.5	B		P
7440-41-7	Beryllium	1.00	U		P
7440-43-9	Cadmium	4.00	U		P
7440-70-2	Calcium	348	B		P
7440-47-3	Chromium	3.00	U	E	P
7440-48-4	Cobalt	4.00	U		P
7440-50-8	Copper	7.00	U		P
7439-89-6	Iron	69.4	B	E	P
7439-92-1	Lead	2.00	U	W	F
7439-95-4	Magnesium	254	B		P
7439-96-5	Manganese	3.00	B		P
7439-97-6	Mercury	0.200	U		CV
7440-02-0	Nickel	7.00	U		P
7440-09-7	Potassium	1010	U		P
7782-49-2	Selenium	2.10	B	N	F
7440-22-4	Silver	5.40	B	N	P
7440-23-5	Sodium	35400		E	P
7440-28-0	Thallium	5.00	U		F
7440-62-2	Vanadium	8.00	U		P
7440-66-6	Zinc	9.70	B		P
	Cyanide	10.00	U		C

Color Before:COLORLESS Clarity Before:CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

FORM I - IN

0000044

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SMC-SC1S-02

Lab Name:Roy F. Weston, Inc. Contract:2724-05-01

Lab Code:WESTON Case No:TRC SAS No.: SDG No.:CLP295

Matrix (soil/water):WATER Lab Sample ID:9104295013

Level (low/med): LOW Date Received:04/16/91

% Solids:

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	77.0	U		P
7440-36-0	Antimony	19.0	B		P
7440-38-2	Arsenic	2.00	U	NW	F
7440-39-3	Barium	15.2	B		P
7440-41-7	Beryllium	1.00	U		P
7440-43-9	Cadmium	4.00	U		P
7440-70-2	Calcium	488	B		P
7440-47-3	Chromium	4.80	B	E	P
7440-48-4	Cobalt	4.00	U		P
7440-50-8	Copper	7.00	U		P
7439-89-6	Iron	96.9	B	E	P
7439-92-1	Lead	2.00	U	W	F
7439-95-4	Magnesium	708	B		P
7439-96-5	Manganese	6.80	B		P
7439-97-6	Mercury	1.44			CV
7440-02-0	Nickel	7.60	B		P
7440-09-7	Potassium	1010	U		P
7782-49-2	Selenium	1.20	B	NW	F
7440-22-4	Silver	4.20	B	N	P
7440-23-5	Sodium	76400		E	P
7440-28-0	Thallium	5.00	U		F
7440-62-2	Vanadium	8.00	U		P
7440-66-6	Zinc	14.4	B		P
	Cyanide	10.00	U		C

Color Before:COLORLESS Clarity Before:CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

FORM I - IN

0000045

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SMC-SC1D-02

Lab Name:Roy F. Weston, Inc. Contract:2724-05-01

Lab Code:WESTON Case No:TRC SAS No.: SDG No.:CLP295

Matrix (soil/water):WATER Lab Sample ID:9104295014

Level (low/med): LOW Date Received:04/16/91

% Solids:

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	159	B		P
7440-36-0	Antimony	45.7	B		P
7440-38-2	Arsenic	2.00	U	NW	F
7440-39-3	Barium	56.5	B		P
7440-41-7	Beryllium	1.00	U		P
7440-43-9	Cadmium	4.00	U		P
7440-70-2	Calcium	3990	B		P
7440-47-3	Chromium	4.40	B	E	P
7440-48-4	Cobalt	4.00	U		P
7440-50-8	Copper	7.00	U		P
7439-89-6	Iron	520		E	P
7439-92-1	Lead	7.30		W	F
7439-95-4	Magnesium	1460	B		P
7439-96-5	Manganese	16.5			P
7439-97-6	Mercury	0.263			CV
7440-02-0	Nickel	7.00	U		P
7440-09-7	Potassium	1180	B		P
7782-49-2	Selenium	1.00	U	N	F
7440-22-4	Silver	4.00	U	N	P
7440-23-5	Sodium	13600		E	P
7440-28-0	Thallium	5.00	U		F
7440-62-2	Vanadium	8.00	U		P
7440-66-6	Zinc	30.2			P
	Cyanide	10.00	U		C

Color Before:COLORLESS Clarity Before:CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

FORM I - IN

0000046

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SMC-SC4S-02

Lab Name:Roy F. Weston, Inc. Contract:2724-05-01

Lab Code:WESTON Case No:TRC SAS No.: SDG No.:CLP295

Matrix (soil/water):WATER Lab Sample ID:9104295015

Level (low/med): LOW Date Received:04/16/91

% Solids:

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	145	B		P
7440-36-0	Antimony	41.2	B		P
7440-38-2	Arsenic	2.00	U	NW	F
7440-39-3	Barium	11.8	B		P
7440-41-7	Beryllium	1.00	U		P
7440-43-9	Cadmium	4.00	U		P
7440-70-2	Calcium	1480	B		P
7440-47-3	Chromium	956	U	E	P
7440-48-4	Cobalt	4.00	U		P
7440-50-8	Copper	20.0	B		P
7439-89-6	Iron	554		E	P
7439-92-1	Lead	2.20	B	W	F
7439-95-4	Magnesium	496	B		P
7439-96-5	Manganese	8.00	B		P
7439-97-6	Mercury	0.200	U		CV
7440-02-0	Nickel	7.00	U		P
7440-09-7	Potassium	4560	B		P
7782-49-2	Selenium	1.00	U	N	F
7440-22-4	Silver	4.30	B	N	P
7440-23-5	Sodium	14800		E	P
7440-28-0	Thallium	5.00	U		F
7440-62-2	Vanadium	8.00	U		P
7440-66-6	Zinc	30.6			P
	Cyanide	10.00	U		C

Color Before:COLORLESS Clarity Before:CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

FORM I - IN

0000047

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SMC-SC4D-02

Lab Name:Roy F. Weston, Inc. Contract:2724-05-01

Lab Code:WESTON Case No:TRC SAS No.: SDG No.:CLP295

Matrix (soil/water):WATER Lab Sample ID:9104295016

Level (low/med): LOW Date Received:04/16/91

% Solids:

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	389			P
7440-36-0	Antimony	272			P
7440-38-2	Arsenic	2.00	U	NW	F
7440-39-3	Barium	11.0	B		P
7440-41-7	Beryllium	1.00	U		P
7440-43-9	Cadmium	4.00	U		P
7440-70-2	Calcium	2980	B		P
7440-47-3	Chromium	12600	U	E	P
7440-48-4	Cobalt	4.10	B		P
7440-50-8	Copper	10.2	B		P
7439-89-6	Iron	2300		E	P
7439-92-1	Lead	4.10		W	F
7439-95-4	Magnesium	448	B		P
7439-96-5	Manganese	13.0	B		P
7439-97-6	Mercury	0.200	U		CV
7440-02-0	Nickel	7.00	U		P
7440-09-7	Potassium	8860			P
7782-49-2	Selenium	3.80	B	NW	F
7440-22-4	Silver	7.00	B	N	P
7440-23-5	Sodium	79200		E	P
7440-28-0	Thallium	5.00	U		F
7440-62-2	Vanadium	17.1	B		P
7440-66-6	Zinc	25.3			P
	Cyanide	10.00	U		C

Color Before:COLORLESS Clarity Before:CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

FORM I - IN

0000048

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SMC-FB1-041691

Lab Name:Roy F. Weston, Inc. Contract:2724-05-01

Lab Code:WESTON Case No:TRC SAS No.: SDG No.:CLP295

Matrix (soil/water):WATER Lab Sample ID:9104295017

Level (low/med): LOW Date Received:04/16/91

% Solids:

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	77.0	U		P
7440-36-0	Antimony	19.0	U		P
7440-38-2	Arsenic	2.00	U	NW	F
7440-39-3	Barium	5.00	U		P
7440-41-7	Beryllium	1.00	U		P
7440-43-9	Cadmium	4.00	U		P
7440-70-2	Calcium	184	B		P
7440-47-3	Chromium	6.10	B	E	P
7440-48-4	Cobalt	4.00	U		P
7440-50-8	Copper	7.00	U		P
7439-89-6	Iron	53.5	B	E	P
7439-92-1	Lead	2.00	U		F
7439-95-4	Magnesium	84.0	U		P
7439-96-5	Manganese	2.00	U		P
7439-97-6	Mercury	0.200	U		CV
7440-02-0	Nickel	7.00	U		P
7440-09-7	Potassium	1010	U		P
7782-49-2	Selenium	1.00	U	N	F
7440-22-4	Silver	4.60	B	N	P
7440-23-5	Sodium	380	B	E	P
7440-28-0	Thallium	5.00	U		F
7440-62-2	Vanadium	8.00	U		P
7440-66-6	Zinc	12.4	B		P
	Cyanide	10.00	U		C

Color Before:COLORLESS Clarity Before:CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

FORM I - IN

ROY F. WESTON, INC.
Lionville Laboratory

CLIENT: TRC/SHIELDALLOY **SAMPLES RECEIVED:** 04-18-91
RFW #: 9104L316
W.O. #: 2724-05-01

INORGANIC NARRATIVE

The following is a summary of the quality control results and a description of any problems encountered during the analysis of this batch of samples:

1. All sample holding times as required by 40CFR136 were met for water samples.

2. All preparation blank results were below the required detection limit.

3. All laboratory control standards (blank spikes) were within the control limits of 80-120%. All %RPD were within the 20% guidance limit.

4. All calibration verification checks are within the required control limits of 90-110%. Calibration verification is performed using independent standards.

5. Matrix spike recoveries are summarized on the Inorganics Accuracy Report contained within this document. All recoveries were within the 75-125% guidance limit. All %RPD were within the 20% guidance limit.

6. Replicate results are summarized on the Inorganic Precision report contained within this document. Results for sulfate were outside the 20% RPD guidance limit.

7. The analytical methods applied by the laboratory, unless otherwise requested, for all inorganic analyses are derived from the USEPA Method for Chemical Analysis of Water and Wastes (USEPA 600/4-79-020), and Standard Methods for the Examination of Water and Wastewater 16 ed. Methods for the analysis of solid samples are derived from Test Methods for Evaluating Solid Waste (USEPA SW846).

Jack R. Tuschall, Ph.D.
Laboratory Manager
Lionville Analytical Laboratory

6 17 9
Date

pas.21\i4-316

ROY F. WESTON, INC.
GLOSSARY OF TERMS - INORGANIC REPORTS

DATA QUALIFIERS

U - Indicates that the parameter was not detected at or above the reported limit. The associated numerical value is the sample detection limit.

* - Indicates that the original sample result is greater than 4x the spike amount added. The USEPA-CLP has determined that spike results on samples where this occurs may be unreliable and therefore, the control limits are not applicable.

ABBREVIATIONS

MB - Method or preparation blank
MS - Matrix Spike
MSD - Matrix Spike Duplicate.
REP - Sample Replicate.
LC - Indicates a method LCS or Blank Spike.
NC - Not calculable, result below the detection limit.

A suffix of -R and -S following these codes indicates a replicate and spike analysis respectively.

ANALYTICAL METAL METHODS

As :	EPA 206.2	Se :	EPA 270.2
Pb :	EPA 239.2	ICP Scan :	EPA 200.7
Hg :	EPA 245.1	All Others :	EPA 200.7
Tl :	EPA 279.2	EP Leachates (except Hg) :	200.7

The analytical methods applied by the laboratory for the determination of drinking water is 5.2.1.

NOTES

The laboratory prepares a matrix spike at one per 20 frequency for TCLP samples. The Federal Register recommends that all matrix spikes be prepared at greater than 50% of the indigenous analyte concentration. A matrix duplicate is also prepared.

The USEPA-CLP has dropped control limits for silver and antimony due to documented difficulties in obtaining reliable results. WESTON Analytics, however, monitors it's recoveries for unusal occurrences of silver and/or antimony quantification.

Holding times for soil samples have not been promulgated by the USEPA.

For solid samples, all results are reported on a dry weight basis.

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 06/17/91

CLIENT: TRC/SHIELDALLOY
WORK ORDER: 2724-05-01-0000

WESTON BATCH #: 9104L316

SAMPLE	SITE ID	ANALYTE	RESULT	UNITS	REPORTING LIMIT
-001	SMC-SC14S-02	Cyanide, Total	10.0 u	UG/L	10.0
		Chromium VI	0.089	MG/L	0.020
		Sulfate	20.7	MG/L	5.0
-002	SMC-SC27-02	Cyanide, Total	10.0 u	UG/L	10.0
		Chromium VI	0.074	MG/L	0.020
		Sulfate	20.1	MG/L	5.0
-003	SMC-SC15S-02	Cyanide, Total	10.0 u	UG/L	10.0
		Chromium VI	0.020u	MG/L	0.020
		Sulfate	67.0	MG/L	10.0
-004	SMC-SC16S-02	Cyanide, Total	10.0 u	UG/L	10.0
		Chromium VI	0.020u	MG/L	0.020
		Sulfate	51.5	MG/L	10.0
05	SMC-SC20S-02	Cyanide, Total	10.0 u	UG/L	10.0
		Chromium VI	0.020u	MG/L	0.020
		Sulfate	64.9	MG/L	10.0
-006	SMC-SC22S-02	Cyanide, Total	10.0 u	UG/L	10.0
		Chromium VI	0.020u	MG/L	0.020
		Sulfate	74.6	MG/L	10.0
-007	SMC-SC22D-02	Cyanide, Total	38.1	UG/L	10.0
		Chromium VI	69.0	MG/L	1.0
		Sulfate	13.3	MG/L	5.0
-008	SMC-SC17S-02	Cyanide, Total	10.0 u	UG/L	10.0
		Chromium VI	0.020u	MG/L	0.020
		Sulfate	24.7	MG/L	5.0
-009	SMC-SC17D-02	Cyanide, Total	10.0 u	UG/L	10.0
		Chromium VI	0.48	MG/L	0.020
		Sulfate	15.7	MG/L	5.0
-010	SMC-SC23S-02	Cyanide, Total	10.0 u	UG/L	10.0
		Chromium VI	0.020u	MG/L	0.020
		Sulfate	194	MG/L	50.0

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 06/17/91

CLIENT: TRC/SHIELDALLOY
WORK ORDER: 2724-05-01-0000

WESTON BATCH #: 9104L316

SAMPLE	SITE ID	ANALYTE	RESULT	UNITS	REPORTING LIMIT
-014	SMC-SC19S-02	Cyanide, Total	10.0 u	UG/L	10.0
		Chromium VI	0.020u	MG/L	0.020
		Sulfate	31.2	MG/L	5.0
-015	SMC-SC26S-02	Cyanide, Total	10.0 u	UG/L	10.0
		Chromium VI	0.020u	MG/L	0.020
		Sulfate	30.9	MG/L	5.0
-016	SMC-SC19D-02	Cyanide, Total	10.0 u	UG/L	10.0
		Chromium VI	0.020u	MG/L	0.020
		Sulfate	201	MG/L	50.0
-017	SMC-SC21S-02	Cyanide, Total	10.0 u	UG/L	10.0
		Chromium VI	0.020u	MG/L	0.020
		Sulfate	19.3	MG/L	5.0
18	SMC-SC21D-02	Cyanide, Total	10.0 u	UG/L	10.0
		Chromium VI	0.020u	MG/L	0.020
		Sulfate	5.0 u	MG/L	5.0
-019	SMC-SC11S-02	Cyanide, Total	10.0 u	UG/L	10.0
		Chromium VI	0.11	MG/L	0.020
		Sulfate	20.0	MG/L	5.0
-020	SMC-SC12S-02	Cyanide, Total	10.0 u	UG/L	10.0
		Chromium VI	2.1	MG/L	0.040
		Sulfate	133	MG/L	50.0
-021	SMC-SC12D-02	Cyanide, Total	10.0 u	UG/L	10.0
		Chromium VI	0.020u	MG/L	0.020
		Sulfate	7.1	MG/L	5.0
-022	SMC-SC13S-02	Cyanide, Total	12.0	UG/L	10.0
		Chromium VI	0.020u	MG/L	0.020
		Sulfate	1990	MG/L	500
-023	SMC-SC13D-02	Cyanide, Total	10.0 u	UG/L	10.0
		Chromium VI	0.020u	MG/L	0.020
		Sulfate	6.4	MG/L	5.0

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 06/17/91

CLIENT: TRC/SHIELDALLOY
WORK ORDER: 2724-05-01-0000

WESTON BATCH #: 9104L316

SAMPLE	SITE ID	ANALYTE	RESULT	UNITS	REPORTING LIMIT
-024	SMC-SC5S-02	Cyanide, Total	10.0 u	UG/L	10.0
		Chromium VI	0.020u	MG/L	0.020
		Sulfate	11.8	MG/L	5.0
-025	SMC-SC5D-02	Cyanide, Total	10.0 u	UG/L	10.0
		Chromium VI	0.020u	MG/L	0.020
		Sulfate	47.6	MG/L	10.0
-026	SMC-SC18S-02	Cyanide, Total	10.0 u	UG/L	10.0
		Chromium VI	0.020u	MG/L	0.020
		Sulfate	199	MG/L	50.0
-027	SMC-SC18D-02	Cyanide, Total	10.0 u	UG/L	10.0
		Chromium VI	0.020u	MG/L	0.020
		Sulfate	29.7	MG/L	5.0
028	SMC-FB2-041791	Cyanide, Total	10.0 u	UG/L	10.0
		Chromium VI	0.020u	MG/L	0.020
		Sulfate	5.0 u	MG/L	5.0

WESTON

Roy F. Weston, INC.
Lionville Laboratory

CLIENT:TRC/SHIELD ALLOY **SAMPLES RECEIVED:**4/18/91
RFW #:9104L316 METALS
W.O.#:2724-05-01

METALS NARRATIVE

The set of samples consisted of (25) water samples collected on 4/17/91.

The samples were analyzed according to criteria set forth in CLP SOW 7/87.

The following is a summary of the QC results accompanying these sample results and a description of any problems encountered during their analysis:

1. ICVs, CCVs, and LCSs stock standards were purchased from Inorganic Ventures Laboratory.

2. All ICV and CCV values were within control limits.

3. All ICB and CCB values were within control limits.

4. All preparation blank values were within control limits.

5. All LCS results were within the 80-120% control limits.

Note: The USEPA has dropped control limits for antimony and silver due to documented difficulties in obtaining reliable results. WESTON Analytics has adopted the same policy.

6. All matrix spike recoveries were within the 75-125% control limits with the exception of Al, As, Cr, Mn, Se and Ag. All corresponding samples were flagged with an "N" according to CLP protocol.

7. All duplicate analyses were within the 20% RPD control limits with the exception of Al and Zn. All corresponding samples were flagged with an "*" according to CLP protocol.

WESTON

8. Pb, As and Se sample results were calculated by the method of standard addition (MSA). All corresponding samples were flagged with an "S" according to CLP protocol.

Jack R. Tuschall, Ph.D.
Laboratory Manager
WESTON Analytical Laboratories

Date

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 06/03/91

CLIENT: TRC/SHIELDALLOY
WORK ORDER: 2724-05-01-0000

WESTON BATCH #: 9104L316

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-001	SMC-SC14S-02	Silver, Total	10.0	u	UG/L	10.0
		Aluminum, Total	1330		UG/L	200
		Arsenic, Total	10.0	u	UG/L	10.0
		Boron, Total	2240		UG/L	100
		Barium, Total	200	u	UG/L	200
		Beryllium, Total	5.0	u	UG/L	5.0
		Calcium, Total	10200		UG/L	5000
		Cadmium, Total	5.0	u	UG/L	5.0
		Cobalt, Total	50.0	u	UG/L	50.0
		Chromium, Total	91.7		UG/L	10.0
		Copper, Total	25.0	u	UG/L	25.0
		Iron, Total	4170		UG/L	100
		Mercury, Total	0.20	u	UG/L	0.20
		Potassium, Total	5140		UG/L	5000
		Magnesium, Total	6420		UG/L	5000
		Manganese, Total	31.1		UG/L	15.0
		Sodium, Total	11300		UG/L	5000
		Niobium, Total	200	u	UG/L	200
		Nickel, Total	40.0	u	UG/L	40.0
		Lead, Total	3.0	u	UG/L	3.0
		Antimony, Total	60.0	u	UG/L	60.0
		Selenium, Total	5.0	u	UG/L	5.0
		Strontium, Total	100	u	UG/L	100
		Titanium, Total	100	u	UG/L	100
		Thallium, Total	10.0	u	UG/L	10.0
		Vanadium, Total	50.0	u	UG/L	50.0
		Zinc, Total	36.0		UG/L	20.0
		Zirconium, Total	200	u	UG/L	200

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 06/03/91

CLIENT: TRC/SHIELDALLOY
WORK ORDER: 2724-05-01-0000

WESTON BATCH #: 9104L316

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-002	SMC-SC27-02	Silver, Total	10.0	u	UG/L	10.0
		Aluminum, Total	1400		UG/L	200
		Arsenic, Total	10.0	u	UG/L	10.0
		Barium, Total	200	u	UG/L	200
		Beryllium, Total	5.0	u	UG/L	5.0
		Calcium, Total	9570		UG/L	5000
		Cadmium, Total	5.0	u	UG/L	5.0
		Cobalt, Total	50.0	u	UG/L	50.0
		Chromium, Total	85.8		UG/L	10.0
		Copper, Total	25.0	u	UG/L	25.0
		Iron, Total	4590		UG/L	100
		Mercury, Total	0.20	u	UG/L	0.20
		Potassium, Total	6080		UG/L	5000
		Magnesium, Total	6350		UG/L	5000
		Manganese, Total	31.7		UG/L	15.0
		Sodium, Total	11000		UG/L	5000
		Nickel, Total	40.0	u	UG/L	40.0
		Lead, Total	3.0	u	UG/L	3.0
		Antimony, Total	60.0	u	UG/L	60.0
		Selenium, Total	5.0	u	UG/L	5.0
		Thallium, Total	10.0	u	UG/L	10.0
		Vanadium, Total	50.0	u	UG/L	50.0
		Zinc, Total	29.5		UG/L	20.0

