SDMS Document ID
1012913

CSF CHAIN OF CUSTODY FORM
U.S. Environmental Protection Agency - Region 8
Environmental Services Division, Multi-Media Branch
Analytical Operations Section

Audit Number: 08-266-05
Case Number: 34642
Date CSF Received: 11/3/05
Site Name: Rico Argentine
Auditor: Carol Beard
Lab Name: SENTIN
Date of Audit: 11/29/05
SDG Number: MHIG13

Date of Transfer: 11/30/05
Comments:
Transfer to: Dale Nitt
Affiliation: EPA
Transfer from (AOS): RSCL

	Date	Signature
CSF Relinquished By: Carol Beard (Print Name)	11/30/05	Carol Beard
CSF Received By: Kenton J. Alexander (Print Name)	11/30/05	[illegible]
CSF Relinquished By: Kenton J. Alexander (Print Name)	12/1/05	[illegible]
CSF Received By: Lisa Tyson (Print Name)	12/1/05	[illegible]
CSF Relinquished By: Lisa Tyson (Print Name)	12/14/05	[illegible]
CSF Received By: Kenton J. Alexander (Print Name)	12/14/05	[illegible]

AUDIT NUMBER: 08-266-05 MH1613

CSF Relinquished By:

Print Name	Date	Signature
Kenton J. Alexander	5/15/06	

CSF Received By:

Print Name	Date	Signature
	5/15/06	

CSF Relinquished By:

Print Name	Date	Signature

CSF Received By:

Print Name	Date	Signature

CSF Relinquished By:

Print Name	Date	Signature

CSF Received By:

Print Name	Date	Signature

CSF Relinquished By:

Print Name	Date	Signature

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Print Name	Date	Signature

CSF Relinquished By:

Print Name	Date	Signature

CSF Received By:

Print Name	Date	Signature

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MH1G13

Lab Name: Sentinel, Inc. Contract: 68-W-02-060

Lab Code: SENTIN Case No.: 34642 NRAS No.: SDG No.: MH1G13

Matrix: (soil/water) WATER Lab Sample ID: 16364

Level: (low/med) LOW Date Received: 10/20/2005

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony	2.0	U		MS
7440-38-2	Arsenic	0.20	J		MS
7440-39-3	Barium	115		E	MS
7440-41-7	Beryllium	1.0	U		MS
7440-43-9	Cadmium	0.16	J		MS
7440-70-2	Calcium				NR
7440-47-3	Chromium	0.18	J		MS
7440-48-4	Cobalt	0.052	J		MS
7440-50-8	Copper	0.90	J		MS
7439-89-6	Iron				NR
7439-92-1	Lead	0.14	J		MS
7439-95-4	Magnesium				NR
7439-96-5	Manganese	25.6		E	MS
7439-97-6	Mercury				NR
7440-02-0	Nickel	0.90	J		MS
7440-09-7	Potassium				NR
7782-49-2	Selenium	5.0	U		MS
7440-22-4	Silver	1.0	U		MS
7440-23-5	Sodium				NR
7440-28-0	Thallium	1.0	U		MS
7440-62-2	Vanadium	0.37	J		MS
7440-66-6	Zinc	25.0		E	MS
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MH1G15

Lab Name: Sentinel, Inc. Contract: 68-W-02-060

Lab Code: SENTIN Case No.: 34642 NRAS No.: SDG No.: MH1G13

Matrix: (soil/water) WATER Lab Sample ID: 16365

Level: (low/med) LOW Date Received: 10/20/2005

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony	2.0	U		MS
7440-38-2	Arsenic	1.0	U		MS
7440-39-3	Barium	74.8		E	MS
7440-41-7	Beryllium	1.0	U		MS
7440-43-9	Cadmium	0.47	J		MS
7440-70-2	Calcium				NR
7440-47-3	Chromium	0.22	J		MS
7440-48-4	Cobalt	0.18	J		MS
7440-50-8	Copper	0.94	J		MS
7439-89-6	Iron				NR
7439-92-1	Lead	0.26	J		MS
7439-95-4	Magnesium				NR
7439-96-5	Manganese	128		E	MS
7439-97-6	Mercury				NR
7440-02-0	Nickel	1.1			MS
7440-09-7	Potassium				NR
7782-49-2	Selenium	5.0	U		MS
7440-22-4	Silver	1.0	U		MS
7440-23-5	Sodium				NR
7440-28-0	Thallium	1.0	U		MS
7440-62-2	Vanadium	0.13	J		MS
7440-66-6	Zinc	71.9		E	MS
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MH1G17

Lab Name: Sentinel, Inc. Contract: 68-W-02-060

Lab Code: SENTIN Case No.: 34642 NRAS No.: SDG No.: MH1G13

Matrix: (soil/water) WATER Lab Sample ID: 16366

Level: (low/med) LOW Date Received: 10/20/2005

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony	2.0	U		MS
7440-38-2	Arsenic	1.0	U		MS
7440-39-3	Barium	65.4		E	MS
7440-41-7	Beryllium	1.0	U		MS
7440-43-9	Cadmium	0.84	J		MS
7440-70-2	Calcium				NR
7440-47-3	Chromium	0.31	J		MS
7440-48-4	Cobalt	0.39	J		MS
7440-50-8	Copper	3.0			MS
7439-89-6	Iron				NR
7439-92-1	Lead	3.3			MS
7439-95-4	Magnesium				NR
7439-96-5	Manganese	249		E	MS
7439-97-6	Mercury				NR
7440-02-0	Nickel	1.5			MS
7