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 06/03/91

CLIENT: TRC/SHIELDALLOY
WORK ORDER: 2724-05-01-0000

WESTON BATCH #: 9104L316

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-003	SMC-SC15S-02	Silver, Total	10.0	u	UG/L	10.0
		Aluminum, Total	2990		UG/L	200
		Arsenic, Total	10.0	u	UG/L	10.0
		Barium, Total	200	u	UG/L	200
		Beryllium, Total	5.0	u	UG/L	5.0
		Calcium, Total	18900		UG/L	5000
		Cadmium, Total	5.0	u	UG/L	5.0
		Cobalt, Total	50.0	u	UG/L	50.0
		Chromium, Total	10.0	u	UG/L	10.0
		Copper, Total	25.0	u	UG/L	25.0
		Iron, Total	2540		UG/L	100
		Mercury, Total	0.20	u	UG/L	0.20
		Potassium, Total	5000	u	UG/L	5000
		Magnesium, Total	5000	u	UG/L	5000
		Manganese, Total	512		UG/L	15.0
		Sodium, Total	9730		UG/L	5000
		Nickel, Total	40.0	u	UG/L	40.0
		Lead, Total	3.0	u	UG/L	3.0
		Antimony, Total	60.0	u	UG/L	60.0
		Selenium, Total	50.0	u	UG/L	50.0
		Thallium, Total	10.0	u	UG/L	10.0
		Vanadium, Total	50.0	u	UG/L	50.0
		Zinc, Total	83.5		UG/L	20.0

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 06/03/91

CLIENT: TRC/SHIELDALLOY
WORK ORDER: 2724-05-01-0000

WESTON BATCH #: 9104L316

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-004	SMC-SC16S-02	Silver, Total	10.0	u	UG/L	10.0
		Aluminum, Total	1470		UG/L	200
		Arsenic, Total	10.0	u	UG/L	10.0
		Barium, Total	200	u	UG/L	200
		Beryllium, Total	5.0	u	UG/L	5.0
		Calcium, Total	34500		UG/L	5000
		Cadmium, Total	5.0	u	UG/L	5.0
		Cobalt, Total	50.0	u	UG/L	50.0
		Chromium, Total	10.0	u	UG/L	10.0
		Copper, Total	25.0	u	UG/L	25.0
		Iron, Total	9340		UG/L	100
		Mercury, Total	0.20	u	UG/L	0.20
		Potassium, Total	5000	u	UG/L	5000
		Magnesium, Total	7720		UG/L	5000
		Manganese, Total	79.5		UG/L	15.0
		Sodium, Total	6790		UG/L	5000
		Nickel, Total	40.0	u	UG/L	40.0
		Lead, Total	3.0	u	UG/L	3.0
		Antimony, Total	60.0	u	UG/L	60.0
		Selenium, Total	50.0	u	UG/L	50.0
		Thallium, Total	10.0	u	UG/L	10.0
		Vanadium, Total	50.0	u	UG/L	50.0
		Zinc, Total	35.4		UG/L	20.0

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 06/03/91

CLIENT: TRC/SHIELDALLOY
WORK ORDER: 2724-05-01-0000

WESTON BATCH #: 9104L316

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-005	SMC-SC20S-02	Silver, Total	10.0	u	UG/L	10.0
		Aluminum, Total	827		UG/L	200
		Arsenic, Total	10.0	u	UG/L	10.0
		Boron, Total	621		UG/L	100
		Barium, Total	200	u	UG/L	200
		Beryllium, Total	5.0	u	UG/L	5.0
		Calcium, Total	17100		UG/L	5000
		Cadmium, Total	5.0	u	UG/L	5.0
		Cobalt, Total	50.0	u	UG/L	50.0
		Chromium, Total	224		UG/L	10.0
		Copper, Total	25.0	u	UG/L	25.0
		Iron, Total	7900		UG/L	100
		Mercury, Total	0.20	u	UG/L	0.20
		Potassium, Total	17300		UG/L	5000
		Magnesium, Total	10400		UG/L	5000
		Manganese, Total	628		UG/L	15.0
		Sodium, Total	43800		UG/L	5000
		Niobium, Total	200	u	UG/L	200
		Nickel, Total	40.0	u	UG/L	40.0
		Lead, Total	3.0	u	UG/L	3.0
		Antimony, Total	60.0	u	UG/L	60.0
		Selenium, Total	5.0	u	UG/L	5.0
		Strontium, Total	118		UG/L	100
		Titanium, Total	100	u	UG/L	100
		Thallium, Total	10.0	u	UG/L	10.0
		Vanadium, Total	50.0	u	UG/L	50.0
		Zinc, Total	47.3		UG/L	20.0
		Zirconium, Total	200	u	UG/L	200

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 06/03/91

CLIENT: TRC/SHIELDALLOY
WORK ORDER: 2724-05-01-0000

WESTON BATCH #: 9104L316

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-006	SMC-SC22S-02	Silver, Total	10.0	u	UG/L	10.0
		Aluminum, Total	1350		UG/L	200
		Arsenic, Total	10.0	u	UG/L	10.0
		Boron, Total	294		UG/L	100
		Barium, Total	200	u	UG/L	200
		Beryllium, Total	5.0	u	UG/L	5.0
		Calcium, Total	14100		UG/L	5000
		Cadmium, Total	5.0	u	UG/L	5.0
		Cobalt, Total	50.0	u	UG/L	50.0
		Chromium, Total	17.8		UG/L	10.0
		Copper, Total	25.0	u	UG/L	25.0
		Iron, Total	2990		UG/L	100
		Mercury, Total	0.20	u	UG/L	0.20
		Potassium, Total	47300		UG/L	5000
		Magnesium, Total	25300		UG/L	5000
		Manganese, Total	132		UG/L	15.0
		Sodium, Total	63100		UG/L	5000
		Niobium, Total	200	u	UG/L	200
		Nickel, Total	40.0	u	UG/L	40.0
		Lead, Total	3.0	u	UG/L	3.0
		Antimony, Total	60.0	u	UG/L	60.0
		Selenium, Total	5.0	u	UG/L	5.0
		Strontium, Total	100	u	UG/L	100
		Titanium, Total	100	u	UG/L	100
		Thallium, Total	10.0	u	UG/L	10.0
		Vanadium, Total	50.0	u	UG/L	50.0
		Zinc, Total	21.4		UG/L	20.0
		Zirconium, Total	200	u	UG/L	200

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 06/03/91

CLIENT: TRC/SHIELDALLOY
WORK ORDER: 2724-05-01-0000

WESTON BATCH #: 9104L316

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-007	SMC-SC22D-02	Silver, Total	10.0	u	UG/L	10.0
		Aluminum, Total	97800		UG/L	200
		Arsenic, Total	314		UG/L	100
		Boron, Total	100	u	UG/L	100
		Barium, Total	507		UG/L	200
		Beryllium, Total	8.2		UG/L	5.0
		Calcium, Total	5000	u	UG/L	5000
		Cadmium, Total	5.0	u	UG/L	5.0
		Cobalt, Total	50.0	u	UG/L	50.0
		Chromium, Total	60200		UG/L	100
		Copper, Total	34.1		UG/L	25.0
		Iron, Total	78400		UG/L	100
		Mercury, Total	0.79		UG/L	0.20
		Potassium, Total	9550		UG/L	5000
		Magnesium, Total	5000	u	UG/L	5000
		Manganese, Total	59.0		UG/L	15.0
		Sodium, Total	471000		UG/L	5000
		Niobium, Total	200	u	UG/L	200
		Nickel, Total	40.0	u	UG/L	40.0
		Lead, Total	24.2		UG/L	6.0
		Antimony, Total	1340		UG/L	60.0
		Selenium, Total	49.5		UG/L	5.0
		Strontium, Total	294		UG/L	100
		Titanium, Total	325		UG/L	100
		Thallium, Total	10.0	u	UG/L	10.0
		Vanadium, Total	1300		UG/L	50.0
		Zinc, Total	55.9		UG/L	20.0
		Zirconium, Total	200	u	UG/L	200

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 06/03/91

CLIENT: TRC/SHIELDALLOY
WORK ORDER: 2724-05-01-0000

WESTON BATCH #: 9104L316

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-008	SMC-SC17S-02	Silver, Total	10.0	u	UG/L	10.0
		Aluminum, Total	13200		UG/L	200
		Arsenic, Total	10.0	u	UG/L	10.0
		Barium, Total	200	u	UG/L	200
		Beryllium, Total	5.0	u	UG/L	5.0
		Calcium, Total	13100		UG/L	5000
		Cadmium, Total	5.0	u	UG/L	5.0
		Cobalt, Total	50.0	u	UG/L	50.0
		Chromium, Total	18.2		UG/L	10.0
		Copper, Total	25.0	u	UG/L	25.0
		Iron, Total	57700		UG/L	100
		Mercury, Total	0.34		UG/L	0.20
		Potassium, Total	5000	u	UG/L	5000
		Magnesium, Total	5000	u	UG/L	5000
		Manganese, Total	175		UG/L	15.0
		Sodium, Total	19700		UG/L	5000
		Nickel, Total	40.0	u	UG/L	40.0
		Lead, Total	6.3		UG/L	3.0
		Antimony, Total	60.0	u	UG/L	60.0
		Selenium, Total	5.0	u	UG/L	5.0
		Thallium, Total	10.0	u	UG/L	10.0
		Vanadium, Total	50.0	u	UG/L	50.0
		Zinc, Total	45.8		UG/L	20.0

0000017

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 06/03/91

CLIENT: TRC/SHIELDALLOY
WORK ORDER: 2724-05-01-0000

WESTON BATCH #: 9104L316

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-009	SMC-SC17D-02	Silver, Total	10.0	u	UG/L	10.0
		Aluminum, Total	2140		UG/L	200
		Arsenic, Total	10.0	u	UG/L	10.0
		Barium, Total	200	u	UG/L	200
		Beryllium, Total	5.0	u	UG/L	5.0
		Calcium, Total	5000	u	UG/L	5000
		Cadmium, Total	5.0	u	UG/L	5.0
		Cobalt, Total	50.0	u	UG/L	50.0
		Chromium, Total	485		UG/L	10.0
		Copper, Total	25.0	u	UG/L	25.0
		Iron, Total	3490		UG/L	100
		Mercury, Total	0.20	u	UG/L	0.20
		Potassium, Total	5000	u	UG/L	5000
		Magnesium, Total	5000	u	UG/L	5000
		Manganese, Total	39.5		UG/L	15.0
		Sodium, Total	26100		UG/L	5000
		Nickel, Total	40.0	u	UG/L	40.0
		Lead, Total	5.7		UG/L	3.0
		Antimony, Total	60.0	u	UG/L	60.0
		Selenium, Total	5.0	u	UG/L	5.0
		Thallium, Total	10.0	u	UG/L	10.0
		Vanadium, Total	50.0	u	UG/L	50.0
		Zinc, Total	30.8		UG/L	20.0

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 06/03/91

CLIENT: TRC/SHIELDALLOY
WORK ORDER: 2724-05-01-0000

WESTON BATCH #: 9104L316

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-010	SMC-SC23S-02	Silver, Total	10.0	u	UG/L	10.0
		Aluminum, Total	24300		UG/L	200
		Arsenic, Total	10.0	u	UG/L	10.0
		Barium, Total	200	u	UG/L	200
		Beryllium, Total	5.0	u	UG/L	5.0
		Calcium, Total	20900		UG/L	5000
		Cadmium, Total	5.0	u	UG/L	5.0
		Cobalt, Total	50.0	u	UG/L	50.0
		Chromium, Total	295		UG/L	10.0
		Copper, Total	25.0	u	UG/L	25.0
		Iron, Total	26400		UG/L	100
		Mercury, Total	0.20	u	UG/L	0.20
		Potassium, Total	6590		UG/L	5000
		Magnesium, Total	7460		UG/L	5000
		Manganese, Total	871		UG/L	15.0
		Sodium, Total	68100		UG/L	5000
		Nickel, Total	40.0	u	UG/L	40.0
		Lead, Total	3.0	u	UG/L	3.0
		Antimony, Total	60.0	u	UG/L	60.0
		Selenium, Total	50.0	u	UG/L	50.0
		Thallium, Total	10.0	u	UG/L	10.0
		Vanadium, Total	50.0	u	UG/L	50.0
		Zinc, Total	249		UG/L	20.0

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 06/03/91

CLIENT: TRC/SHIELDALLOY
WORK ORDER: 2724-05-01-0000

WESTON BATCH #: 9104L316

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-014	SMC-SC19S-02	Silver, Total	10.0	u	UG/L	10.0
		Aluminum, Total	786		UG/L	200
		Arsenic, Total	10.0	u	UG/L	10.0
		Barium, Total	200	u	UG/L	200
		Beryllium, Total	5.0	u	UG/L	5.0
		Calcium, Total	13700		UG/L	5000
		Cadmium, Total	5.0	u	UG/L	5.0
		Cobalt, Total	50.0	u	UG/L	50.0
		Chromium, Total	10.0	u	UG/L	10.0
		Copper, Total	25.0	u	UG/L	25.0
		Iron, Total	3290		UG/L	100
		Mercury, Total	0.20	u	UG/L	0.20
		Potassium, Total	5000	u	UG/L	5000
		Magnesium, Total	5000	u	UG/L	5000
		Manganese, Total	53.9		UG/L	15.0
		Sodium, Total	15100		UG/L	5000
		Nickel, Total	40.0	u	UG/L	40.0
		Lead, Total	3.0	u	UG/L	3.0
		Antimony, Total	60.0	u	UG/L	60.0
		Selenium, Total	5.0	u	UG/L	5.0
		Thallium, Total	10.0	u	UG/L	10.0
		Vanadium, Total	50.0	u	UG/L	50.0
		Zinc, Total	20.2		UG/L	20.0

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 06/03/91

CLIENT: TRC/SHIELDALLOY
WORK ORDER: 2724-05-01-0000

WESTON BATCH #: 9104L316

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-015	SMC-SC26S-02	Silver, Total	10.0	u	UG/L	10.0
		Aluminum, Total	494		UG/L	200
		Arsenic, Total	10.0	u	UG/L	10.0
		Barium, Total	200	u	UG/L	200
		Beryllium, Total	5.0	u	UG/L	5.0
		Calcium, Total	12500		UG/L	5000
		Cadmium, Total	5.0	u	UG/L	5.0
		Cobalt, Total	50.0	u	UG/L	50.0
		Chromium, Total	10.0	u	UG/L	10.0
		Copper, Total	25.0	u	UG/L	25.0
		Iron, Total	1070		UG/L	100
		Mercury, Total	0.20	u	UG/L	0.20
		Potassium, Total	5000	u	UG/L	5000
		Magnesium, Total	5000	u	UG/L	5000
		Manganese, Total	47.6		UG/L	15.0
		Sodium, Total	14200		UG/L	5000
		Nickel, Total	40.0	u	UG/L	40.0
		Lead, Total	3.0	u	UG/L	3.0
		Antimony, Total	60.0	u	UG/L	60.0
		Selenium, Total	5.0	u	UG/L	5.0
		Thallium, Total	10.0	u	UG/L	10.0
		Vanadium, Total	50.0	u	UG/L	50.0
		Zinc, Total	50.9		UG/L	20.0

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 06/03/91

CLIENT: TRC/SHIELDALLOY
WORK ORDER: 2724-05-01-0000

WESTON BATCH #: 9104L316

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-016	SMC-SC19D-02	Silver, Total	10.0	u	UG/L	10.0
		Aluminum, Total	415		UG/L	200
		Arsenic, Total	10.0	u	UG/L	10.0
		Barium, Total	200	u	UG/L	200
		Beryllium, Total	5.0	u	UG/L	5.0
		Calcium, Total	5620		UG/L	5000
		Cadmium, Total	5.0	u	UG/L	5.0
		Cobalt, Total	50.0	u	UG/L	50.0
		Chromium, Total	10.0	u	UG/L	10.0
		Copper, Total	25.0	u	UG/L	25.0
		Iron, Total	867		UG/L	100
		Mercury, Total	0.20	u	UG/L	0.20
		Potassium, Total	5000	u	UG/L	5000
		Magnesium, Total	5000	u	UG/L	5000
		Manganese, Total	39.3		UG/L	15.0
		Sodium, Total	112000		UG/L	5000
		Nickel, Total	40.0	u	UG/L	40.0
		Lead, Total	3.0	u	UG/L	3.0
		Antimony, Total	60.0	u	UG/L	60.0
		Selenium, Total	5.0	u	UG/L	5.0
		Thallium, Total	10.0	u	UG/L	10.0
		Vanadium, Total	50.0	u	UG/L	50.0
		Zinc, Total	26.3		UG/L	20.0

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 06/03/91

CLIENT: TRC/SHIELDALLOY
WORK ORDER: 2724-05-01-0000

WESTON BATCH #: 9104L316

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-017	SMC-SC21S-02	Silver, Total	10.0	u	UG/L	10.0
		Aluminum, Total	719		UG/L	200
		Arsenic, Total	10.0	u	UG/L	10.0
		Barium, Total	200	u	UG/L	200
		Beryllium, Total	5.0	u	UG/L	5.0
		Calcium, Total	6190		UG/L	5000
		Cadmium, Total	5.0	u	UG/L	5.0
		Cobalt, Total	50.0	u	UG/L	50.0
		Chromium, Total	13.0		UG/L	10.0
		Copper, Total	25.0	u	UG/L	25.0
		Iron, Total	3630		UG/L	100
		Mercury, Total	0.20	u	UG/L	0.20
		Potassium, Total	5000	u	UG/L	5000
		Magnesium, Total	5000	u	UG/L	5000
		Manganese, Total	19.3		UG/L	15.0
		Sodium, Total	5000	u	UG/L	5000
		Nickel, Total	40.0	u	UG/L	40.0
		Lead, Total	3.0	u	UG/L	3.0
		Antimony, Total	60.0	u	UG/L	60.0
		Selenium, Total	5.0	u	UG/L	5.0
		Thallium, Total	10.0	u	UG/L	10.0
		Vanadium, Total	50.0	u	UG/L	50.0
		Zinc, Total	24.8		UG/L	20.0

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 06/03/91

CLIENT: TRC/SHIELDALLOY
WORK ORDER: 2724-05-01-0000

WESTON BATCH #: 9104L316

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-018	SMC-SC21D-02	Silver, Total	10.0	u	UG/L	10.0
		Aluminum, Total	200	u	UG/L	200
		Arsenic, Total	10.0	u	UG/L	10.0
		Barium, Total	200	u	UG/L	200
		Beryllium, Total	5.0	u	UG/L	5.0
		Calcium, Total	5000	u	UG/L	5000
		Cadmium, Total	5.0	u	UG/L	5.0
		Cobalt, Total	50.0	u	UG/L	50.0
		Chromium, Total	10.0	u	UG/L	10.0
		Copper, Total	25.0	u	UG/L	25.0
		Iron, Total	158		UG/L	100
		Mercury, Total	0.20	u	UG/L	0.20
		Potassium, Total	5000	u	UG/L	5000
		Magnesium, Total	5000	u	UG/L	5000
		Manganese, Total	42.2		UG/L	15.0
		Sodium, Total	5780		UG/L	5000
		Nickel, Total	40.0	u	UG/L	40.0
		Lead, Total	3.0	u	UG/L	3.0
		Antimony, Total	60.0	u	UG/L	60.0
		Selenium, Total	5.0	u	UG/L	5.0
		Thallium, Total	10.0	u	UG/L	10.0
		Vanadium, Total	50.0	u	UG/L	50.0
		Zinc, Total	20.0	u	UG/L	20.0

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 06/03/91

CLIENT: TRC/SHIELDALLOY
WORK ORDER: 2724-05-01-0000

WESTON BATCH #: 9104L316

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-019	SMC-SC11S-02	Silver, Total	10.0	u	UG/L	10.0
		Aluminum, Total	22700		UG/L	200
		Arsenic, Total	10.0	u	UG/L	10.0
		Barium, Total	200	u	UG/L	200
		Beryllium, Total	5.0	u	UG/L	5.0
		Calcium, Total	5000	u	UG/L	5000
		Cadmium, Total	5.0	u	UG/L	5.0
		Cobalt, Total	50.0	u	UG/L	50.0
		Chromium, Total	108		UG/L	10.0
		Copper, Total	25.0	u	UG/L	25.0
		Iron, Total	982		UG/L	100
		Mercury, Total	0.20	u	UG/L	0.20
		Potassium, Total	5000	u	UG/L	5000
		Magnesium, Total	9230		UG/L	5000
		Manganese, Total	15.0	u	UG/L	15.0
		Sodium, Total	9450		UG/L	5000
		Nickel, Total	40.0	u	UG/L	40.0
		Lead, Total	3.0	u	UG/L	3.0
		Antimony, Total	60.0	u	UG/L	60.0
		Selenium, Total	5.0	u	UG/L	5.0
		Thallium, Total	10.0	u	UG/L	10.0
		Vanadium, Total	176		UG/L	50.0
		Zinc, Total	34.2		UG/L	20.0

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 06/03/91

CLIENT: TRC/SHIELDALLOY
WORK ORDER: 2724-05-01-0000

WESTON BATCH #: 9104L316

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-020	SMC-SC12S-02	Silver, Total	10.0	u	UG/L	10.0
		Aluminum, Total	622		UG/L	200
		Arsenic, Total	10.0	u	UG/L	10.0
		Boron, Total	17600		UG/L	100
		Barium, Total	200	u	UG/L	200
		Beryllium, Total	5.0	u	UG/L	5.0
		Calcium, Total	5000	u	UG/L	5000
		Cadmium, Total	5.0	u	UG/L	5.0
		Cobalt, Total	50.0	u	UG/L	50.0
		Chromium, Total	2360		UG/L	10.0
		Copper, Total	25.0	u	UG/L	25.0
		Iron, Total	2300		UG/L	100
		Mercury, Total	0.20	u	UG/L	0.20
		Potassium, Total	180000		UG/L	5000
		Magnesium, Total	7610		UG/L	5000
		Manganese, Total	16.4		UG/L	15.0
		Sodium, Total	413000		UG/L	5000
		Niobium, Total	200	u	UG/L	200
		Nickel, Total	40.0	u	UG/L	40.0
		Lead, Total	3.0	u	UG/L	3.0
		Antimony, Total	82.3		UG/L	60.0
		Selenium, Total	5.0	u	UG/L	5.0
		Strontium, Total	100	u	UG/L	100
		Titanium, Total	100	u	UG/L	100
		Thallium, Total	10.0	u	UG/L	10.0
		Vanadium, Total	50.0	u	UG/L	50.0
		Zinc, Total	24.1		UG/L	20.0
		Zirconium, Total	200	u	UG/L	200

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 06/03/91

CLIENT: TRC/SHIELDALLOY
WORK ORDER: 2724-05-01-0000

WESTON BATCH #: 9104L316

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-021	SMC-SC12D-02	Silver, Total	10.0	u	UG/L	10.0
		Aluminum, Total	200	u	UG/L	200
		Arsenic, Total	10.0	u	UG/L	10.0
		Boron, Total	154		UG/L	100
		Barium, Total	200	u	UG/L	200
		Beryllium, Total	5.0	u	UG/L	5.0
		Calcium, Total	5000	u	UG/L	5000
		Cadmium, Total	5.0	u	UG/L	5.0
		Cobalt, Total	50.0	u	UG/L	50.0
		Chromium, Total	10.0	u	UG/L	10.0
		Copper, Total	25.0	u	UG/L	25.0
		Iron, Total	233		UG/L	100
		Mercury, Total	0.20	u	UG/L	0.20
		Potassium, Total	5000	u	UG/L	5000
		Magnesium, Total	5000	u	UG/L	5000
		Manganese, Total	25.0		UG/L	15.0
		Sodium, Total	5000	u	UG/L	5000
		Niobium, Total	200	u	UG/L	200
		Nickel, Total	40.0	u	UG/L	40.0
		Lead, Total	3.0	u	UG/L	3.0
		Antimony, Total	60.0	u	UG/L	60.0
		Selenium, Total	5.0	u	UG/L	5.0
		Strontium, Total	100	u	UG/L	100
		Titanium, Total	100	u	UG/L	100
		Thallium, Total	10.0	u	UG/L	10.0
		Vanadium, Total	50.0	u	UG/L	50.0
		Zinc, Total	22.3		UG/L	20.0
		Zirconium, Total	200	u	UG/L	200

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 06/03/91

CLIENT: TRC/SHIELDALLOY
WORK ORDER: 2724-05-01-0000

WESTON BATCH #: 9104L316

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-022	SMC-SC13S-02	Silver, Total	10.0	u	UG/L	10.0
		Aluminum, Total	30000		UG/L	200
		Arsenic, Total	748		UG/L	200
		Boron, Total	14700		UG/L	100
		Barium, Total	200	u	UG/L	200
		Beryllium, Total	470		UG/L	5.0
		Calcium, Total	5000	u	UG/L	5000
		Cadmium, Total	7.7		UG/L	5.0
		Cobalt, Total	50.0	u	UG/L	50.0
		Chromium, Total	43.4		UG/L	10.0
		Copper, Total	25.0	u	UG/L	25.0
		Iron, Total	1780		UG/L	100
		Mercury, Total	0.20	u	UG/L	0.20
		Potassium, Total	150000		UG/L	5000
		Magnesium, Total	5000	u	UG/L	5000
		Manganese, Total	57.0		UG/L	15.0
		Sodium, Total	1650000		UG/L	50000
		Niobium, Total	200	u	UG/L	200
		Nickel, Total	40.0	u	UG/L	40.0
		Lead, Total	30.0	u	UG/L	30.0
		Antimony, Total	60.0	u	UG/L	60.0
		Selenium, Total	50.0	u	UG/L	50.0
		Strontium, Total	100	u	UG/L	100
		Titanium, Total	100	u	UG/L	100
		Thallium, Total	10.0	u	UG/L	10.0
		Vanadium, Total	124000		UG/L	500
		Zinc, Total	20.0	u	UG/L	20.0
		Zirconium, Total	200	u	UG/L	200

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 06/03/91

CLIENT: TRC/SHIELDALLOY
WORK ORDER: 2724-05-01-0000

WESTON BATCH #: 9104L316

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-023	SMC-SC13D-02	Silver, Total	10.0	u	UG/L	10.0
		Aluminum, Total	200	u	UG/L	200
		Arsenic, Total	10.0	u	UG/L	10.0
		Boron, Total	100	u	UG/L	100
		Barium, Total	200	u	UG/L	200
		Beryllium, Total	5.0	u	UG/L	5.0
		Calcium, Total	5000	u	UG/L	5000
		Cadmium, Total	5.0	u	UG/L	5.0
		Cobalt, Total	50.0	u	UG/L	50.0
		Chromium, Total	10.0	u	UG/L	10.0
		Copper, Total	25.0	u	UG/L	25.0
		Iron, Total	161		UG/L	100
		Mercury, Total	0.20	u	UG/L	0.20
		Potassium, Total	5000	u	UG/L	5000
		Magnesium, Total	5000	u	UG/L	5000
		Manganese, Total	21.4		UG/L	15.0
		Sodium, Total	5000	u	UG/L	5000
		Niobium, Total	200	u	UG/L	200
		Nickel, Total	40.0	u	UG/L	40.0
		Lead, Total	30.0	u	UG/L	30.0
		Antimony, Total	60.0	u	UG/L	60.0
		Selenium, Total	5.0	u	UG/L	5.0
		Strontium, Total	100	u	UG/L	100
		Titanium, Total	100	u	UG/L	100
		Thallium, Total	10.0	u	UG/L	10.0
		Vanadium, Total	50.0	u	UG/L	50.0
		Zinc, Total	20.0	u	UG/L	20.0
		Zirconium, Total	200	u	UG/L	200

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 06/03/91

CLIENT: TRC/SHIELDALLOY
WORK ORDER: 2724-05-01-0000

WESTON BATCH #: 9104L316

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-024	SMC-SC5S-02	Silver, Total	10.0	u	UG/L	10.0
		Aluminum, Total	1060		UG/L	200
		Arsenic, Total	10.0	u	UG/L	10.0
		Barium, Total	200	u	UG/L	200
		Beryllium, Total	5.0	u	UG/L	5.0
		Calcium, Total	5600		UG/L	5000
		Cadmium, Total	5.0	u	UG/L	5.0
		Cobalt, Total	50.0	u	UG/L	50.0
		Chromium, Total	10.0	u	UG/L	10.0
		Copper, Total	25.0	u	UG/L	25.0
		Iron, Total	2630		UG/L	100
		Mercury, Total	0.20	u	UG/L	0.20
		Potassium, Total	5000	u	UG/L	5000
		Magnesium, Total	5000	u	UG/L	5000
		Manganese, Total	34.1		UG/L	15.0
		Sodium, Total	5000	u	UG/L	5000
		Nickel, Total	40.0	u	UG/L	40.0
		Lead, Total	30.0	u	UG/L	30.0
		Antimony, Total	60.0	u	UG/L	60.0
		Selenium, Total	5.0	u	UG/L	5.0
		Thallium, Total	10.0	u	UG/L	10.0
		Vanadium, Total	50.0	u	UG/L	50.0
		Zinc, Total	20.0	u	UG/L	20.0

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 06/03/91

CLIENT: TRC/SHIELDALLOY
WORK ORDER: 2724-05-01-0000

WESTON BATCH #: 9104L316

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-025	SMC-SC5D-02	Silver, Total	10.0	u	UG/L	10.0
		Aluminum, Total	200	u	UG/L	200
		Arsenic, Total	10.0	u	UG/L	10.0
		Barium, Total	234		UG/L	200
		Beryllium, Total	5.0	u	UG/L	5.0
		Calcium, Total	5710		UG/L	5000
		Cadmium, Total	5.0	u	UG/L	5.0
		Cobalt, Total	50.0	u	UG/L	50.0
		Chromium, Total	10.0	u	UG/L	10.0
		Copper, Total	25.0	u	UG/L	25.0
		Iron, Total	291		UG/L	100
		Mercury, Total	13.8		UG/L	4.0
		Potassium, Total	5000	u	UG/L	5000
		Magnesium, Total	5000	u	UG/L	5000
		Manganese, Total	22.7		UG/L	15.0
		Sodium, Total	63200		UG/L	5000
		Nickel, Total	40.0	u	UG/L	40.0
		Lead, Total	30.0	u	UG/L	30.0
		Antimony, Total	60.0	u	UG/L	60.0
		Selenium, Total	5.0	u	UG/L	5.0
		Thallium, Total	10.0	u	UG/L	10.0
		Vanadium, Total	50.0	u	UG/L	50.0
		Zinc, Total	20.0	u	UG/L	20.0

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 06/03/91

CLIENT: TRC/SHIELDALLOY
WORK ORDER: 2724-05-01-0000

WESTON BATCH #: 9104L316

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-026	SMC-SC18S-02	Silver, Total	10.0	u	UG/L	10.0
		Aluminum, Total	2550		UG/L	200
		Arsenic, Total	10.0	u	UG/L	10.0
		Barium, Total	200	u	UG/L	200
		Beryllium, Total	5.0	u	UG/L	5.0
		Calcium, Total	116000		UG/L	5000
		Cadmium, Total	5.0	u	UG/L	5.0
		Cobalt, Total	50.0	u	UG/L	50.0
		Chromium, Total	10.0	u	UG/L	10.0
		Copper, Total	25.0	u	UG/L	25.0
		Iron, Total	23200		UG/L	100
		Mercury, Total	0.20	u	UG/L	0.20
		Potassium, Total	44000		UG/L	5000
		Magnesium, Total	40800		UG/L	5000
		Manganese, Total	372		UG/L	15.0
		Sodium, Total	12600		UG/L	5000
		Nickel, Total	40.0	u	UG/L	40.0
		Lead, Total	30.0	u	UG/L	30.0
		Antimony, Total	60.0	u	UG/L	60.0
		Selenium, Total	5.0	u	UG/L	5.0
		Thallium, Total	10.0	u	UG/L	10.0
		Vanadium, Total	50.0	u	UG/L	50.0
		Zinc, Total	155		UG/L	20.0

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 06/03/91

CLIENT: TRC/SHIELDALLOY
WORK ORDER: 2724-05-01-0000

WESTON BATCH #: 9104L316

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-027	SMC-SC18D-02	Silver, Total	10.0	u	UG/L	10.0
		Aluminum, Total	200	u	UG/L	200
		Arsenic, Total	10.0	u	UG/L	10.0
		Barium, Total	200	u	UG/L	200
		Beryllium, Total	5.0	u	UG/L	5.0
		Calcium, Total	5000	u	UG/L	5000
		Cadmium, Total	5.0	u	UG/L	5.0
		Cobalt, Total	50.0	u	UG/L	50.0
		Chromium, Total	10.0	u	UG/L	10.0
		Copper, Total	25.0	u	UG/L	25.0
		Iron, Total	259		UG/L	100
		Mercury, Total	0.20	u	UG/L	0.20
		Potassium, Total	5000	u	UG/L	5000
		Magnesium, Total	5000	u	UG/L	5000
		Manganese, Total	31.7		UG/L	15.0
		Sodium, Total	35800		UG/L	5000
		Nickel, Total	40.0	u	UG/L	40.0
		Lead, Total	30.0	u	UG/L	30.0
		Antimony, Total	60.0	u	UG/L	60.0
		Selenium, Total	5.0	u	UG/L	5.0
		Thallium, Total	10.0	u	UG/L	10.0
		Vanadium, Total	50.0	u	UG/L	50.0
		Zinc, Total	20.0	u	UG/L	20.0

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 06/03/91

CLIENT: TRC/SHIELDALLOY
WORK ORDER: 2724-05-01-0000

WESTON BATCH #: 9104L316

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-028	SMC-FB2-041791	Silver, Total	10.0	u	UG/L	10.0
		Aluminum, Total	200	u	UG/L	200
		Arsenic, Total	10.0	u	UG/L	10.0
		Boron, Total	100	u	UG/L	100
		Barium, Total	200	u	UG/L	200
		Beryllium, Total	5.0	u	UG/L	5.0
		Calcium, Total	5000	u	UG/L	5000
		Cadmium, Total	5.0	u	UG/L	5.0
		Cobalt, Total	50.0	u	UG/L	50.0
		Chromium, Total	10.0	u	UG/L	10.0
		Copper, Total	25.0	u	UG/L	25.0
		Iron, Total	100	u	UG/L	100
		Mercury, Total	0.20	u	UG/L	0.20
		Potassium, Total	5000	u	UG/L	5000
		Magnesium, Total	5000	u	UG/L	5000
		Manganese, Total	15.0	u	UG/L	15.0
		Sodium, Total	5000	u	UG/L	5000
		Niobium, Total	200	u	UG/L	200
		Nickel, Total	40.0	u	UG/L	40.0
		Lead, Total	30.0	u	UG/L	30.0
		Antimony, Total	60.0	u	UG/L	60.0
		Selenium, Total	5.0	u	UG/L	5.0
		Strontium, Total	100	u	UG/L	100
		Titanium, Total	100	u	UG/L	100
		Thallium, Total	10.0	u	UG/L	10.0
		Vanadium, Total	50.0	u	UG/L	50.0
		Zinc, Total	20.0	u	UG/L	20.0
		Zirconium, Total	200	u	UG/L	200

U.S. EPA - CLP

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name:Roy F. Weston, Inc. Contract:2724-05-01

Lab Code:WESTON Case No:TRC SAS No.: SDG No.:CLP316

SOW No.: 7/87

EPA Sample No.	Lab Sample ID.
SMC-SC14S-02	9104316001
SMC-SC27-02	9104316002
SMC-SC15S-02	9104316003
SMC-SC16S-02	9104316004
SMC-SC20S-02	9104316005
SMC-SC20S-02 D	9104316005 R
SMC-SC20S-02 S	9104316005 S
SMC-SC22S-02	9104316006
SMC-SC22D-02	9104316007
SMC-SC17S-02	9104316008
SMC-SC17D-02	9104316009
SMC-SC23S-02	9104316010
SMC-SC19S-02	9104316014
SMC-SC26S-02	9104316015
SMC-SC19D-02	9104316016
SMC-SC21S-02	9104316017
SMC-SC21D-02	9104316018
SMC-SC11S-02	9104316019
SMC-SC12S-02	9104316020
SMC-SC12D-02	9104316021
SMC-SC13S-02	9104316022
SMC-SC13D-02	9104316023
SMC-SC5S-02	9104316024
SMC-SC5D-02	9104316025
SMC-SC18S-02	9104316026

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:

Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Lab Manager: [signature]

Date: 6.4.91

U.S. EPA - CLP

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: Roy F. Weston, Inc. Contract: 2724-05-01

Lab Code: WESTON Case No: TRC SAS No.: SDG No.: CLP316

SOW No.: 7/87

EPA Sample No.	Lab Sample ID.
SMC-SC18D-02	9104316027
SMC-FB2-041791	9104316028

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:

Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Lab Manager: _____

Date: _____

0000044

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SMC-SC14S-02

Lab Name:Roy F. Weston, Inc. Contract:2724-05-01

Lab Code:WESTON Case No:TRC SAS No.: SDG No.:CLP316

Matrix (soil/water):WATER Lab Sample ID:9104316001

Level (low/med): LOW Date Received:04/18/91

% Solids:

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	1330		*N	P
7440-36-0	Antimony	19.0	U		P
7440-38-2	Arsenic	2.00	U	N	F
7440-39-3	Barium	99.8	B		P
7440-41-7	Beryllium	1.00	U		P
7440-43-9	Cadmium	4.00	U		P
7440-70-2	Calcium	10200			P
7440-47-3	Chromium	91.7	U	N	P
7440-48-4	Cobalt	4.00	U		P
7440-50-8	Copper	7.20	B		P
7439-89-6	Iron	4170			P
7439-92-1	Lead	2.00	U		F
7439-95-4	Magnesium	6420			P
7439-96-5	Manganese	31.1		N	P
7439-97-6	Mercury	0.200	U		CV
7440-02-0	Nickel	9.70	B		P
7440-09-7	Potassium	5140			P
7782-49-2	Selenium	1.00	U	WN	F
7440-22-4	Silver	4.00	U	N	P
7440-23-5	Sodium	11300			P
7440-28-0	Thallium	5.00	U	W	F
7440-62-2	Vanadium	8.00	U		P
7440-66-6	Zinc	36.0		*	P
	Cyanide	10.00	U		C

Color Before:COLORLESS Clarity Before:CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

FORM I - IN

0000045

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SMC-SC27-02

Lab Name:Roy F. Weston, Inc. Contract:2724-05-01

Lab Code:WESTON Case No:TRC SAS No.: SDG No.:CLP316

Matrix (soil/water):WATER Lab Sample ID:9104316002

Level (low/med): LOW Date Received:04/18/91

% Solids:

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	1400		*N	P
7440-36-0	Antimony	19.0	U		P
7440-38-2	Arsenic	2.00	U	N	F
7440-39-3	Barium	95.6	B		P
7440-41-7	Beryllium	1.00	U		P
7440-43-9	Cadmium	4.00	U		P
7440-70-2	Calcium	9570			P
7440-47-3	Chromium	85.8		N	P
7440-48-4	Cobalt	4.00	U		P
7440-50-8	Copper	10.5	B		P
7439-89-6	Iron	4590			P
7439-92-1	Lead	2.00	U	W	F
7439-95-4	Magnesium	6350			P
7439-96-5	Manganese	31.7		N	P
7439-97-6	Mercury	0.200	U		CV
7440-02-0	Nickel	7.00	U		P
7440-09-7	Potassium	6080			P
7782-49-2	Selenium	1.00	U	N	F
7440-22-4	Silver	4.00	U	N	P
7440-23-5	Sodium	11000			P
7440-28-0	Thallium	5.00	U	W	F
7440-62-2	Vanadium	8.00	U		P
7440-66-6	Zinc	29.5		*	P
	Cyanide	10.00	U		C

Color Before:COLORLESS Clarity Before:CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

FORM I - IN

0000046

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SMC-SC15S-02

Lab Name:Roy F. Weston, Inc. Contract:2724-05-01

Lab Code:WESTON Case No:TRC SAS No.: SDG No.:CLP316

Matrix (soil/water):WATER Lab Sample ID:9104316003

Level (low/med): LOW Date Received:04/18/91

% Solids:

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	2990		*N	P
7440-36-0	Antimony	19.0	U		P
7440-38-2	Arsenic	2.00	U	N	F
7440-39-3	Barium	35.1	B		P
7440-41-7	Beryllium	1.00	U		P
7440-43-9	Cadmium	4.00	U		P
7440-70-2	Calcium	18900			P
7440-47-3	Chromium	4.70	B	N	P
7440-48-4	Cobalt	4.00	U		P
7440-50-8	Copper	9.30	B		P
7439-89-6	Iron	2540			P
7439-92-1	Lead	2.10	B	W	F
7439-95-4	Magnesium	4570	B		P
7439-96-5	Manganese	512		N	P
7439-97-6	Mercury	0.200	U		CV
7440-02-0	Nickel	22.5	B		P
7440-09-7	Potassium	4260	B		P
7782-49-2	Selenium	10.0	U	WN	F
7440-22-4	Silver	4.00	U	N	P
7440-23-5	Sodium	9730			P
7440-28-0	Thallium	5.00	U	W	F
7440-62-2	Vanadium	8.00	U		P
7440-66-6	Zinc	83.5		*	P
	Cyanide	10.00	U		C

Color Before:COLORLESS Clarity Before:CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

FORM I - IN

0000047

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SMC-SC16S-02

Lab Name:Roy F. Weston, Inc. Contract:2724-05-01

Lab Code:WESTON Case No:TRC SAS No.: SDG No.:CLP316

Matrix (soil/water):WATER Lab Sample ID:9104316Q04

Level (low/med): LOW Date Received:04/18/91

% Solids:

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	1470		*N	P
7440-36-0	Antimony	19.0	U		P
7440-38-2	Arsenic	2.00	U	N	F
7440-39-3	Barium	65.8	B		P
7440-41-7	Beryllium	1.00	U		P
7440-43-9	Cadmium	4.00	U		P
7440-70-2	Calcium	34500			P
7440-47-3	Chromium	4.70	B	N	P
7440-48-4	Cobalt	4.00	U		P
7440-50-8	Copper	13.4	B		P
7439-89-6	Iron	9340			P
7439-92-1	Lead	2.80	B	W	F
7439-95-4	Magnesium	7720			P
7439-96-5	Manganese	79.5		N	P
7439-97-6	Mercury	0.200	U		CV
7440-02-0	Nickel	7.90	B		P
7440-09-7	Potassium	3820	B		P
7782-49-2	Selenium	10.0	U	WN	F
7440-22-4	Silver	4.00	U	N	P
7440-23-5	Sodium	6790			P
7440-28-0	Thallium	5.00	U		F
7440-62-2	Vanadium	9.50	B		P
7440-66-6	Zinc	35.4		*	P
	Cyanide	10.00	U		C

Color Before:COLORLESS Clarity Before:CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

0000048

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SMC-SC20S-02

Lab Name:Roy F. Weston, Inc. Contract:2724-05-01

Lab Code:WESTON Case No:TRC SAS No.: SDG No.:CLP316

Matrix (soil/water):WATER Lab Sample ID:9104316005

Level (low/med): LOW Date Received:04/18/91

% Solids:

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	827		*N	P
7440-36-0	Antimony	19.0	U		P
7440-38-2	Arsenic	2.20	B	WN	F
7440-39-3	Barium	54.9	B		P
7440-41-7	Beryllium	1.00	U		P
7440-43-9	Cadmium	4.00	U		P
7440-70-2	Calcium	17100			P
7440-47-3	Chromium	224		N	P
7440-48-4	Cobalt	4.00	U		P
7440-50-8	Copper	8.00	B		P
7439-89-6	Iron	7900			P
7439-92-1	Lead	2.00	U	W	F
7439-95-4	Magnesium	10400			P
7439-96-5	Manganese	628		N	P
7439-97-6	Mercury	0.200	U		CV
7440-02-0	Nickel	28.3	B		P
7440-09-7	Potassium	17300			P
7782-49-2	Selenium	1.00	U	N	F
7440-22-4	Silver	4.00	U	N	P
7440-23-5	Sodium	43800			P
7440-28-0	Thallium	5.00	U		F
7440-62-2	Vanadium	8.00	U		P
7440-66-6	Zinc	47.3		*	P
	Cyanide	10.00	U		C

Color Before:COLORLESS Clarity Before:CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

FORM I - IN

0000049

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SMC-SC22S-02

Lab Name:Roy F. Weston, Inc. Contract:2724-05-01

Lab Code:WESTON Case No:TRC SAS No.: SDG No.:CLP316

Matrix (soil/water):WATER Lab Sample ID:9104316006

Level (low/med): LOW Date Received:04/18/91

% Solids:

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	1350		*N	P
7440-36-0	Antimony	19.0	U		P
7440-38-2	Arsenic	2.00	U	NW	F
7440-39-3	Barium	60.1	B		P
7440-41-7	Beryllium	1.00	U		P
7440-43-9	Cadmium	4.00	U		P
7440-70-2	Calcium	14100			P
7440-47-3	Chromium	17.8		N	P
7440-48-4	Cobalt	4.00	U		P
7440-50-8	Copper	15.0	B		P
7439-89-6	Iron	2990			P
7439-92-1	Lead	2.00	U	W	F
7439-95-4	Magnesium	25300			P
7439-96-5	Manganese	132		N	P
7439-97-6	Mercury	0.200	U		CV
7440-02-0	Nickel	14.0	B		P
7440-09-7	Potassium	47300			P
7782-49-2	Selenium	1.00	U	N	F
7440-22-4	Silver	4.00	U	N	P
7440-23-5	Sodium	63100			P
7440-28-0	Thallium	5.00	U	W	F
7440-62-2	Vanadium	31.6	B		P
7440-66-6	Zinc	21.4		*	P
	Cyanide	10.00	U		C

Color Before:COLORLESS Clarity Before:CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

FORM I - IN

0000050

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SMC-SC22D-02

Lab Name:Roy F. Weston, Inc. Contract:2724-05-01

Lab Code:WESTON Case No:TRC SAS No.: SDG No.:CLP316

Matrix (soil/water):WATER Lab Sample ID:9104316007

Level (low/med): LOW Date Received:04/18/91

% Solids:

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	97800		*N	P
7440-36-0	Antimony	1340			P
7440-38-2	Arsenic	314		NS	F
7440-39-3	Barium	507			P
7440-41-7	Beryllium	8.20			P
7440-43-9	Cadmium	4.00	U		P
7440-70-2	Calcium	1460	B		P
7440-47-3	Chromium	62000		N	P
7440-48-4	Cobalt	30.1	B		P
7440-50-8	Copper	34.1			P
7439-89-6	Iron	78400			P
7439-92-1	Lead	24.4		S	F
7439-95-4	Magnesium	3500	B		P
7439-96-5	Manganese	59.0		N	P
7439-97-6	Mercury	0.793			CV
7440-02-0	Nickel	8.70	B		P
7440-09-7	Potassium	9550			P
7782-49-2	Selenium	49.6		NS	F
7440-22-4	Silver	4.00	U	N	P
7440-23-5	Sodium	471000			P
7440-28-0	Thallium	5.00	U	W	F
7440-62-2	Vanadium	1300			P
7440-66-6	Zinc	55.9		*	P
	Cyanide	38.1			C

Color Before:COLORLESS Clarity Before:CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

FORM I - IN

0000051

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SMC-SC17S-02

Lab Name:Roy F. Weston, Inc. Contract:2724-05-01

Lab Code:WESTON Case No:TRC SAS No.: SDG No.:CLP316

Matrix (soil/water):WATER Lab Sample ID:9104316008

Level (low/med): LOW Date Received:04/18/91

% Solids:

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	13200		*N	P
7440-36-0	Antimony	19.0	U		P
7440-38-2	Arsenic	2.00	U	NW	F
7440-39-3	Barium	52.2	B		P
7440-41-7	Beryllium	1.00	U		P
7440-43-9	Cadmium	4.00	U		P
7440-70-2	Calcium	13100			P
7440-47-3	Chromium	18.2		N	P
7440-48-4	Cobalt	15.8	B		P
7440-50-8	Copper	13.1	B		P
7439-89-6	Iron	57700			P
7439-92-1	Lead	6.30		W	F
7439-95-4	Magnesium	3860	B		P
7439-96-5	Manganese	175		N	P
7439-97-6	Mercury	0.340			CV
7440-02-0	Nickel	7.00	U		P
7440-09-7	Potassium	2840	B		P
7782-49-2	Selenium	1.00	U	N	F
7440-22-4	Silver	4.00	U	N	P
7440-23-5	Sodium	19700			P
7440-28-0	Thallium	5.00	U	W	F
7440-62-2	Vanadium	38.5	B		P
7440-66-6	Zinc	45.8		*	P
	Cyanide	10.00	U		C

Color Before:COLORLESS Clarity Before:CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

FORM I - IN

0000052

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SMC-SC17D-02

Lab Name:Roy F. Weston, Inc. Contract:2724-05-01

Lab Code:WESTON Case No:TRC SAS No.: SDG No.:CLP316

Matrix (soil/water):WATER Lab Sample ID:9104316009

Level (low/med): LOW Date Received:04/18/91

% Solids:

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	2140		*N	P
7440-36-0	Antimony	19.0	U		P
7440-38-2	Arsenic	2.00	U	NW	F
7440-39-3	Barium	20.5	B		P
7440-41-7	Beryllium	1.00	U		P
7440-43-9	Cadmium	4.00	U		P
7440-70-2	Calcium	4710	B		P
7440-47-3	Chromium	485		N	P
7440-48-4	Cobalt	4.00	U		P
7440-50-8	Copper	7.90	B		P
7439-89-6	Iron	3490			P
7439-92-1	Lead	5.70		W	F
7439-95-4	Magnesium	679	B		P
7439-96-5	Manganese	39.5		N	P
7439-97-6	Mercury	0.200	U		CV
7440-02-0	Nickel	7.00	U		P
7440-09-7	Potassium	2960	B		P
7782-49-2	Selenium	1.00	U	N	F
7440-22-4	Silver	4.00	U	N	P
7440-23-5	Sodium	26100			P
7440-28-0	Thallium	5.00	U	W	F
7440-62-2	Vanadium	8.00	U		P
7440-66-6	Zinc	30.8		*	P
	Cyanide	10.00	U		C

Color Before:COLORLESS Clarity Before:CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

FORM I - IN

0000053

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SMC-SC23S-02

Lab Name:Roy F. Weston, Inc. Contract:2724-05-01

Lab Code:WESTON Case No:TRC SAS No.: SDG No.:CLP316

Matrix (soil/water):WATER Lab Sample ID:9104316010

Level (low/med): LOW Date Received:04/18/91

% Solids:

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	24300		*N	P
7440-36-0	Antimony	19.0	U		P
7440-38-2	Arsenic	2.80	B	NW	F
7440-39-3	Barium	39.0	B		P
7440-41-7	Beryllium	1.40	B		P
7440-43-9	Cadmium	4.00	U		P
7440-70-2	Calcium	20900			P
7440-47-3	Chromium	295		N	P
7440-48-4	Cobalt	15.8	B		P
7440-50-8	Copper	16.5	B		P
7439-89-6	Iron	26400			P
7439-92-1	Lead	2.40	B	W	F
7439-95-4	Magnesium	7460			P
7439-96-5	Manganese	871		N	P
7439-97-6	Mercury	0.200	U		CV
7440-02-0	Nickel	31.6	B		P
7440-09-7	Potassium	6590			P
7782-49-2	Selenium	10.0	U	NW	F
7440-22-4	Silver	4.00	U	N	P
7440-23-5	Sodium	68100			P
7440-28-0	Thallium	5.00	U	W	F
7440-62-2	Vanadium	32.3	B		P
7440-66-6	Zinc	249		*	P
	Cyanide	10.00	U		C

Color Before:COLORLESS Clarity Before:CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

FORM I - IN

0000054

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SMC-SC19S-02

Lab Name:Roy F. Weston, Inc. Contract:2724-05-01

Lab Code:WESTON Case No:TRC SAS No.: SDG No.:CLP316

Matrix (soil/water):WATER Lab Sample ID:9104316014

Level (low/med): LOW Date Received:04/18/91

% Solids:

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	786		*N	P
7440-36-0	Antimony	19.0	U		P
7440-38-2	Arsenic	2.00	U	NW	F
7440-39-3	Barium	84.8	B		P
7440-41-7	Beryllium	1.00	U		P
7440-43-9	Cadmium	4.00	U		P
7440-70-2	Calcium	13700			P
7440-47-3	Chromium	3.00	U	N	P
7440-48-4	Cobalt	5.60	B		P
7440-50-8	Copper	7.00			P
7439-89-6	Iron	3290			P
7439-92-1	Lead	2.00	U	W	F
7439-95-4	Magnesium	3600	B		P
7439-96-5	Manganese	53.9		N	P
7439-97-6	Mercury	0.200	U		CV
7440-02-0	Nickel	7.00	U		P
7440-09-7	Potassium	3370	B		P
7782-49-2	Selenium	1.00	U	N	F
7440-22-4	Silver	4.00	U	N	P
7440-23-5	Sodium	15100			P
7440-28-0	Thallium	5.00	U		F
7440-62-2	Vanadium	8.00	U		P
7440-66-6	Zinc	20.2		*	P
	Cyanide	10.00	U		C

Color Before:COLORLESS Clarity Before:CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

FORM I - IN

0000055

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SMC-SC26S-02

Lab Name:Roy F. Weston, Inc. Contract:2724-05-01

Lab Code:WESTON Case No:TRC SAS No.: SDG No.:CLP316

Matrix (soil/water):WATER Lab Sample ID:9104316015

Level (low/med): LOW Date Received:04/18/91

% Solids:

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	494		*N	P
7440-36-0	Antimony	19.7	B		P
7440-38-2	Arsenic	2.00	U	NW	F
7440-39-3	Barium	78.5	B		P
7440-41-7	Beryllium	1.00	U		P
7440-43-9	Cadmium	4.00	U		P
7440-70-2	Calcium	12500			P
7440-47-3	Chromium	3.50	B	N	P
7440-48-4	Cobalt	4.00	U		P
7440-50-8	Copper	10.2	B		P
7439-89-6	Iron	1070			P
7439-92-1	Lead	2.00	U	W	F
7439-95-4	Magnesium	3450	B		P
7439-96-5	Manganese	47.6		N	P
7439-97-6	Mercury	0.200	U		CV
7440-02-0	Nickel	7.00	U		P
7440-09-7	Potassium	3750	B		P
7782-49-2	Selenium	1.00	U	N	F
7440-22-4	Silver	4.00	U	N	P
7440-23-5	Sodium	14200			P
7440-28-0	Thallium	5.00	U		F
7440-62-2	Vanadium	8.00	U		P
7440-66-6	Zinc	50.9		*	P
	Cyanide	10.00	U		C

Color Before:COLORLESS Clarity Before:CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

FORM I - IN

000005E

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SMC-SC19D-02

Lab Name:Roy F. Weston, Inc. Contract:2724-05-01

Lab Code:WESTON Case No:TRC SAS No.: SDG No.:CLP316

Matrix (soil/water):WATER Lab Sample ID:9104316016

Level (low/med): LOW Date Received:04/18/91

% Solids:

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	415		*N	P
7440-36-0	Antimony	19.0	U		P
7440-38-2	Arsenic	2.00	U	NW	F
7440-39-3	Barium	39.9	B		P
7440-41-7	Beryllium	1.00	U		P
7440-43-9	Cadmium	4.00	U		P
7440-70-2	Calcium	5620			P
7440-47-3	Chromium	3.10	B	N	P
7440-48-4	Cobalt	4.00	U		P
7440-50-8	Copper	7.00	U		P
7439-89-6	Iron	867			P
7439-92-1	Lead	2.40	B	W	F
7439-95-4	Magnesium	776	B		P
7439-96-5	Manganese	39.3		N	P
7439-97-6	Mercury	0.200	U		CV
7440-02-0	Nickel	7.00	U		P
7440-09-7	Potassium	1390	B		P
7782-49-2	Selenium	1.00	U	NW	F
7440-22-4	Silver	4.00	U	N	P
7440-23-5	Sodium	112000			P
7440-28-0	Thallium	5.00	U	W	F
7440-62-2	Vanadium	8.00	U		P
7440-66-6	Zinc	26.3		*	P
	Cyanide	10.00	U		C

Color Before:COLORLESS Clarity Before:CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

FORM I - IN

0000057

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SMC-SC21S-02

Lab Name:Roy F. Weston, Inc. Contract:2724-05-01

Lab Code:WESTON Case No:TRC SAS No.: SDG No.:CLP316

Matrix (soil/water):WATER Lab Sample ID:9104316017

Level (low/med): LOW Date Received:04/18/91

% Solids:

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	719		*N	P
7440-36-0	Antimony	19.0	U		P
7440-38-2	Arsenic	2.00	U	NW	F
7440-39-3	Barium	38.4	B		P
7440-41-7	Beryllium	1.00	U		P
7440-43-9	Cadmium	4.00	U		P
7440-70-2	Calcium	6190			P
7440-47-3	Chromium	13.0		N	P
7440-48-4	Cobalt	4.00	U		P
7440-50-8	Copper	7.10	B		P
7439-89-6	Iron	3630			P
7439-92-1	Lead	2.30	B	W	F
7439-95-4	Magnesium	1110	B		P
7439-96-5	Manganese	19.3		N	P
7439-97-6	Mercury	0.200	U		CV
7440-02-0	Nickel	7.00	U		P
7440-09-7	Potassium	2630	B		P
7782-49-2	Selenium	1.00	U	NW	F
7440-22-4	Silver	4.00	U	N	P
7440-23-5	Sodium	2580	B		P
7440-28-0	Thallium	5.00	U		F
7440-62-2	Vanadium	8.00	U		P
7440-66-6	Zinc	24.8		*	P
	Cyanide	10.00	U		C

Color Before:COLORLESS Clarity Before:CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

FORM I - IN

0000058

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SMC-SC21D-02

Lab Name:Roy F. Weston, Inc. Contract:2724-05-01

Lab Code:WESTON Case No:TRC SAS No.: SDG No.:CLP316

Matrix (soil/water):WATER Lab Sample ID:9104316018

Level (low/med): LOW Date Received:04/18/91

% Solids:

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	116	B	*N	P
7440-36-0	Antimony	19.0	U		P
7440-38-2	Arsenic	2.00	U	N	F
7440-39-3	Barium	28.6	B		P
7440-41-7	Beryllium	1.00	U		P
7440-43-9	Cadmium	4.00	U		P
7440-70-2	Calcium	3260	B		P
7440-47-3	Chromium	3.60	B	N	P
7440-48-4	Cobalt	4.00	U		P
7440-50-8	Copper	7.00	U		P
7439-89-6	Iron	158			P
7439-92-1	Lead	2.00	U	W	F
7439-95-4	Magnesium	939	B		P
7439-96-5	Manganese	42.2		N	P
7439-97-6	Mercury	0.200	U		CV
7440-02-0	Nickel	7.00	U		P
7440-09-7	Potassium	1010	B		P
7782-49-2	Selenium	1.00	U	N	F
7440-22-4	Silver	4.00	U	N	P
7440-23-5	Sodium	5780			P
7440-28-0	Thallium	5.00	U		F
7440-62-2	Vanadium	8.00	U		P
7440-66-6	Zinc	16.7	B	*	P
	Cyanide	10.00	U		C

Color Before:COLORLESS Clarity Before:CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

FORM I - IN

0000059

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SMC-SC11S-02

Lab Name:Roy F. Weston, Inc. Contract:2724-05-01

Lab Code:WESTON Case No:TRC SAS No.: SDG No.:CLP316

Matrix (soil/water):WATER Lab Sample ID:9104316Q19

Level (low/med): LOW Date Received:04/18/91

% Solids:

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	22700		*N	P
7440-36-0	Antimony	19.0	U		P
7440-38-2	Arsenic	2.00	U	N	F
7440-39-3	Barium	42.4	B		P
7440-41-7	Beryllium	1.00	U		P
7440-43-9	Cadmium	4.00	U		P
7440-70-2	Calcium	4350	B		P
7440-47-3	Chromium	108	U	N	P
7440-48-4	Cobalt	4.00	U		P
7440-50-8	Copper	9.40	B		P
7439-89-6	Iron	982			P
7439-92-1	Lead	2.00	U		F
7439-95-4	Magnesium	9230			P
7439-96-5	Manganese	5.20	B	N	P
7439-97-6	Mercury	0.200	U		CV
7440-02-0	Nickel	7.00	U		P
7440-09-7	Potassium	2790	B		P
7782-49-2	Selenium	1.00	U	N	F
7440-22-4	Silver	4.00	U	N	P
7440-23-5	Sodium	9450			P
7440-28-0	Thallium	5.00	U		F
7440-62-2	Vanadium	176			P
7440-66-6	Zinc	34.2		*	P
	Cyanide	10.00	U		C

Color Before:COLORLESS Clarity Before:CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

FORM I - IN

0000060

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SMC-SC12S-02

Lab Name:Roy F. Weston, Inc. Contract:2724-05-01

Lab Code:WESTON Case No:TRC SAS No.: SDG No.:CLP316

Matrix (soil/water):WATER Lab Sample ID:9104316020

Level (low/med): LOW Date Received:04/18/91

% Solids:

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	622		*N	P
7440-36-0	Antimony	82.3			P
7440-38-2	Arsenic	4.90	B	N	F
7440-39-3	Barium	44.5	B		P
7440-41-7	Beryllium	1.00	U		P
7440-43-9	Cadmium	4.00	U		P
7440-70-2	Calcium	1250	B		P
7440-47-3	Chromium	2360		N	P
7440-48-4	Cobalt	4.00	U		P
7440-50-8	Copper	7.20	B		P
7439-89-6	Iron	2300			P
7439-92-1	Lead	2.00	U	W	F
7439-95-4	Magnesium	7610			P
7439-96-5	Manganese	16.4		N	P
7439-97-6	Mercury	0.200	U		CV
7440-02-0	Nickel	7.00	U		P
7440-09-7	Potassium	180000			P
7782-49-2	Selenium	2.20	B	NW	F
7440-22-4	Silver	4.00	U	N	P
7440-23-5	Sodium	413000			P
7440-28-0	Thallium	5.00	U		F
7440-62-2	Vanadium	38.8	B		P
7440-66-6	Zinc	24.1		*	P
	Cyanide	7.53			C

Color Before:COLORLESS Clarity Before:CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

FORM I - IN

0000061

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SMC-SC12D-02

Lab Name:Roy F. Weston, Inc. Contract:2724-05-01

Lab Code:WESTON Case No:TRC SAS No.: SDG No.:CLP316

Matrix (soil/water):WATER Lab Sample ID:9104316021

Level (low/med): LOW Date Received:04/18/91

% Solids:

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	114	B	*N	P
7440-36-0	Antimony	19.0	U		P
7440-38-2	Arsenic	2.00	U	N	F
7440-39-3	Barium	14.4	B		P
7440-41-7	Beryllium	1.00	U		P
7440-43-9	Cadmium	4.00	U		P
7440-70-2	Calcium	1750	B		P
7440-47-3	Chromium	7.70	B	N	P
7440-48-4	Cobalt	4.00	U		P
7440-50-8	Copper	8.40	B		P
7439-89-6	Iron	233			P
7439-92-1	Lead	2.00	U		F
7439-95-4	Magnesium	376	B		P
7439-96-5	Manganese	25.0		N	P
7439-97-6	Mercury	0.200	U		CV
7440-02-0	Nickel	7.00	U		P
7440-09-7	Potassium	1650	B		P
7782-49-2	Selenium	1.00	U	N	F
7440-22-4	Silver	4.00	U	N	P
7440-23-5	Sodium	3700	B		P
7440-28-0	Thallium	5.00	U		F
7440-62-2	Vanadium	8.00	U		P
7440-66-6	Zinc	22.3		*	P
	Cyanide	10.00	U		C

Color Before:COLORLESS Clarity Before:CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

FORM I - IN

0000062

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SMC-SC13S-02

Lab Name:Roy F. Weston, Inc. Contract:2724-05-01

Lab Code:WESTON Case No:TRC SAS No.: SDG No.:CLP316

Matrix (soil/water):WATER Lab Sample ID:9104316022

Level (low/med): LOW Date Received:04/18/91

% Solids:

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	30000		*N	P
7440-36-0	Antimony	19.0	U		P
7440-38-2	Arsenic	748		NS	F
7440-39-3	Barium	9.80	B		P
7440-41-7	Beryllium	470			P
7440-43-9	Cadmium	7.70			P
7440-70-2	Calcium	1830	B		P
7440-47-3	Chromium	43.4		N	P
7440-48-4	Cobalt	4.00	U		P
7440-50-8	Copper	7.00	U		P
7439-89-6	Iron	1780			P
7439-92-1	Lead	20.0	U	W	F
7439-95-4	Magnesium	1370	B		P
7439-96-5	Manganese	57.0		N	P
7439-97-6	Mercury	0.200	U		CV
7440-02-0	Nickel	29.7	B		P
7440-09-7	Potassium	150000			P
7782-49-2	Selenium	10.0	U	NW	F
7440-22-4	Silver	4.00	U	N	P
7440-23-5	Sodium	1504000			P
7440-28-0	Thallium	5.00	U		F
7440-62-2	Vanadium	128000			P
7440-66-6	Zinc	3.00	U	*	P
	Cyanide	10.0	U		C

Color Before:COLORLESS Clarity Before:CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

FORM I - IN

0000063

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SMC-SC13D-02

Lab Name:Roy F. Weston, Inc. Contract:2724-05-01

Lab Code:WESTON Case No:TRC SAS No.: SDG No.:CLP316

Matrix (soil/water):WATER Lab Sample ID:9104316023

Level (low/med): LOW Date Received:04/18/91

% Solids:

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	197	B	*N	P
7440-36-0	Antimony	19.0	U		P
7440-38-2	Arsenic	2.00	U	NW	F
7440-39-3	Barium	11.3	B		P
7440-41-7	Beryllium	1.00	U		P
7440-43-9	Cadmium	4.00	U		P
7440-70-2	Calcium	2230	B		P
7440-47-3	Chromium	3.00	U	N	P
7440-48-4	Cobalt	4.00	U		P
7440-50-8	Copper	7.00	U		P
7439-89-6	Iron	161			P
7439-92-1	Lead	20.0	U		F
7439-95-4	Magnesium	483	B		P
7439-96-5	Manganese	21.4		N	P
7439-97-6	Mercury	0.200	U		CV
7440-02-0	Nickel	7.00	U		P
7440-09-7	Potassium	1010	U		P
7782-49-2	Selenium	1.00	U	N	F
7440-22-4	Silver	4.00	U	N	P
7440-23-5	Sodium	2870	B		P
7440-28-0	Thallium	5.00	U		F
7440-62-2	Vanadium	8.00	U		P
7440-66-6	Zinc	16.9	B	*	P
	Cyanide	10.00	U		C

Color Before:COLORLESS Clarity Before:CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

FORM I - IN

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SMC-SC5S-02

Lab Name:Roy F. Weston, Inc. Contract:2724-05-01

Lab Code:WESTON Case No:TRC SAS No.: SDG No.:CLP316

Matrix (soil/water):WATER Lab Sample ID:9104316024

Level (low/med): LOW Date Received:04/18/91

% Solids:

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	1060		*N	P
7440-36-0	Antimony	19.0	U		P
7440-38-2	Arsenic	2.00	U	NW	F
7440-39-3	Barium	43.6	B		P
7440-41-7	Beryllium	1.00	U		P
7440-43-9	Cadmium	4.00	U		P
7440-70-2	Calcium	5600			P
7440-47-3	Chromium	3.20	B	N	P
7440-48-4	Cobalt	4.00	U		P
7440-50-8	Copper	7.70	B		P
7439-89-6	Iron	2630			P
7439-92-1	Lead	20.0	U	W	F
7439-95-4	Magnesium	1130	B		P
7439-96-5	Manganese	34.1		N	P
7439-97-6	Mercury	0.200	U		CV
7440-02-0	Nickel	7.00	U		P
7440-09-7	Potassium	1010	U		P
7782-49-2	Selenium	1.00	U	N	F
7440-22-4	Silver	4.00	U	N	P
7440-23-5	Sodium	4160	B		P
7440-28-0	Thallium	5.00	U		F
7440-62-2	Vanadium	8.00	U		P
7440-66-6	Zinc	19.6	B	*	P
	Cyanide	10.00	U		C

Color Before:COLORLESS Clarity Before:CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

0000065

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SMC-SC5D-02

Lab Name:Roy F. Weston, Inc. Contract:2724-05-01

Lab Code:WESTON Case No:TRC SAS No.: SDG No.:CLP316

Matrix (soil/water):WATER Lab Sample ID:9104316025

Level (low/med): LOW Date Received:04/18/91

% Solids:

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	130	B	*N	P
7440-36-0	Antimony	19.0	U		P
7440-38-2	Arsenic	2.00	U	NW	F
7440-39-3	Barium	234			P
7440-41-7	Beryllium	1.00	U		P
7440-43-9	Cadmium	4.00	U		P
7440-70-2	Calcium	5710			P
7440-47-3	Chromium	3.40	B	N	P
7440-48-4	Cobalt	4.00	U		P
7440-50-8	Copper	14.0	B		P
7439-89-6	Iron	291			P
7439-92-1	Lead	20.0	U	W	F
7439-95-4	Magnesium	4720	B		P
7439-96-5	Manganese	22.7		N	P
7439-97-6	Mercury	13.8			CV
7440-02-0	Nickel	7.00	U		P
7440-09-7	Potassium	1010	U		P
7782-49-2	Selenium	1.00	U	N	F
7440-22-4	Silver	4.00	U	N	P
7440-23-5	Sodium	63200			P
7440-28-0	Thallium	5.00	U	W	F
7440-62-2	Vanadium	8.00	U		P
7440-66-6	Zinc	17.6	B	*	P
	Cyanide	10.00	U		C

Color Before:COLORLESS Clarity Before:CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

FORM I - IN

0000066

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SMC-SC18S-02

Lab Name:Roy F. Weston, Inc. Contract:2724-05-01

Lab Code:WESTON Case No:TRC SAS No.: SDG No.:CLP316

Matrix (soil/water):WATER Lab Sample ID:9104316026

Level (low/med): LOW Date Received:04/18/91

% Solids:

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	2550		*N	P
7440-36-0	Antimony	19.0	U		P
7440-38-2	Arsenic	2.00	U	NW	F
7440-39-3	Barium	73.9	B		P
7440-41-7	Beryllium	1.00	U		P
7440-43-9	Cadmium	4.00	U		P
7440-70-2	Calcium	116000			P
7440-47-3	Chromium	3.00	U	N	P
7440-48-4	Cobalt	5.80	B		P
7440-50-8	Copper	8.60	B		P
7439-89-6	Iron	23200			P
7439-92-1	Lead	20.0	U	W	F
7439-95-4	Magnesium	40800			P
7439-96-5	Manganese	372		N	P
7439-97-6	Mercury	0.200	U		CV
7440-02-0	Nickel	17.2	B		P
7440-09-7	Potassium	44000			P
7782-49-2	Selenium	1.00	U	NW	F
7440-22-4	Silver	4.00	U	N	P
7440-23-5	Sodium	12600			P
7440-28-0	Thallium	5.00	U	W	F
7440-62-2	Vanadium	8.00	U		P
7440-66-6	Zinc	155		*	P
	Cyanide	10.00			C

Color Before:COLORLESS Clarity Before:CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

FORM I - IN

0000067

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SMC-SC18D-02

Lab Name:Roy F. Weston, Inc. Contract:2724-05-01

Lab Code:WESTON Case No:TRC SAS No.: SDG No.:CLP316

Matrix (soil/water):WATER Lab Sample ID:9104316027

Level (low/med): LOW Date Received:04/18/91

% Solids:

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	98.5	B	*N	P
7440-36-0	Antimony	19.0	U		P
7440-38-2	Arsenic	2.00	U	NW	F
7440-39-3	Barium	15.4	B		P
7440-41-7	Beryllium	1.00	U		P
7440-43-9	Cadmium	4.00	U		P
7440-70-2	Calcium	2230	B		P
7440-47-3	Chromium	3.00	U	N	P
7440-48-4	Cobalt	4.00	U		P
7440-50-8	Copper	7.00	U		P
7439-89-6	Iron	259			P
7439-92-1	Lead	20.0	U	W	F
7439-95-4	Magnesium	526	B		P
7439-96-5	Manganese	31.7		N	P
7439-97-6	Mercury	0.200	U		CV
7440-02-0	Nickel	7.00	U		P
7440-09-7	Potassium	1010	U		P
7782-49-2	Selenium	1.00	U	NW	F
7440-22-4	Silver	4.00	U	N	P
7440-23-5	Sodium	35800			P
7440-28-0	Thallium	5.00	U		F
7440-62-2	Vanadium	8.00	U		P
7440-66-6	Zinc	11.5	B	*	P
	Cyanide	10.00	U		C

Color Before:COLORLESS Clarity Before:CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

FORM I - IN

0000068

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SMC-FB2-041791

Lab Name:Roy F. Weston, Inc. Contract:2724-05-01

Lab Code:WESTON Case No:TRC SAS No.: SDG No.:CLP316

Matrix (soil/water):WATER Lab Sample ID:9104316028

Level (low/med): LOW Date Received:04/18/91

% Solids:

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	77.0	U	*N	P
7440-36-0	Antimony	19.0	U		P
7440-38-2	Arsenic	2.00	U	NW	F
7440-39-3	Barium	5.00	U		P
7440-41-7	Beryllium	1.00	U		P
7440-43-9	Cadmium	4.00	U		P
7440-70-2	Calcium	92.0	U		P
7440-47-3	Chromium	3.00	U	N	P
7440-48-4	Cobalt	4.00	U		P
7440-50-8	Copper	7.00	U		P
7439-89-6	Iron	37.0	U		P
7439-92-1	Lead	20.0	U		F
7439-95-4	Magnesium	84.0	U		P
7439-96-5	Manganese	2.00	U	N	P
7439-97-6	Mercury	0.200	U		CV
7440-02-0	Nickel	7.00	U		P
7440-09-7	Potassium	1010	U		P
7782-49-2	Selenium	1.00	U	NW	F
7440-22-4	Silver	4.00	U	N	P
7440-23-5	Sodium	146	B		P
7440-28-0	Thallium	5.00	U		F
7440-62-2	Vanadium	8.00	U		P
7440-66-6	Zinc	5.40	B	*	P
	Cyanide	10.00	U		C

Color Before:COLORLESS Clarity Before:CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

FORM I - IN

TRIP AND FIELD BLANK LOG
GROUND WATER ROUND 1

BLANK ID	DATE	ANALYSIS BATCH No.	RFW #
TB1-01	12/17/90	9012L-995	39
TB2-01	12/17/90	9012L-995	8
TB3-01	12/17/90	9012L-995	20
TB1-1218	12/18/90	9012L-002	13
TB2-1218	12/18/90	9012L-002	33
TB3-1218	12/18/90	9012L-002	31
TB4-1218	12/18/90	9012L-002	15
TB1-1219	12/19/90	9012L-015	33
TB2-1219	12/19/90	9012L-015	21
TB3-1219	12/19/90	9012L-015	13
TB4-1219	12/19/90	9012L-015	26
TB5-1219	12/19/90	9012L-015	34
TB1-1220	12/20/90	9012L-031	31
TB2-1220	12/20/90	9012L-031	42
TB3-1220	12/20/90	9012L-031	9
TB4-1220	12/20/90	9012L-031	18
TB5-1220	12/20/90	9012L-031	5
FB1-01	12/17/90	9012L-995	1
FB-1218	12/18/90	9012L-002	14
FB-1219	12/19/90	9012L-015	14
FB-1220	12/20/90	9012L-031	6

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

SMC-TB1-1031

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER Lab Sample ID: 9011L400-003

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: B110708

Level: (low/med) LOW Date Received: 10/31/90

% Moisture: not dec. _____ Date Analyzed: 11/07/90

Column: (pack/cap) CAP Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
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	17	B
67-64-1	Acetone	6	JB
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	Xylene (total)	5	U

1E

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SMC-TB1-1031

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9011L400-003

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: B110708

Level: (low/med) LOW

Date Received: 10/31/90

% Moisture: not dec. _____

Date Analyzed: 11/07/90

Column: (pack/cap) CAP

Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

SMC-TB1-01 134

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER Lab Sample ID: 9012L995-039

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: AKCJ16

Level: (low/med) LOW Date Received: 12/17/90

% Moisture: not dec. _____ Date Analyzed: 12/19/90

Column: (pack/cap) CAP Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
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	8	B
67-64-1	Acetone	10	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	Xylene (total)	5	U

1E
VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SMC-TB1-01 135

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9012L995-039

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: AKCJ16

Level: (low/med) LOW

Date Received: 12/17/90

% Moisture: not dec. _____

Date Analyzed: 12/19/90

Column: (pack/cap) CAP

Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

SMC-TB2-01

055

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER Lab Sample ID: 9012L995-008

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: AKCJ08

Level: (low/med) LOW Date Received: 12/17/90

% Moisture: not dec. _____ Date Analyzed: 12/19/90

Column: (pack/cap) CAP Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
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	JB
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	Xylene (total)	5	U

1E
VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SMC-TB2-01 056

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9012L995-008

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: AKCJ08

Level: (low/med) LOW

Date Received: 12/17/90

% Moisture: not dec. _____

Date Analyzed: 12/19/90

Column: (pack/cap) CAP

Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

SMC-TB3-01

128

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9012L995-020

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: AKCJ15

Level: (low/med) LOW

Date Received: 12/17/90

% Moisture: not dec. _____

Date Analyzed: 12/19/90

Column: (pack/cap) CAP

Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
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	JB
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	Xylene (total)	5	U

1E
VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SMC-TB3-01

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9012L995-020

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: AKCJ15

Level: (low/med) LOW

Date Received: 12/17/90

% Moisture: not dec. _____

Date Analyzed: 12/19/90

Column: (pack/cap) CAP

Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

SMC-TB1-1218 075

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER Lab Sample ID: 9012L002-013

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: AKCL11

Level: (low/med) LOW Date Received: 12/18/90

% Moisture: not dec. _____ Date Analyzed: 12/21/90

Column: (pack/cap) CAP Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
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	Xylene (total)	5	U

1E
VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SMC-TB1-1218 076

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9012L002-013

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: AKCL11

Level: (low/med) LOW

Date Received: 12/18/90

% Moisture: not dec. _____

Date Analyzed: 12/21/90

Column: (pack/cap) CAP

Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1A

VC ILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

SMC-TB2-1218 148

Roy F. Weston, Inc. Work Order: 2724-05-01-0000

TRC/SHIELDALLOY

WATER

Lab Sample ID: 9012L002-033

t/vol: 5.00 (g/mL) ML

Lab File ID: AKC008

(low/med) LOW

Date Received: 12/18/90

ure: not dec. ____

Date Analyzed: 12/26/90

: (pack/cap) CAP

Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
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	JB
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	Xylene (total)	5	U

1E
VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO. 149

SMC-TB2-1218

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9012L002-033

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: AKC008

Level: (low/med) LOW

Date Received: 12/18/90

% Moisture: not dec. _____

Date Analyzed: 12/26/90

Column: (pack/cap) CAP

Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

SMC-TB3-1218

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER Lab Sample ID: 9012L002-031

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: AKC007

Level: (low/med) LOW Date Received: 12/18/90

% Moisture: not dec. _____ Date Analyzed: 12/26/90

Column: (pack/cap) CAP Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
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	JB
67-64-1	Acetone	6	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	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	Xylene (total)	5	U

1E
VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SMC-TB3-1218

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9012L002-031

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: AKC007

Level: (low/med) LOW

Date Received: 12/18/90

% Moisture: not dec. _____

Date Analyzed: 12/26/90

Column: (pack/cap) CAP

Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

SMC-TB4-1218 088

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER Lab Sample ID: 9012L002-015

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: AKCL13

Level: (low/med) LOW Date Received: 12/18/90

% Moisture: not dec. _____ Date Analyzed: 12/21/90

Column: (pack/cap) CAP Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
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	JB
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	Xylene (total)	5	U

1E

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SMC-TB4-1218 089

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9012L002-015

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: AKCL13

Level: (low/med) LOW

Date Received: 12/18/90

% Moisture: not dec. _____

Date Analyzed: 12/21/90

Column: (pack/cap) CAP

Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

SMC-TB1-1219 220

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER Lab Sample ID: 9012L015-033

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: AKCK12

Level: (low/med) LOW Date Received: 12/19/90

% Moisture: not dec. _____ Date Analyzed: 12/20/90

Column: (pack/cap) CAP Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
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	B
67-64-1	Acetone	13	B
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	2	J
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	3	J
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	3	J
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	Xylene (total)	5	U

1E

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SMC-TB1-1219 221

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9012L015-033

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: AKCK12

Level: (low/med) LOW

Date Received: 12/19/90

% Moisture: not dec. ____

Date Analyzed: 12/20/90

Column: (pack/cap) CAP

Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

SMC-TB2-01 161

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER Lab Sample ID: 9012L015-021

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: AKCK05

Level: (low/med) LOW Date Received: 12/19/90

% Moisture: not dec. _____ Date Analyzed: 12/20/90

Column: (pack/cap) CAP Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
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	7	B
67-64-1	Acetone	15	B
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	2	J
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	3	J
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	3	J
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	Xylene (total)	5	U

1E
VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SMC-TB2-01 162

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9012L015-021

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: AKCK05

Level: (low/med) LOW

Date Received: 12/19/90

% Moisture: not dec. _____

Date Analyzed: 12/20/90

Column: (pack/cap) CAP

Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

354

SMC-TB2-01MS

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9012L015-021 MS

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: AKCK14

Level: (low/med) LOW

Date Received: 12/19/90

% Moisture: not dec. _____

Date Analyzed: 12/20/90

Column: (pack/cap) CAP

Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
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	11	B
67-64-1	Acetone	10	B
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene		S
75-34-3	1,1-Dichloroethane	2	J
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	3	J
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	3	J
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		S
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene		S
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		S
108-90-7	Chlorobenzene		S
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

S: SPIKE COMPOUND

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO. 358

SMC-TB2-01MSD

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9012L015-021 MSD

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: AKCK15

Level: (low/med) LOW

Date Received: 12/19/90

% Moisture: not dec. _____

Date Analyzed: 12/20/90

Column: (pack/cap) CAP

Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
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	10	B
67-64-1	Acetone	9	JB
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene		S
75-34-3	1,1-Dichloroethane	2	J
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	3	J
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	3	J
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		S
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene		S
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		S
108-90-7	Chlorobenzene		S
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

S: SPIKE COMPOUND

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

SMC-TB3-1219 097

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9012L015-013

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: W122608

Level: (low/med) LOW

Date Received: 12/19/90

% Moisture: not dec. _____

Date Analyzed: 12/26/90

Column: (pack/cap) PACK

Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
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	9	B
67-64-1	Acetone	11	B
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	2	J
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	4	J
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	3	J
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	Xylene (total)	5	U

1E
VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SMC-TB3-1219 098

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9012L015-013

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: W122608

Level: (low/med) LOW

Date Received: 12/19/90

% Moisture: not dec. _____

Date Analyzed: 12/26/90

Column: (pack/cap) PACK

Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

SMC-TB4-01 183

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER Lab Sample ID: 9012L015-026

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: AKCK08

Level: (low/med) LOW Date Received: 12/19/90

% Moisture: not dec. _____ Date Analyzed: 12/20/90

Column: (pack/cap) CAP Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
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	10	B
67-64-1	Acetone	15	B
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	2	J
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	3	J
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	3	J
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	Xylene (total)	5	U

1E
VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

~~184~~

SMC-TB4-01

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9012L015-026

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: AKCK08

Level: (low/med) LOW

Date Received: 12/19/90

% Moisture: not dec. _____

Date Analyzed: 12/20/90

Column: (pack/cap) CAP

Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO. 16

SMC-TB1-1220

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9012L031-031

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: Y122614

Level: (low/med) LOW

Date Received: 12/21/90

% Moisture: not dec. _____

Date Analyzed: 12/26/90

Column: (pack/cap) PACK

Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
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	31	B
67-64-1	Acetone	17	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	Xylene (total)	5	U

1E
VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

~~161~~

SMC-TB1-1220

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9012L031-031

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: Y122614

Level: (low/med) LOW

Date Received: 12/21/90

% Moisture: not dec. _____

Date Analyzed: 12/26/90

Column: (pack/cap) PACK

Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO. 198

SMC-TB2-1220

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER Lab Sample ID: 9012L031-042

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: Y122611

Level: (low/med) LOW Date Received: 12/21/90

% Moisture: not dec. _____ Date Analyzed: 12/26/90

Column: (pack/cap) PACK Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
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	31	B
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	Xylene (total)	5	U

1E
VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO 199

SMC-TB2-1220

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9012L031-042

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: Y122611

Level: (low/med) LOW

Date Received: 12/21/90

% Moisture: not dec. ____

Date Analyzed: 12/26/90

Column: (pack/cap) PACK

Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

SMC-TB3-1220

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER Lab Sample ID: 9012L031-009

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: Y122612

Level: (low/med) LOW Date Received: 12/21/90

% Moisture: not dec. _____ Date Analyzed: 12/26/90

Column: (pack/cap) PACK Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
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	29	B
67-64-1	Acetone	17	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	Xylene (total)	5	U

1E
VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO. 71

SMC-TB3-1220

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9012L031-009

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: Y122612

Level: (low/med) LOW

Date Received: 12/21/90

% Moisture: not dec. ____

Date Analyzed: 12/26/90

Column: (pack/cap) PACK

Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.
108
SMC-TB4-1220

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER Lab Sample ID: 9012L031-018

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: Y122613

Level: (low/med) LOW Date Received: 12/21/90

% Moisture: not dec. _____ Date Analyzed: 12/26/90

Column: (pack/cap) PACK Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
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	26	B
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	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	Xylene (total)	5	U

1E
VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO. 10

SMC-TB4-1220

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9012L031-018

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: Y122613

Level: (low/med) LOW

Date Received: 12/21/90

% Moisture: not dec. _____

Date Analyzed: 12/26/90

Column: (pack/cap) PACK

Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE

SMC-TB5-1220

30

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9012L031-005

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: Y122610

Level: (low/med) LOW

Date Received: 12/21/90

% Moisture: not dec. _____

Date Analyzed: 12/26/90

Column: (pack/cap) PACK

Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
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	39	B
67-64-1	Acetone	22	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	Xylene (total)	5	U

1E
VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO. 31

SMC-TB5-1220

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9012L031-005

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: Y122610

Level: (low/med) LOW

Date Received: 12/21/90

% Moisture: not dec. ____

Date Analyzed: 12/26/90

Column: (pack/cap) PACK

Dilution Factor: 1.00

Number TICs found: 1

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	A SILANE	6.10	5	J

FORM 1 VOA-TIC 12/88 Rev.

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO. 113

SMC-FB-1108DL

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9011L541-039 DL

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: AKBF07

Level: (low/med) LOW

Date Received: 11/09/90

% Moisture: not dec. _____

Date Analyzed: 11/15/90

Column: (pack/cap) CAP

Dilution Factor: 2.00

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

CAS NO.	COMPOUND		
74-87-3	Chloromethane	NA	
74-83-9	Bromomethane	NA	
75-01-4	Vinyl Chloride	NA	
75-00-3	Chloroethane	NA	
75-09-2	Methylene Chloride	NA	
67-64-1	Acetone	390	
75-15-0	Carbon Disulfide	NA	
75-35-4	1,1-Dichloroethene	NA	
75-34-3	1,1-Dichloroethane	NA	
540-59-0	1,2-Dichloroethene (total)	NA	
67-66-3	Chloroform	NA	
107-06-2	1,2-Dichloroethane	NA	
78-93-3	2-Butanone	NA	
71-55-6	1,1,1-Trichloroethane	NA	
56-23-5	Carbon Tetrachloride	NA	
108-05-4	Vinyl Acetate	NA	
75-27-4	Bromodichloromethane	NA	
78-87-5	1,2-Dichloropropane	NA	
10061-01-5	cis-1,3-Dichloropropene	NA	
79-01-6	Trichloroethene	NA	
124-48-1	Dibromochloromethane	NA	
79-00-5	1,1,2-Trichloroethane	NA	
71-43-2	Benzene	NA	
10061-02-6	Trans-1,3-Dichloropropene	NA	
75-25-2	Bromoform	NA	
108-10-1	4-Methyl-2-pentanone	NA	
591-78-6	2-Hexanone	NA	
127-18-4	Tetrachloroethene	NA	
79-34-5	1,1,2,2-Tetrachloroethane	NA	
108-88-3	Toluene	NA	
108-90-7	Chlorobenzene	NA	
100-41-4	Ethylbenzene	NA	
100-42-5	Styrene	NA	
1330-20-7	Xylene (total)	NA	

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

SMC-FB-1107

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9011L518-022

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: B111404

Level: (low/med) LOW

Date Received: 11/07/90

% Moisture: not dec. _____

Date Analyzed: 11/14/90

Column: (pack/cap) CAP

Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
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	15	B
67-64-1	Acetone	49	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	1	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	Xylene (total)	5	U

1E

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SMC-FB-1107

Lab Name: Rov F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9011L518-022

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: B111404

Level: (low/med) LOW

Date Received: 11/07/90

% Moisture: not dec. _____

Date Analyzed: 11/14/90

Column: (pack/cap) CAP

Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO. 28

SMC-FB-1114

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER Lab Sample ID: 9011L633-011

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: AKBK14

Level: (low/med) LOW Date Received: 11/15/90

% Moisture: not dec. _____ Date Analyzed: 11/20/90

Column: (pack/cap) CAP Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
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	14	B
67-64-1	Acetone	32	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	2	J
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	3	J
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	Xylene (total)	5	U

1E

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SMC-FB-1114

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 90111633-011

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: AKBK14

Level: (low/med) LOW

Date Received: 11/15/90

% Moisture: not dec. ____

Date Analyzed: 11/20/90

Column: (pack/cap) CAP

Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO. 50

SMC-FB-1116

Lab Name: Roy F. Weston, Inc. Work Order: 3486-06-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER Lab Sample ID: 9011L679-004

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: P112606

Level: (low/med) LOW Date Received: 11/16/90

% Moisture: not dec. _____ Date Analyzed: 11/26/90

Column: (pack/cap) CAP Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
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	10	B
67-64-1	Acetone	29	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	Xylene (total)	5	U

1E

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO. 51

SMC-FB-1116

Lab Name: Roy F. Weston, Inc. Work Order: 3486-06-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9011L679-004

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: P112606

Level: (low/med) LOW

Date Received: 11/16/90

% Moisture: not dec. _____

Date Analyzed: 11/26/90

Column: (pack/cap) CAP

Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

SMC-FB-1218 081

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER Lab Sample ID: 9012L002-014

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: AKCL12

Level: (low/med) LOW Date Received: 12/18/90

% Moisture: not dec. ____ Date Analyzed: 12/21/90

Column: (pack/cap) CAP Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	
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	JB
67-64-1	Acetone	18	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	Xylene (total)	5	U

1E
VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SMC-FB-1218 082

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER Lab Sample ID: 9012L002-014

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: AKCL12

Level: (low/med) LOW Date Received: 12/18/90

% Moisture: not dec. ____ Date Analyzed: 12/21/90

Column: (pack/cap) CAP Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

SMC-FB-1219 111

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9012L015-014

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: W122609

Level: (low/med) LOW

Date Received: 12/19/90

% Moisture: not dec. ____

Date Analyzed: 12/26/90

Column: (pack/cap) PACK

Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
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	13	B
67-64-1	Acetone	9	JB
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	2	J
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	3	J
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	3	J
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	Xylene (total)	5	U

1E

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SMC-FB-1219 112

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9012L015-014

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: W122609

Level: (low/med) LOW

Date Received: 12/19/90

% Moisture: not dec. _____

Date Analyzed: 12/26/90

Column: (pack/cap) PACK

Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

SMC-FB5-1219 230

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER Lab Sample ID: 9012L015-034

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: AKCK13

Level: (low/med) LOW Date Received: 12/19/90

% Moisture: not dec. _____ Date Analyzed: 12/20/90

Column: (pack/cap) CAP Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
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	9	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	2	J
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	3	J
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	3	J
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	Xylene (total)	5	U

1E
VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

231

SMC-FB5-1219

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9012L015-034

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: AKCK13

Level: (low/med) LOW

Date Received: 12/19/90

% Moisture: not dec. _____

Date Analyzed: 12/20/90

Column: (pack/cap) CAP

Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

SMC-FB-1220 40

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER Lab Sample ID: 9012L031-006

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: Y122609

Level: (low/med) LOW Date Received: 12/21/90

% Moisture: not dec. _____ Date Analyzed: 12/26/90

Column: (pack/cap) PACK Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
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	13	B
67-64-1	Acetone	10	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	Xylene (total)	5	U

1E
VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO. 41

SMC-FB-1220

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9012L031-006

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: Y122609

Level: (low/med) LOW

Date Received: 12/21/90

% Moisture: not dec. ____

Date Analyzed: 12/26/90

Column: (pack/cap) PACK

Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

SMC-FB1-01 024

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER Lab Sample ID: 9012L995-001

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: AKCJ04

Level: (low/med) LOW Date Received: 12/17/90

% Moisture: not dec. _____ Date Analyzed: 12/19/90

Column: (pack/cap) CAP Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
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	JB
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	Xylene (total)	5	U

1E
VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SMC-FB1-01 025

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9012L995-001

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: AKCJ04

Level: (low/med) LOW

Date Received: 12/17/90

% Moisture: not dec. _____

Date Analyzed: 12/19/90

Column: (pack/cap) CAP

Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

SMC-FB1-01MS

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9012L995-001 MS

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: AKCJ17

Level: (low/med) LOW

Date Received: 12/17/90

% Moisture: not dec. ____

Date Analyzed: 12/19/90

Column: (pack/cap) CAP

Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
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	9	B
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene		S
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		S
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene		S
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		S
108-90-7	Chlorobenzene		S
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

S: SPIKE COMPOUND

FORM 1 V-1

12/88 Rev.

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

200

SMC-FB1-01MSD

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9012L995-001 MSD

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: AKCJ18

Level: (low/med) LOW

Date Received: 12/17/90

% Moisture: not dec. _____

Date Analyzed: 12/19/90

Column: (pack/cap) CAP

Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
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	10	B
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene		S
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		S
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene		S
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		S
108-90-7	Chlorobenzene		S
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

S: SPIKE COMPOUND

FORM 1 V-1

12/88 Rev.

1B
SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

SMC-FB03-01-RA

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER Lab Sample ID: 9010L385-025

Sample wt/vol: 880 (g/mL) ML Lab File ID: S112014

Level: (low/med) LOW Date Received: 10/30/90

% Moisture: not dec. _____ dec. Date Extracted: 11/05/90

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 11/20/90

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
108-95-2	Phenol	11	U
111-44-4	bis(2-Chloroethyl)ether	11	U
95-57-8	2-Chlorophenol	11	U
541-73-1	1,3-Dichlorobenzene	11	U
106-46-7	1,4-Dichlorobenzene	11	U
100-51-6	Benzyl alcohol	11	U
95-50-1	1,2-Dichlorobenzene	11	U
95-48-7	2-Methylphenol	11	U
108-60-1	bis(2-Chloroisopropyl)ether	11	U
106-44-5	4-Methylphenol	11	U
621-64-7	N-Nitroso-Di-n-propylamine	11	U
67-72-1	Hexachloroethane	11	U
98-95-3	Nitrobenzene	11	U
78-59-1	Isophorone	11	U
88-75-5	2-Nitrophenol	11	U
105-67-9	2,4-Dimethylphenol	11	U
65-85-0	Benzoic acid	55	U
111-91-1	bis(2-Chloroethoxy)methane	11	U
120-83-2	2,4-Dichlorophenol	11	U
120-82-1	1,2,4-Trichlorobenzene	11	U
91-20-3	Naphthalene	11	U
106-47-8	4-Chloroaniline	11	U
87-68-3	Hexachlorobutadiene	11	U
59-50-7	4-Chloro-3-methylphenol	11	U
91-57-6	2-Methylnaphthalene	11	U
77-47-4	Hexachlorocyclopentadiene	11	U
88-06-2	2,4,6-Trichlorophenol	11	U
95-95-4	2,4,5-Trichlorophenol	55	U
91-58-7	2-Chloronaphthalene	11	U
88-74-4	2-Nitroaniline	55	U
131-11-3	Dimethylphthalate	11	U
208-96-8	Acenaphthylene	11	U
606-20-2	2,6-Dinitrotoluene	11	U

1C

SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

SMC-FB03-01-RA

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER Lab Sample ID: 9010L385-025

Sample wt/vol: 880 (g/mL) ML Lab File ID: S112014

Level: (low/med) LOW Date Received: 10/30/90

% Moisture: not dec. _____ dec. Date Extracted: 11/05/90

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 11/20/90

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
99-09-2	3-Nitroaniline	55	U
83-32-9	Acenaphthene	11	U
51-28-5	2,4-Dinitrophenol	55	U
100-02-7	4-Nitrophenol	55	U
132-64-9	Dibenzofuran	11	U
121-14-2	2,4-Dinitrotoluene	11	U
84-66-2	Diethylphthalate	11	U
7005-72-3	4-Chlorophenyl-phenylether	11	U
86-73-7	Fluorene	11	U
100-01-6	4-Nitroaniline	55	U
534-52-1	4,6-Dinitro-2-methylphenol	55	U
86-30-6	N-Nitrosodiphenylamine (1)	11	U
101-55-3	4-Bromophenyl-phenylether	11	U
118-74-1	Hexachlorobenzene	11	U
87-86-5	Pentachlorophenol	55	U
85-01-8	Phenanthrene	11	U
120-12-7	Anthracene	11	U
84-74-2	Di-n-Butylphthalate	11	U
206-44-0	Fluoranthene	11	U
129-00-0	Pyrene	11	U
85-68-7	Butylbenzylphthalate	11	U
91-94-1	3,3'-Dichlorobenzidine	22	U
56-55-3	Benzo(a)anthracene	11	U
218-01-9	Chrysene	11	U
117-81-7	bis(2-Ethylhexyl)phthalate	11	U
117-84-0	Di-n-Octyl phthalate	11	U
205-99-2	Benzo(b)fluoranthene	11	U
207-08-9	Benzo(k)fluoranthene	11	U
50-32-8	Benzo(a)pyrene	11	U
193-39-5	Indeno(1,2,3-cd)pyrene	11	U
53-70-3	Dibenzo(a,h)anthracene	11	U
191-24-2	Benzo(g,h,i)perylene	11	U

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SMC-FB03-01-RA

ab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9010L385-025

19

Sample wt/vol: 880 (g/mL) ML

Lab File ID: S112014

Level: (low/med) LOW

Date Received: 10/30/90

% Moisture: not dec. _____ dec.

Date Extracted: 11/05/90

Extraction: (SepF/Cont/Sonc) CONT

Date Analyzed: 11/20/90

GPC Cleanup: (Y/N) N pH: 7.0

Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1B
SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO. 44

SMC-FB4-1031

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER Lab Sample ID: 9011L400-002

Sample wt/vol: 960 (g/mL) ML Lab File ID: S112015

Level: (low/med) LOW Date Received: 10/31/90

% Moisture: not dec. ____ dec. Date Extracted: 11/05/90

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 11/20/90

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	bis(2-Chloroisopropyl)ether	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic acid	50	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U

1C
SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

SMC-FB4-1031

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER Lab Sample ID: 9011L400-002

Sample wt/vol: 960 (g/mL) ML Lab File ID: S112015

Level: (low/med) LOW Date Received: 10/31/90

% Moisture: not dec. _____ dec. Date Extracted: 11/05/90

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 11/20/90

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-Octyl phthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO. 46

SMC-FB4-1031

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9011L400-002

Sample wt/vol: 960 (g/mL) ML

Lab File ID: S112015

Level: (low/med) LOW

Date Received: 10/31/90

% Moisture: not dec. _____ dec.

Date Extracted: 11/05/90

Extraction: (SepF/Cont/Sonc) CONT

Date Analyzed: 11/20/90

GPC Cleanup: (Y/N) N pH: 7.0

Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1B
SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

SMC-FB-1106 317

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER Lab Sample ID: 9011L494-021

Sample wt/vol: 640 (g/mL) ML Lab File ID: L121720

Level: (low/med) LOW Date Received: 11/06/90

% Moisture: not dec. _____ dec. Date Extracted: 11/09/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 12/18/90

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
108-95-2	Phenol	16	U
111-44-4	bis(2-Chloroethyl)ether	16	U
95-57-8	2-Chlorophenol	16	U
541-73-1	1,3-Dichlorobenzene	16	U
106-46-7	1,4-Dichlorobenzene	16	U
100-51-6	Benzyl alcohol	16	U
95-50-1	1,2-Dichlorobenzene	16	U
95-48-7	2-Methylphenol	16	U
108-60-1	bis(2-Chloroisopropyl)ether	16	U
106-44-5	4-Methylphenol	16	U
621-64-7	N-Nitroso-Di-n-propylamine	16	U
67-72-1	Hexachloroethane	16	U
98-95-3	Nitrobenzene	16	U
78-59-1	Isophorone	16	U
88-75-5	2-Nitrophenol	16	U
105-67-9	2,4-Dimethylphenol	16	U
65-85-0	Benzoic acid	80	U
111-91-1	bis(2-Chloroethoxy)methane	16	U
120-83-2	2,4-Dichlorophenol	16	U
120-82-1	1,2,4-Trichlorobenzene	16	U
91-20-3	Naphthalene	16	U
106-47-8	4-Chloroaniline	16	U
87-68-3	Hexachlorobutadiene	16	U
59-50-7	4-Chloro-3-methylphenol	16	U
91-57-6	2-Methylnaphthalene	16	U
77-47-4	Hexachlorocyclopentadiene	16	U
88-06-2	2,4,6-Trichlorophenol	16	U
95-95-4	2,4,5-Trichlorophenol	80	U
91-58-7	2-Chloronaphthalene	16	U
88-74-4	2-Nitroaniline	80	U
131-11-3	Dimethylphthalate	16	U
208-96-8	Acenaphthylene	16	U
606-20-2	2,6-Dinitrotoluene	16	U

1C
SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

SMC-FB-1106 318

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER Lab Sample ID: 9011L494-021

Sample wt/vol: 640 (g/mL) ML Lab File ID: L121720

Level: (low/med) LOW Date Received: 11/06/90

% Moisture: not dec. _____ dec. Date Extracted: 11/09/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 12/18/90

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
99-09-2	3-Nitroaniline	80	U
83-32-9	Acenaphthene	16	U
51-28-5	2,4-Dinitrophenol	80	U
100-02-7	4-Nitrophenol	80	U
132-64-9	Dibenzofuran	16	U
121-14-2	2,4-Dinitrotoluene	16	U
84-66-2	Diethylphthalate	16	U
7005-72-3	4-Chlorophenyl-phenylether	16	U
86-73-7	Fluorene	16	U
100-01-6	4-Nitroaniline	80	U
534-52-1	4,6-Dinitro-2-methylphenol	80	U
86-30-6	N-Nitrosodiphenylamine (1)	16	U
101-55-3	4-Bromophenyl-phenylether	16	U
118-74-1	Hexachlorobenzene	16	U
87-86-5	Pentachlorophenol	80	U
85-01-8	Phenanthrene	16	U
120-12-7	Anthracene	16	U
84-74-2	Di-n-Butylphthalate	16	U
206-44-0	Fluoranthene	16	U
129-00-0	Pyrene	16	U
85-68-7	Butylbenzylphthalate	16	U
91-94-1	3,3'-Dichlorobenzidine	32	U
56-55-3	Benzo(a)anthracene	16	U
218-01-9	Chrysene	16	U
117-81-7	bis(2-Ethylhexyl)phthalate	16	U
117-84-0	Di-n-Octyl phthalate	16	U
205-99-2	Benzo(b)fluoranthene	16	U
207-08-9	Benzo(k)fluoranthene	16	U
50-32-8	Benzo(a)pyrene	16	U
193-39-5	Indeno(1,2,3-cd)pyrene	16	U
53-70-3	Dibenzo(a,h)anthracene	16	U
191-24-2	Benzo(g,h,i)perylene	16	U

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SMC-FB-1106 319

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER Lab Sample ID: 9011L494-021

Sample wt/vol: 640 (g/mL) ML Lab File ID: L121720

Level: (low/med) LOW Date Received: 11/06/90

% Moisture: not dec. _____ dec. Date Extracted: 11/09/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 12/18/90

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

Number TICs found: 2

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	ALDOL CONDENSATE	5.55	10	JAB
2.	UNKNOWN	22.00	10	J

1B
SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

182

SMC-FB-1108

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER Lab Sample ID: 9011L541-039

Sample wt/vol: 990 (g/mL) ML Lab File ID: S120608

Level: (low/med) LOW Date Received: 11/09/90

% Moisture: not dec. _____ dec. Date Extracted: 11/13/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 12/06/90

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	bis(2-Chloroisopropyl)ether	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic acid	50	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U

1C
SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.
183
SMC-FB-1108

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER Lab Sample ID: 9011L541-039

Sample wt/vol: 990 (g/mL) ML Lab File ID: S120608

Level: (low/med) LOW Date Received: 11/09/90

% Moisture: not dec. ____ dec. Date Extracted: 11/13/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 12/06/90

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	2	J
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-Octyl phthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

SMC-FB4-1031

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER Lab Sample ID: 9011L400-002

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: B110707

Level: (low/med) LOW Date Received: 10/31/90

% Moisture: not dec. _____ Date Analyzed: 11/07/90

Column: (pack/cap) CAP Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
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	19	B
67-64-1	Acetone	11	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	Xylene (total)	5	U

1E

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SMC-FB4-1031

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9011L400-002

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: B110707

Level: (low/med) LOW

Date Received: 10/31/90

% Moisture: not dec. _____

Date Analyzed: 11/07/90

Column: (pack/cap) CAP

Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

SMC-FB-1106

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER Lab Sample ID: 9011L494-021

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: AKB011

Level: (low/med) LOW Date Received: 11/06/90

% Moisture: not dec. _____ Date Analyzed: 11/13/90

Column: (pack/cap) CAP Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
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	JB
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	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	Xylene (total)	5	U

1E

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SMC-FB-1106

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9011L494-021

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: AKBD11

Level: (low/med) LOW

Date Received: 11/06/90

% Moisture: not dec. _____

Date Analyzed: 11/13/90

Column: (pack/cap) CAP

Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO. 107

SMC-FB-1108

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9011L541-039

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: AKBE12

Level: (low/med) LOW

Date Received: 11/09/90

% Moisture: not dec. _____

Date Analyzed: 11/14/90

Column: (pack/cap) CAP

Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
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	JB
67-64-1	Acetone		E
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	Xylene (total)	5	U

1E
VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SMC-FB-1108

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9011L541-039

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: AKBE12

Level: (low/med) LOW

Date Received: 11/09/90

% Moisture: not dec. ____

Date Analyzed: 11/14/90

Column: (pack/cap) CAP

Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1B
SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

SMC-FB-1114

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER Lab Sample ID: 9011L633-011

Sample wt/vol: 990 (g/mL) ML Lab File ID: S120604

Level: (low/med) LOW Date Received: 11/15/90

% Moisture: not dec. _____ dec. Date Extracted: 11/19/90

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 12/06/90

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	bis(2-Chloroisopropyl)ether	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic acid	50	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U

1C
SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

SMC-FB-1114

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER Lab Sample ID: 9011L633-011

Sample wt/vol: 990 (g/mL) ML Lab File ID: S120604

Level: (low/med) LOW Date Received: 11/15/90

% Moisture: not dec. _____ dec. Date Extracted: 11/19/90

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 12/06/90

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-Butylphthalate	1	J
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-Octyl phthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SMC-FB-1114

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9011L633-011

Sample wt/vol: 990 (g/mL) ML

Lab File ID: S120604

Level: (low/med) LOW

Date Received: 11/15/90

% Moisture: not dec. _____ dec.

Date Extracted: 11/19/90

Extraction: (SepF/Cont/Sonc) CONT

Date Analyzed: 12/06/90

GPC Cleanup: (Y/N) N pH: 7.0

Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1B
SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

SMC-FB-1116

Lab Name: Roy F. Weston, Inc. Work Order: 3486-06-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER Lab Sample ID: 9011L679-004

Sample wt/vol: 990 (g/mL) ML Lab File ID: L122807

Level: (low/med) LOW Date Received: 11/16/90

% Moisture: not dec. _____ dec. Date Extracted: 11/19/90

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 12/28/90

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	bis(2-Chloroisopropyl)ether	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic acid	50	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U

1C
SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

SMC-FB-1116 64

Lab Name: Roy F. Weston, Inc. Work Order: 3486-06-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER Lab Sample ID: 9011L679-004

Sample wt/vol: 990 (g/mL) ML Lab File ID: L122807

Level: (low/med) LOW Date Received: 11/16/90

% Moisture: not dec. _____ dec. Date Extracted: 11/19/90

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 12/28/90

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-Octyl phthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1B
SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

SMC-FB-1219

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER Lab Sample ID: 9012L015-014

22

Sample wt/vol: 990 (g/mL) ML Lab File ID: J012503

Level: (low/med) LOW Date Received: 12/19/90

% Moisture: not dec. _____ dec. Date Extracted: 12/21/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 01/25/91

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	bis(2-Chloroisopropyl)ether	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic acid	50	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U

1C
SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

SMC-FB-1219

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER Lab Sample ID: 9012L015-014

Sample wt/vol: 990 (g/mL) ML Lab File ID: J012503

Level: (low/med) LOW Date Received: 12/19/90

% Moisture: not dec. _____ /dec. Date Extracted: 12/21/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 01/25/91

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-Octyl phthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SMC-FB-1219

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9012L015-014

Sample wt/vol: 990 (g/mL) ML

Lab File ID: J012503

Level: (low/med) LOW

Date Received: 12/19/90

% Moisture: not dec. _____ dec.

Date Extracted: 12/21/90

Extraction: (SepF/Cont/Sonc) SEPF

Date Analyzed: 01/25/91

GPC Cleanup: (Y/N) N pH: 7.0

Dilution Factor: 1.00

Number TICs found: 2

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	ALKYNE	21.05	200	JB
2.	ALKANE	22.41	5	J

1B
SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

SMC-FB-1220

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER Lab Sample ID: 9012L031-006

Sample wt/vol: 880 (g/mL) ML Lab File ID: L013011

Level: (low/med) LOW Date Received: 12/21/90

% Moisture: not dec. _____ dec. Date Extracted: 12/26/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 01/30/91

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
108-95-2	Phenol	11	U
111-44-4	bis(2-Chloroethyl)ether	11	U
95-57-8	2-Chlorophenol	11	U
541-73-1	1,3-Dichlorobenzene	11	U
106-46-7	1,4-Dichlorobenzene	11	U
100-51-6	Benzyl alcohol	11	U
95-50-1	1,2-Dichlorobenzene	11	U
95-48-7	2-Methylphenol	11	U
108-60-1	bis(2-Chloroisopropyl)ether	11	U
106-44-5	4-Methylphenol	11	U
621-64-7	N-Nitroso-Di-n-propylamine	11	U
67-72-1	Hexachloroethane	11	U
98-95-3	Nitrobenzene	11	U
78-59-1	Isophorone	11	U
88-75-5	2-Nitrophenol	11	U
105-67-9	2,4-Dimethylphenol	11	U
65-85-0	Benzoic acid	55	U
111-91-1	bis(2-Chloroethoxy)methane	11	U
120-83-2	2,4-Dichlorophenol	11	U
120-82-1	1,2,4-Trichlorobenzene	11	U
91-20-3	Naphthalene	11	U
106-47-8	4-Chloroaniline	11	U
87-68-3	Hexachlorobutadiene	11	U
59-50-7	4-Chloro-3-methylphenol	11	U
91-57-6	2-Methylnaphthalene	11	U
77-47-4	Hexachlorocyclopentadiene	11	U
88-06-2	2,4,6-Trichlorophenol	11	U
95-95-4	2,4,5-Trichlorophenol	55	U
91-58-7	2-Chloronaphthalene	11	U
88-74-4	2-Nitroaniline	55	U
131-11-3	Dimethylphthalate	11	U
208-96-8	Acenaphthylene	11	U
606-20-2	2,6-Dinitrotoluene	11	U

1C
SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

SMC-FB-1220

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER Lab Sample ID: 9012L031-006

Sample wt/vol: 880 (g/mL) ML Lab File ID: L013011

Level: (low/med) LOW Date Received: 12/21/90

% Moisture: not dec. _____ dec. Date Extracted: 12/26/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 01/30/91

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
99-09-2	3-Nitroaniline	55	U
83-32-9	Acenaphthene	11	U
51-28-5	2,4-Dinitrophenol	55	U
100-02-7	4-Nitrophenol	55	U
132-64-9	Dibenzofuran	11	U
121-14-2	2,4-Dinitrotoluene	11	U
84-66-2	Diethylphthalate	11	U
7005-72-3	4-Chlorophenyl-phenylether	11	U
86-73-7	Fluorene	11	U
100-01-6	4-Nitroaniline	55	U
534-52-1	4,6-Dinitro-2-methylphenol	55	U
86-30-6	N-Nitrosodiphenylamine (1)	11	U
101-55-3	4-Bromophenyl-phenylether	11	U
118-74-1	Hexachlorobenzene	11	U
87-86-5	Pentachlorophenol	55	U
85-01-8	Phenanthrene	11	U
120-12-7	Anthracene	11	U
84-74-2	Di-n-Butylphthalate	11	U
206-44-0	Fluoranthene	11	U
129-00-0	Pyrene	11	U
85-68-7	Butylbenzylphthalate	11	U
91-94-1	3,3'-Dichlorobenzidine	22	U
56-55-3	Benzo(a)anthracene	11	U
218-01-9	Chrysene	11	U
117-81-7	bis(2-Ethylhexyl)phthalate	11	U
117-84-0	Di-n-Octyl phthalate	11	U
205-99-2	Benzo(b)fluoranthene	11	U
207-08-9	Benzo(k)fluoranthene	11	U
50-32-8	Benzo(a)pyrene	11	U
193-39-5	Indeno(1,2,3-cd)pyrene	11	U
53-70-3	Dibenzo(a,h)anthracene	11	U
191-24-2	Benzo(g,h,i)perylene	11	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SMC-FB-1220

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

ent: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9012L031-006

Sample wt/vol: 880 (g/mL) ML

Lab File ID: L013011

Level: (low/med) LOW

Date Received: 12/21/90

% Moisture: not dec. _____ dec.

Date Extracted: 12/26/90

Extraction: (SepF/Cont/Sonc) SEPF

Date Analyzed: 01/30/91

GPC Cleanup: (Y/N) N pH: 7.0

Dilution Factor: 1.00

Number TICs found: 1

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	ALKANE	19.98	40	JB

1D
PESTICIDE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

SMC-FB03-01-RA

OC

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9010L385-025

Sample wt/vol: 940 (g/mL) ML

Lab File ID: 12069013.16

Level: (low/med) LOW

Date Received: 10/30/90

% Moisture: not dec. _____ dec.

Date Extracted: 11/06/90

Extraction: (SepF/Cont/Sonc) SEPF

Date Analyzed: 12/06/90

GPC Cleanup: (Y/N) N pH: 7.0

Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
319-84-6	Alpha-BHC	0.053	U
319-85-7	Beta-BHC	0.053	U
319-86-8	Delta-BHC	0.053	U
58-89-9	gamma-BHC (Lindane)	0.053	U
76-44-8	Heptachlor	0.053	U
309-00-2	Aldrin	0.053	U
1024-57-3	Heptachlor epoxide	0.053	U
959-98-8	Endosulfan I	0.053	U
60-57-1	Dieldrin	0.11	U
72-55-9	4,4'-DDE	0.11	U
72-20-8	Endrin	0.11	U
33213-65-9	Endosulfan II	0.11	U
72-54-8	4,4'-DDD	0.11	U
1031-07-8	Endosulfan sulfate	0.11	U
50-29-3	4,4'-DDT	0.11	U
72-43-5	Methoxychlor	0.53	U
53494-70-5	Endrin ketone	0.11	U
5103-71-9	alpha-Chlordane	0.53	U
5103-74-2	gamma-Chlordane	0.53	U
8001-35-2	Toxaphene	1.1	U
12674-11-2	Aroclor-1016	0.53	U
11104-28-2	Aroclor-1221	0.53	U
11141-16-5	Aroclor-1232	0.53	U
53469-21-9	Aroclor-1242	0.53	U
12672-29-6	Aroclor-1248	0.53	U
11097-69-1	Aroclor-1254	1.1	U
11096-82-5	Aroclor-1260	1.1	U

1D
PESTICIDE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

SMC-FB4-1031

030

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER Lab Sample ID: 9011L400-002

Sample wt/vol: 980 (g/mL) ML Lab File ID: 12069013.21

Level: (low/med) LOW Date Received: 10/31/90

% Moisture: not dec. _____ dec. Date Extracted: 11/06/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 12/06/90

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
319-84-6	Alpha-BHC	0.051	U
319-85-7	Beta-BHC	0.051	U
319-86-8	Delta-BHC	0.051	U
58-89-9	gamma-BHC (Lindane)	0.051	U
76-44-8	Heptachlor	0.051	U
309-00-2	Aldrin	0.051	U
1024-57-3	Heptachlor epoxide	0.051	U
959-98-8	Endosulfan I	0.051	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.51	U
53494-70-5	Endrin ketone	0.10	U
5103-71-9	alpha-Chlordane	0.51	U
5103-74-2	gamma-Chlordane	0.51	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.51	U
11104-28-2	Aroclor-1221	0.51	U
11141-16-5	Aroclor-1232	0.51	U
53469-21-9	Aroclor-1242	0.51	U
12672-29-6	Aroclor-1248	0.51	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

1D
PESTICIDE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

SMC-FB-1107

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9011L518-022

Sample wt/vol: 990 (g/mL) ML

Lab File ID: 12209013.17

Level: (low/med) LOW

Date Received: 11/07/90

% Moisture: not dec. _____ dec.

Date Extracted: 11/12/90

Extraction: (SepF/Cont/Sonc) CONT

Date Analyzed: 12/21/90

GPC Cleanup: (Y/N) N pH: 7.0

Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
319-84-6	Alpha-BHC	0.050	U
319-85-7	Beta-BHC	0.050	U
319-86-8	Delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
5103-71-9	alpha-Chlordane	0.50	U
5103-74-2	gamma-Chlordane	0.50	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.50	U
11104-28-2	Aroclor-1221	0.50	U
11141-16-5	Aroclor-1232	0.50	U
53469-21-9	Aroclor-1242	0.50	U
12672-29-6	Aroclor-1248	0.50	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

1D
PESTICIDE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

SMC-FB-1108

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

031

Matrix: WATER Lab Sample ID: 9011L541-039

Sample wt/vol: 990 (g/mL) ML Lab File ID: 12099013.21

Level: (low/med) LOW Date Received: 11/09/90

% Moisture: not dec. _____ dec. Date Extracted: 11/12/90

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 12/10/90

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
319-84-6	Alpha-BHC	0.050	U
319-85-7	Beta-BHC	0.050	U
319-86-8	Delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
5103-71-9	alpha-Chlordane	0.50	U
5103-74-2	gamma-Chlordane	0.50	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.50	U
11104-28-2	Aroclor-1221	0.50	U
11141-16-5	Aroclor-1232	0.50	U
53469-21-9	Aroclor-1242	0.50	U
12672-29-6	Aroclor-1248	0.50	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

1D
PESTICIDE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO. 25

SMC-FB-1114

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER

Lab Sample ID: 9011L633-011

Sample wt/vol: 990 (g/mL) ML

Lab File ID: 12269013.21

Level: (low/med) LOW

Date Received: 11/15/90

% Moisture: not dec. _____ dec.

Date Extracted: 11/19/90

Extraction: (SepF/Cont/Sonc) CONT

Date Analyzed: 12/26/90

GPC Cleanup: (Y/N) N pH: 7.0

Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
319-84-6	Alpha-BHC	0.050	U
319-85-7	Beta-BHC	0.050	U
319-86-8	Delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.091	J
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
5103-71-9	alpha-Chlordane	0.50	U
5103-74-2	gamma-Chlordane	0.50	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.50	U
11104-28-2	Aroclor-1221	0.50	U
11141-16-5	Aroclor-1232	0.50	U
53469-21-9	Aroclor-1242	0.50	U
12672-29-6	Aroclor-1248	0.50	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

1D

PESTICIDE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

SMC-FB-1116

Lab Name: Roy F. Weston, Inc. Work Order: 3486-06-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER Lab Sample ID: 9011L679-004

Sample wt/vol: 990 (g/mL) ML Lab File ID: 12269013.22

Level: (low/med) LOW Date Received: 11/16/90

% Moisture: not dec. _____ dec. Date Extracted: 11/19/90

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 12/26/90

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
319-84-6	Alpha-BHC	0.050	U
319-85-7	Beta-BHC	0.050	U
319-86-8	Delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
5103-71-9	alpha-Chlordane	0.50	U
5103-74-2	gamma-Chlordane	0.50	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.50	U
11104-28-2	Aroclor-1221	0.50	U
11141-16-5	Aroclor-1232	0.50	U
53469-21-9	Aroclor-1242	0.50	U
12672-29-6	Aroclor-1248	0.50	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

1D
PESTICIDE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

SMC-FB-1220

Lab Name: Roy F. Weston, Inc. Work Order: 2724-05-01-0000

Client: TRC/SHIELDALLOY

Matrix: WATER Lab Sample ID: 9012L031-006

Sample wt/vol: 980 (g/mL) ML Lab File ID: 01319113.17

Level: (low/med) LOW Date Received: 12/21/90

% Moisture: not dec. _____ dec. Date Extracted: 12/26/90

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 01/31/91

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
319-84-6	Alpha-BHC	0.051	U
319-85-7	Beta-BHC	0.051	U
319-86-8	Delta-BHC	0.051	U
58-89-9	gamma-BHC (Lindane)	0.051	U
76-44-8	Heptachlor	0.051	U
309-00-2	Aldrin	0.051	U
1024-57-3	Heptachlor epoxide	0.051	U
959-98-8	Endosulfan I	0.051	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.51	U
53494-70-5	Endrin ketone	0.10	U
5103-71-9	alpha-Chlordane	0.51	U
5103-74-2	gamma-Chlordane	0.51	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.51	U
11104-28-2	Aroclor-1221	0.51	U
11141-16-5	Aroclor-1232	0.51	U
53469-21-9	Aroclor-1242	0.51	U
12672-29-6	Aroclor-1248	0.51	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

U.S. EPA - CLP

EPA SAMPLE NO.

1

INORGANIC ANALYSIS DATA SHEET

SMC-FB03-01 RA

Lab Name: WESTON-LIONVILLE Contract: 68-W8-0057

Lab Code: WESTON Case No.: TRC SAS No.: SDG No.: CLP385

Matrix (soil/water): WATER Lab Sample ID: 9010385025

Level (low/med): LOW Date Received: 10/30/90

% 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	113	U		P
7440-36-0	Antimony	22.0	U	N	P
7440-38-2	Arsenic	2.0	U	N	F
7440-39-3	Barium	10.0	U		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	4.0	U		P
7440-70-2	Calcium	130	U		P
7440-47-3	Chromium	4.0	U		P
7440-48-4	Cobalt	7.0	U		P
7440-50-8	Copper	5.4	B		P
7439-89-6	Iron	51.0	U		P
7439-92-1	Lead	3.0	U	N	F
7439-95-4	Magnesium	250	B		P
7439-96-5	Manganese	2.0	U		P
7439-97-6	Mercury	0.20	U	N	CV
7440-02-0	Nickel	10.0	U		P
7440-09-7	Potassium	916	U		P
7782-49-2	Selenium	2.0	U	N	F
7440-22-4	Silver	4.0	U	N	P
7440-23-5	Sodium	625	B		P
7440-28-0	Thallium	4.0	U	N	F
7440-62-2	Vanadium	35.1	B	N	P
7440-66-6	Zinc	8.2	B		P
	Cyanide	10.0	U		C

olor Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

omments:

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 02/15/91

CLIENT: TRC/SHIELDALLOY
WORK ORDER: 2724-05-01-0000

WESTON BATCH #: 9010L385

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-025	SMC-FB03-01-RA	Silver, Total	10.0	u	UG/L	10.0
		Aluminum, Total	200	u	UG/L	200
		Arsenic, Total	10.0	u	UG/L	10.0
		Boron, Total	100	u	UG/L	100
		Barium, Total	200	u	UG/L	200
		Beryllium, Total	5.0	u	UG/L	5.0
		Calcium, Total	5000	u	UG/L	5000
		Cadmium, Total	5.0	u	UG/L	5.0
		Cobalt, Total	50.0	u	UG/L	50.0
		Chromium, Total	10.0	u	UG/L	10.0
		Copper, Total	25.0	u	UG/L	25.0
		Iron, Total	100	u	UG/L	100
		Mercury, Total	0.20	u	UG/L	0.20
		Potassium, Total	5000	u	UG/L	5000
		Magnesium, Total	5000	u	UG/L	5000
		Manganese, Total	15.0	u	UG/L	15.0
		Sodium, Total	5000	u	UG/L	5000
		Niobium, Total	200	u	UG/L	200
		Nickel, Total	40.0	u	UG/L	40.0
		Lead, Total	3.0	u	UG/L	3.0
		Antimony, Total	60.0	u	UG/L	60.0
		Selenium, Total	5.0	u	UG/L	5.0
		Strontium, Total	100	u	UG/L	100
		Titanium, Total	100	u	UG/L	100
		Thallium, Total	10.0	u	UG/L	10.0
		Vanadium, Total	50.0	u	UG/L	50.0
		Zinc, Total	20.0	u	UG/L	20.0

U.S. EPA - CLP

EPA SAMPLE NO.

1

INORGANIC ANALYSIS DATA SHEET

SMC-FB4 -1031

Lab Name: WESTON-LIONVILLE Contract: 68-W8-0057

Lab Code: WESTON Case No.: TRC SAS No.: SDG No.: CLP400

Matrix (soil/water): WATER Lab Sample ID: 9011400002

Level (low/med): LOW Date Received: 10/31/90

% 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	113	U	N	P
7440-36-0	Antimony	22.0	U		P
7440-38-2	Arsenic	2.0	U	N	F
7440-39-3	Barium	10.0	U		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	4.0	U		P
7440-70-2	Calcium	130	U		P
7440-47-3	Chromium	4.0	U		P
7440-48-4	Cobalt	7.0	U		P
7440-50-8	Copper	5.0	U		P
7439-89-6	Iron	51.0	U		P
7439-92-1	Lead	3.1	B	N*	F
7439-95-4	Magnesium	108	U		P
7439-96-5	Manganese	3.1	B		P
7439-97-6	Mercury	0.20	U	*	CV
7440-02-0	Nickel	10.0	U		P
7440-09-7	Potassium	916	U		P
7782-49-2	Selenium	2.0	U	NW	F
7440-22-4	Silver	4.0	U	N	P
7440-23-5	Sodium	129	B		P
7440-28-0	Thallium	4.0	U	NW	F
7440-62-2	Vanadium	7.0	B		P
7440-66-6	Zinc	26.5		E	P
	Cyanide	10.0	U		C

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 12/21/90

CLIENT: TRC/SHIELDALLOY
WORK ORDER: 2724-05-01-0000

WESTON BATCH #: 9011L400

SAMPLE	SITE ID	ANALYTE	RESULT	UNITS	REPORTING LIMIT
-002	SMC-FB4-1031	Cyanide, Total	10.0 u	UG/L	10.0
		Chromium VI	0.020u	MG/L	0.0
		Fluoride	0.10 u	MG/L	0.1
		Sulfate	5.0 u	MG/L	5.0

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 02/15/91

CLIENT: TRC/SHIELDALLOY
WORK ORDER: 2724-05-01-0000

WESTON BATCH #: 9011L400

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-002	SMC-FB4-1031	Iron, Total	100	u	UG/L	100
		Mercury, Total	0.20	u	UG/L	0.20
		Potassium, Total	5000	u	UG/L	5000
		Magnesium, Total	5000	u	UG/L	5000
		Manganese, Total	15.0	u	UG/L	15.0
		Sodium, Total	5000	u	UG/L	5000
		Niobium, Total	200	u	UG/L	200
		Nickel, Total	40.0	u	UG/L	40.0
		Lead, Total	3.1		UG/L	3.0
		Antimony, Total	60.0	u	UG/L	60.0
		Selenium, Total	5.0	u	UG/L	5.0
		Strontium, Total	100	u	UG/L	100
		Titanium, Total	100	u	UG/L	100
		Thallium, Total	10.0	u	UG/L	10.0
		Vanadium, Total	50.0	u	UG/L	50.0
		Zinc, Total	26.5		UG/L	20.0
		Zirconium, Total	200	u	UG/L	200
-002	SMC-FB4-1031	Silver, Total	10.0	u	UG/L	10.0
		Aluminum, Total	200	u	UG/L	200
		Arsenic, Total	10.0	u	UG/L	10.0
		Boron, Total	100	u	UG/L	100
		Barium, Total	200	u	UG/L	200
		Beryllium, Total	5.0	u	UG/L	5.0
		Calcium, Total	5000	u	UG/L	5000
		Cadmium, Total	5.0	u	UG/L	5.0
		Cobalt, Total	50.0	u	UG/L	50.0
		Chromium, Total	10.0	u	UG/L	10.0
		Copper, Total	25.0	u	UG/L	25.0

U.S. EPA - CLP

EPA SAMPLE NO.

1

INORGANIC ANALYSIS DATA SHEET

Lab Name: WESTON-LIONVILLE Contract: 68-W8-0057

Lab Code: WESTON Case No.: TRC SAS No.: SDG No.: CLP494

Matrix (soil/water): WATER Lab Sample ID: 9011494021

Level (low/med): LOW Date Received: 11/06/90

% 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	113	U		P
7440-36-0	Antimony	22.0	U		P
7440-38-2	Arsenic	2.0	U		F
7440-39-3	Barium	10.0	U		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	4.0	U		P
7440-70-2	Calcium	130	U		P
7440-47-3	Chromium	4.0	U		P
7440-48-4	Cobalt	7.0	U		P
7440-50-8	Copper	5.0	U		P
7439-89-6	Iron	384			P
7439-92-1	Lead	3.0	U		F
7439-95-4	Magnesium	108	U		P
7439-96-5	Manganese	13.9	B		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	10.0	U		P
7440-09-7	Potassium	916	U		P
7782-49-2	Selenium	2.0	U	W	F
7440-22-4	Silver	4.0	U		P
7440-23-5	Sodium	205	B		P
7440-28-0	Thallium	4.0	U		F
7440-62-2	Vanadium	14.0	B		P
7440-66-6	Zinc	33.2			P
	Cyanide				

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 02/15/91

CLIENT: TRC/SHIELDALLOY
WORK ORDER: 2724-05-01-0000

WESTON BATCH #: 9011L494

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-021	SMC-FB-1106	Iron, Total	384		UG/L	100
		Mercury, Total	0.20	u	UG/L	0.20
		Potassium, Total	5000	u	UG/L	5000
		Magnesium, Total	5000	u	UG/L	5000
		Manganese, Total	15.0	u	UG/L	15.0
		Sodium, Total	5000	u	UG/L	5000
		Nickel, Total	40.0	u	UG/L	40.0
		Lead, Total	3.0	u	UG/L	3.0
		Antimony, Total	60.0	u	UG/L	60.0
		Selenium, Total	5.0	u	UG/L	5.0
		Strontium, Total	100	u	UG/L	100
		Titanium, Total	100	u	UG/L	100
		Thallium, Total	10.0	u	UG/L	10.0
		Vanadium, Total	50.0	u	UG/L	50.0
		Zinc, Total	33.2		UG/L	20.0
		Zirconium, Total	200	u	UG/L	200
-021	SMC-FB-1106	Silver, Total	10.0	u	UG/L	10.0
		Aluminum, Total	200	u	UG/L	200
		Arsenic, Total	10.0	u	UG/L	10.0
		Boron, Total	100	u	UG/L	100
		Barium, Total	200	u	UG/L	200
		Beryllium, Total	5.0	u	UG/L	5.0
		Calcium, Total	5000	u	UG/L	5000
		Cadmium, Total	5.0	u	UG/L	5.0
		Cobalt, Total	50.0	u	UG/L	50.0
		Chromium, Total	10.0	u	UG/L	10.0
		Copper, Total	25.0	u	UG/L	25.0

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 02/15/91

CLIENT: TRC/SHIELDALLOY
WORK ORDER: 2724-05-01-0000

WESTON BATCH #: 9011L494

SAMPLE	SITE ID	ANALYTE	RESULT	UNITS	REPORTING LIMIT
-021	SMC-FB-1106	Chromium VI	0.020u	MG/L	0.020
		Sulfate	5.0 u	MG/L	5.0

U.S. EPA - CLP

EPA SAMPLE NO.

1

INORGANIC ANALYSIS DATA SHEET

SMC-FB-1107

Lab Name: WESTON-LIONVILLE Contract: 68-W8-0057

Lab Code: WESTON Case No.: TRC SAS No.: SDG No.: CLP518

Matrix (soil/water): WATER Lab Sample ID: 9011518022

Level (low/med): LOW Date Received: 11/07/90

% 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	113	U		P
7440-36-0	Antimony	22.0	U		P
7440-38-2	Arsenic	2.0	U		F
7440-39-3	Barium	10.0	U		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	4.0	U		P
7440-70-2	Calcium	130	U		P
7440-47-3	Chromium	4.0	U		P
7440-48-4	Cobalt	7.0	U		P
7440-50-8	Copper	5.0	U		P
7439-89-6	Iron	51.0	U		P
7439-92-1	Lead	3.0	U		F
7439-95-4	Magnesium	108	U		P
7439-96-5	Manganese	3.5	B		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	10.0	U		P
7440-09-7	Potassium	916	U		P
7782-49-2	Selenium	2.0	U	S	F
7440-22-4	Silver	4.0	U		P
7440-23-5	Sodium	139	B		P
7440-28-0	Thallium	4.0	U		F
7440-62-2	Vanadium	7.0	B		P
7440-66-6	Zinc	14.8	B		P
	Cyanide				

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 02/15/91

CLIENT: TRC/SHIELDALLOY
WORK ORDER: 2724-05-01-0000

WESTON BATCH #: 9011L518

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-022	SMC-FB-1107	Manganese, Total	15.0	u	UG/L	15.0
		Sodium, Total	5000	u	UG/L	5000
		Niobium, Total	200	u	UG/L	200
		Nickel, Total	40.0	u	UG/L	40.0
		Lead, Total	3.0	u	UG/L	3.0
		Antimony, Total	60.0	u	UG/L	60.0
		Selenium, Total	5.0	u	UG/L	5.0
		Strontium, Total	100	u	UG/L	100
		Titanium, Total	100	u	UG/L	100
		Thallium, Total	10.0	u	UG/L	10.0
		Vanadium, Total	50.0	u	UG/L	50.0
		Zinc, Total	20.0	u	UG/L	20.0
		Zirconium, Total	200	u	UG/L	200
022	SMC-FB-1107	Silver, Total	10.0	u	UG/L	10.0
		Aluminum, Total	200	u	UG/L	200
		Arsenic, Total	10.0	u	UG/L	10.0
		Boron, Total	100	u	UG/L	100
		Barium, Total	200	u	UG/L	200
		Beryllium, Total	5.0	u	UG/L	5.0
		Calcium, Total	5000	u	UG/L	5000
		Cadmium, Total	5.0	u	UG/L	5.0
		Cobalt, Total	50.0	u	UG/L	50.0
		Chromium, Total	10.0	u	UG/L	10.0
		Copper, Total	25.0	u	UG/L	25.0
		Iron, Total	100	u	UG/L	100
		Mercury, Total	0.20	u	UG/L	0.20
		Potassium, Total	5000	u	UG/L	5000
		Magnesium, Total	5000	u	UG/L	5000

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 02/15/91

CLIENT: TRC/SHIELDALLOY
WORK ORDER: 2724-05-01-0000

WESTON BATCH #: 9011L518

SAMPLE	SITE ID	ANALYTE	RESULT	UNITS	REPORTING LIMIT
-022	SMC-FB-1107	Chromium VI	0.020u	MG/L	0.02

U.S. EPA - CLP

EPA SAMPLE NO.

1

INORGANIC ANALYSIS DATA SHEET

SMC-FB-1108

Lab Name: WESTON-LIONVILLE Contract: 68-W8-0057

Lab Code: WESTON Case No.: TRC SAS No.: SDG No.: CLP541

Matrix (soil/water): WATER Lab Sample ID: 9011541039

Level (low/med): LOW Date Received: 11/09/90

% 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	113	U	*	P
7440-36-0	Antimony	22.0	U	N	P
7440-38-2	Arsenic	2.0	U	N	F
7440-39-3	Barium	10.0	U		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	4.0	U		P
7440-70-2	Calcium	309	B	*	P
7440-47-3	Chromium	4.0	U	N	P
7440-48-4	Cobalt	7.0	U		P
7440-50-8	Copper	6.2	B	N	P
7439-89-6	Iron	981			P
7439-92-1	Lead	3.0	U	W*	F
7439-95-4	Magnesium	108	U	*	P
7439-96-5	Manganese	44.1		E*	P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	10.0	U		P
7440-09-7	Potassium	916	U		P
7782-49-2	Selenium	2.0	U		F
7440-22-4	Silver	4.0	U	N	P
7440-23-5	Sodium	421	B		P
7440-28-0	Thallium	4.0	U	NW	F
7440-62-2	Vanadium	6.0	U	EN*	P
7440-66-6	Zinc	4.6	B	E*	P
	Cyanide				

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 02/15/91

CLIENT: TRC/SHIELDALLOY
WORK ORDER: 2724-05-01-0000

WESTON BATCH #: 9011L541

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-039	SMC-FB-1108	Iron, Total	981		UG/L	100
		Mercury, Total	0.20	u	UG/L	0.20
		Potassium, Total	5000	u	UG/L	5000
		Magnesium, Total	5000	u	UG/L	5000
		Manganese, Total	44.1		UG/L	15.0
		Sodium, Total	5000	u	UG/L	5000
		Niobium, Total	200	u	UG/L	200
		Nickel, Total	40.0	u	UG/L	40.0
		Lead, Total	3.0	u	UG/L	3.0
		Antimony, Total	60.0	u	UG/L	60.0
		Selenium, Total	5.0	u	UG/L	5.0
		Strontium, Total	100	u	UG/L	100
		Titanium, Total	100	u	UG/L	100
		Thallium, Total	10.0	u	UG/L	10.0
		Vanadium, Total	50.0	u	UG/L	50.0
		Zinc, Total	20.0	u	UG/L	20.0
		Zirconium, Total	200	u	UG/L	200
-039	SMC-FB-1108	Silver, Total	10.0	u	UG/L	10.0
		Aluminum, Total	200	u	UG/L	200
		Arsenic, Total	10.0	u	UG/L	10.0
		Boron, Total	112		UG/L	100
		Barium, Total	200	u	UG/L	200
		Beryllium, Total	5.0	u	UG/L	5.0
		Calcium, Total	5000	u	UG/L	5000
		Cadmium, Total	5.0	u	UG/L	5.0
		Cobalt, Total	50.0	u	UG/L	50.0
		Chromium, Total	10.0	u	UG/L	10.0
		Copper, Total	25.0	u	UG/L	25.0

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 02/15/91

CLIENT: TRC/SHIELDALLOY
WORK ORDER: 2724-05-01-0000

WESTON BATCH #: 9011L541

SAMPLE	SITE ID	ANALYTE	RESULT	UNITS	REPORTING LIMIT
-039	SMC-FB-1108	Chromium VI	0.020u	MG/L	0.020

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

055

SMC FB-1109

Lab Name: WESTON-LIONVILLE Contract: 68-W8-0057

Lab Code: WESTON Case No.: TRC SAS No.: SDG No.: CLP562

Matrix (soil/water): WATER Lab Sample ID: 9011562001

Level (low/med): LOW Date Received: 11/09/90

% 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	113	U		P
7440-36-0	Antimony	22.0	U		P
7440-38-2	Arsenic	2.0	U	W	F
7440-39-3	Barium	10.0	U		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	4.0	U		P
7440-70-2	Calcium	197	B		P
7440-47-3	Chromium	4.0	U		P
7440-48-4	Cobalt	7.0	U		P
7440-50-8	Copper	5.0	U		P
7439-89-6	Iron	445			P
7439-92-1	Lead	3.0	U		F
7439-95-4	Magnesium	188	B		P
7439-96-5	Manganese	9.5	B		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	10.0	U		P
7440-09-7	Potassium	916	U		P
7782-49-2	Selenium	2.0	U		F
7440-22-4	Silver	4.0	U		P
7440-23-5	Sodium	463	B		P
7440-28-0	Thallium	4.0	U		F
7440-62-2	Vanadium	27.2	B		P
7440-66-6	Zinc	5.9	B		P
	Cyanide				

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 02/15/91

CLIENT: TRC/SHIELDALLOY
WORK ORDER: 2724-05-01-0000

WESTON BATCH #: 9011L562

SAMPLE	SITE ID	ANALYTE	RESULT	UNITS	REPORTING LIMIT
-001	SMC-FB-1109	Chromium VI	0.020u	MG/L	0.020

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 02/15/91

CLIENT: TRC/SHIELDALLOY
WORK ORDER: 2724-05-01-0000

WESTON BATCH #: 9011L562

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-01	SMC-FB-1109	Silver, Total	10.0	u	UG/L	10.0
		Aluminum, Total	200	u	UG/L	200
		Arsenic, Total	10.0	u	UG/L	10.0
		Boron, Total	100	u	UG/L	100
		Barium, Total	200	u	UG/L	200
		Beryllium, Total	5.0	u	UG/L	5.0
		Calcium, Total	5000	u	UG/L	5000
		Cadmium, Total	5.0	u	UG/L	5.0
		Cobalt, Total	50.0	u	UG/L	50.0
		Chromium, Total	10.0	u	UG/L	10.0
		Copper, Total	25.0	u	UG/L	25.0
		Iron, Total	445		UG/L	100
		Mercury, Total	0.20	u	UG/L	0.20
		Potassium, Total	5000	u	UG/L	5000
		Magnesium, Total	5000	u	UG/L	5000
		Manganese, Total	15.0	u	UG/L	15.0
		Sodium, Total	5000	u	UG/L	5000
		Niobium, Total	200	u	UG/L	200
		Nickel, Total	40.0	u	UG/L	40.0
		Lead, Total	3.0	u	UG/L	3.0
		Antimony, Total	60.0	u	UG/L	60.0
		Selenium, Total	5.0	u	UG/L	5.0
		Strontium, Total	100	u	UG/L	100
		Titanium, Total	100	u	UG/L	100
		Thallium, Total	10.0	u	UG/L	10.0
		Vanadium, Total	50.0	u	UG/L	50.0
		Zinc, Total	20.0	u	UG/L	20.0

U.S. EPA - CLP

EPA SAMPLE NO

1

INORGANIC ANALYSIS DATA SHEET

SMC F8 1112

Lab Name: WESTON-LIONVILLE Contract: 2221-04-01

Lab Code: WESTON Case No.: TRC SAS No.: SDG No.: CLP59

Matrix (soil/water): WATER Lab Sample ID: 901159501

Level (low/med): LOW Date Received: 11/13/90

% 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	124	U		P
7440-36-0	Antimony	20.4	U		P
7440-38-2	Arsenic	2.0	U		F
7440-39-3	Barium	3.9	U		P
7440-41-7	Beryllium	0.30	U		P
7440-43-9	Cadmium	3.2	U		P
7440-70-2	Calcium	257	B		P
7440-47-3	Chromium	2.9	U		P
7440-48-4	Cobalt	4.7	U		P
7440-50-8	Copper	8.5	B		P
7439-89-6	Iron	1700			P
7439-92-1	Lead	3.0	U		F
7439-95-4	Magnesium	89.1	U		P
7439-96-5	Manganese	23.4			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	7.7	U		P
7440-09-7	Potassium	815	U		P
7782-49-2	Selenium	2.0	U		F
7440-22-4	Silver	11.4	U		P
7440-23-5	Sodium	84.1	U		P
7440-28-0	Thallium	4.0	U		F
7440-62-2	Vanadium	3.7	U		P
7440-66-6	Zinc	5.5	B		P
	Cyanide				

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 02/04/91

CLIENT: TRC/SHIELDALLOY
WORK ORDER: 2724-05-01-0000

WESTON BATCH #: 9011L595

SAMPLE	SITE ID	ANALYTE	RESULT	UNITS	REPORTING LIMIT
-011	SMC-FB-1112	Chromium VI	0.020u	MG/L	0.

U.S. EPA - CLP

EPA SAMPLE NO.

1

INORGANIC ANALYSIS DATA SHEET

SMC-FB-114

Lab Name: WESTON-LIONVILLE Contract: 68-W8-0057

Lab Code: WESTON Case No.: TRC SAS No.: SDG No.: CLP63

Matrix (soil/water): WATER Lab Sample ID: 901163301

Level (low/med): LOW Date Received: 11/15/90

% 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	113	U		P
7440-36-0	Antimony	22.0	U		P
7440-38-2	Arsenic	2.0	U		F
7440-39-3	Barium	10.0	U		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	4.0	U		P
7440-70-2	Calcium	162	B		P
7440-47-3	Chromium	4.0	U		P
7440-48-4	Cobalt	7.0	U		P
7440-50-8	Copper	5.0	U		P
7439-89-6	Iron	303			P
7439-92-1	Lead	3.0	U		F
7439-95-4	Magnesium	108	U		P
7439-96-5	Manganese	9.4	B		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	10.0	U		P
7440-09-7	Potassium	916	U		P
7782-49-2	Selenium	2.4	B	W	F
7440-22-4	Silver	4.0	U		P
7440-23-5	Sodium	98.1	B		P
7440-28-0	Thallium	4.0	U		F
7440-62-2	Vanadium	6.0	U		P
7440-66-6	Zinc	7.1	B		P
	Cyanide				

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 02/15/91

CLIENT: TRC/SHIELDALLOY
WORK ORDER: 2724-05-01-0000

WESTON BATCH #: 9011L633

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-011	SMC-FB-1114	Silver, Total	10.0	u	UG/L	10.0
		Aluminum, Total	200	u	UG/L	200
		Arsenic, Total	10.0	u	UG/L	10.0
		Boron, Total	100	u	UG/L	100
		Barium, Total	200	u	UG/L	200
		Beryllium, Total	5.0	u	UG/L	5.0
		Calcium, Total	5000	u	UG/L	5000
		Cadmium, Total	5.0	u	UG/L	5.0
		Cobalt, Total	50.0	u	UG/L	50.0
		Chromium, Total	10.0	u	UG/L	10.0
		Copper, Total	25.0	u	UG/L	25.0
		Iron, Total	303		UG/L	100
		Mercury, Total	0.25	u	UG/L	0.25
		Potassium, Total	5000	u	UG/L	5000
		Magnesium, Total	5000	u	UG/L	5000
		Manganese, Total	15.0	u	UG/L	15.0
		Sodium, Total	5000	u	UG/L	5000
		Niobium, Total	200	u	UG/L	200
		Nickel, Total	40.0	u	UG/L	40.0
		Lead, Total	3.0	u	UG/L	3.0
		Antimony, Total	60.0	u	UG/L	60.0
		Selenium, Total	5.0	u	UG/L	5.0
		Strontium, Total	100	u	UG/L	100
		Titanium, Total	100	u	UG/L	100
		Thallium, Total	10.0	u	UG/L	10.0
		Vanadium, Total	50.0	u	UG/L	50.0
		Zinc, Total	20.0	u	UG/L	20.0
		Zirconium, Total	200	u	UG/L	200

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 02/15/91

CLIENT: TRC/SHIELDALLOY
WORK ORDER: 2724-05-01-0000

WESTON BATCH #: 9011L633

SAMPLE	SITE ID	ANALYTE	RESULT	UNITS	REPORTING LIMIT
-011	SMC-FB-1114	Chromium VI	0.020u	MG/L	0.020

U.S. EPA - CLP

EPA SAMPLE NO.

1

INORGANIC ANALYSIS DATA SHEET

SMC FB 1116

Lab Name: WESTON-LIONVILLE Contract: 68-W8-0057

Lab Code: WESTON Case No.: TRC SAS No.: SDG No.: CLP679

Matrix (soil/water): WATER Lab Sample ID: 9011679004

Level (low/med): LOW Date Received: 11/16/90

% 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	113	U		P
7440-36-0	Antimony	22.0	U		P
7440-38-2	Arsenic	2.0	U		F
7440-39-3	Barium	10.0	U		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	4.0	U		P
7440-70-2	Calcium	130	U		P
7440-47-3	Chromium	4.0	U		P
7440-48-4	Cobalt	7.0	U		P
7440-50-8	Copper	5.0	U		P
7439-89-6	Iron	690			P
7439-92-1	Lead	3.0	U		F
7439-95-4	Magnesium	300	B		P
7439-96-5	Manganese	16.4			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	10.0	U		P
7440-09-7	Potassium	916	U		P
7782-49-2	Selenium	2.0	U		F
7440-22-4	Silver	4.0	U		P
7440-23-5	Sodium	453	B		P
7440-28-0	Thallium	4.0	U		F
7440-62-2	Vanadium	28.2	B		P
7440-66-6	Zinc	8.8	B		P
	Cyanide	10.0	U		C

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 02/15/91

CLIENT: TRC/SHIELDALLOY
WORK ORDER: 3486-06-01-0000

WESTON BATCH #: 9011L679

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-004	SMC-FB-1116	Silver, Total	10.0	u	UG/L	10.0
		Aluminum, Total	200	u	UG/L	200
		Arsenic, Total	10.0	u	UG/L	10.0
		Boron, Total	100	u	UG/L	100
		Barium, Total	200	u	UG/L	200
		Beryllium, Total	5.0	u	UG/L	5.0
		Calcium, Total	5000	u	UG/L	5000
		Cadmium, Total	5.0	u	UG/L	5.0
		Cobalt, Total	50.0	u	UG/L	50.0
		Chromium, Total	10.0	u	UG/L	10.0
		Copper, Total	25.0	u	UG/L	25.0
		Iron, Total	690		UG/L	100
		Mercury, Total	0.25	u	UG/L	0.25
		Potassium, Total	5000	u	UG/L	5000
		Magnesium, Total	5000	u	UG/L	5000
		Manganese, Total	16.4		UG/L	15.0
		Sodium, Total	5000	u	UG/L	5000
		Niobium, Total	200	u	UG/L	200
		Nickel, Total	40.0	u	UG/L	40.0
		Lead, Total	3.0	u	UG/L	3.0
		Antimony, Total	60.0	u	UG/L	60.0
		Selenium, Total	5.0	u	UG/L	5.0
		Strontium, Total	100	u	UG/L	100
		Titanium, Total	100	u	UG/L	100
		Thallium, Total	10.0	u	UG/L	10.0
		Vanadium, Total	50.0	u	UG/L	50.0
		Zinc, Total	20.0	u	UG/L	20.0
		Zirconium, Total	200	u	UG/L	200

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 02/07/91

CLIENT: TRC/SHIELDALLOY
WORK ORDER: 3486-06-01-0000

WESTON BATCH #: 9011L679

SAMPLE	SITE ID	ANALYTE	RESULT	UNITS	REPORTING LIMIT
-004	SMC-FB-1116	Cyanide, Total	10.0 u	UG/L	10.0
		Chromium VI	0.020u	MG/L	0.020

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 04/05/91

CLIENT: TRC/SHIELDALLOY
WORK ORDER: 2724-05-01-0000

WESTON BATCH #: 9012L002

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-014	SMC-FB-1218	Silver, Total	10.0	u	UG/L	10.0
		Aluminum, Total	200	u	UG/L	200
		Arsenic, Total	10.0	u	UG/L	10.0
		Barium, Total	200	u	UG/L	200
		Beryllium, Total	5.0	u	UG/L	5.0
		Calcium, Total	5000	u	UG/L	5000
		Cadmium, Total	5.0	u	UG/L	5.0
		Cobalt, Total	50.0	u	UG/L	50.0
		Chromium, Total	10.0	u	UG/L	10.0
		Copper, Total	25.0	u	UG/L	25.0
		Iron, Total	100	u	UG/L	100
		Mercury, Total	0.25	u	UG/L	0.25
		Potassium, Total	5000	u	UG/L	5000
		Magnesium, Total	5000	u	UG/L	5000
		Manganese, Total	15.0	u	UG/L	15.0
		Sodium, Total	5000	u	UG/L	5000
		Nickel, Total	40.0	u	UG/L	40.0
		Lead, Total	3.0	u	UG/L	3.0
		Antimony, Total	60.0	u	UG/L	60.0
		Selenium, Total	5.0	u	UG/L	5.0
		Silicon, Total	215		UG/L	100
		Thallium, Total	10.0	u	UG/L	10.0
		Vanadium, Total	50.0	u	UG/L	50.0
		Zinc, Total	20.0	u	UG/L	20.0

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 04/12/91

CLIENT: TRC/SHIELDALLOY
WORK ORDER: 2724-05-01-0000

WESTON BATCH #: 9012L015

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-014	SMC-FB-1219	Silver, Total	10.0	u	UG/L	10.0
		Aluminum, Total	200	u	UG/L	200
		Arsenic, Total	10.0	u	UG/L	10.0
		Boron, Total	100	u	UG/L	100
		Barium, Total	200	u	UG/L	200
		Beryllium, Total	5.0	u	UG/L	5.0
		Calcium, Total	5000	u	UG/L	5000.
		Cadmium, Total	5.0	u	UG/L	5.0
		Cobalt, Total	50.0	u	UG/L	50.0
		Chromium, Total	10.0	u	UG/L	10.0
		Copper, Total	25.0	u	UG/L	25.0
		Iron, Total	100	u	UG/L	100
		Mercury, Total	0.25	u	UG/L	0.25
		Potassium, Total	5000	u	UG/L	5000
		Magnesium, Total	5000	u	UG/L	5000
		Manganese, Total	15.0	u	UG/L	15.0
		Sodium, Total	5000	u	UG/L	5000
		Niobium, Total	200	u	UG/L	200
		Nickel, Total	40.0	u	UG/L	40.0
		Lead, Total	3.0	u	UG/L	3.0
		Antimony, Total	60.0	u	UG/L	60.0
		Selenium, Total	5.0	u	UG/L	5.0
		Silicon, Total	144		UG/L	100
		Strontium, Total	100	u	UG/L	100
		Titanium, Total	100	u	UG/L	100
		Thallium, Total	10.0	u	UG/L	10.0
		Vanadium, Total	50.0	u	UG/L	50.0
		Zinc, Total	20.0	u	UG/L	20.0
		Zirconium, Total	200	u	UG/L	200

ROY F. WESTON, INC.
Lionville Laboratory

Client: TRC/SHIELDALLOY
RFW # : 9011L541 (PETROLEUM HYDROCARBONS)
W.O. #: 2724-05-01-0000

U = Indicates that the compound was analyzed for but not detected. The detection limit for the sample (not the method detection limit) is reported with U (e.g., 10u).
J = Indicates an estimated value. This flag is used in cases where a target analyte is detected at a level less than the lower quantification level. If the limit of quantification is 10mg/L and a concentration of 3mg/L is calculated, it is reported as 3J.
NA = Not Applicable. NR = Not Required.
NC = Not calculable, results below detection limit.

The method used for the analysis of petroleum hydrocarbons is EPA Method 418.1 (USEPA 600/4-79-020). Solid samples are extracted using Method 9071 (USEPA SW846) then analyzed by EPA Method 418.1.

The following is a summary of the QC results accompanying these sample results and a description of any problems encountered during their analysis:

- Blank was free of contamination.
- Blank spike recoveries were within laboratory control limits.

Samples received : 11/09/90
Date of Extraction: 11/12/90
Date Of Analysis : 11/16/90

for J. Michael Taylor
Project Director
Lionville Analytical Laboratory

11/16/90
DATE

Roy F. Weston, Inc. - Lionville Laboratory
Petroleum Hydrocarbons by IR

RFW Batch Number: 9011L541 Client: TRC/SHIELDALLOY Work Order: 2724-05-01-0000 Report Date: 11/16/90 16:55 Page: 1

	Cust ID:	SMC-FB-1108	PBLK	PBLK BS	PBLK BS	PBLK BS
Sample Information	RFW#:	039	90DHC358-MB1	90DHC358-MB1	90DHC358-MB2	90DHC358-MB3
	Matrix:	WATER	WATER	WATER	WATER	WATER
	D.F.:	1.00	1.00	1.00	1.00	2.00
	Units:	mg/L	mg/L	mg/L	mg/L	mg/L
Petroleum Hydrocarbon		1.0 U	1.0 U	85 %	88 %	90 %

U= Analyzed, not detected. J= Present below detection limit. B= Present in blank. NR= Not requested. NS= Not spiked.
%= Percent recovery. D= Diluted out. I= Interference. NA= Not Applicable. *= Outside of EPA CLP QC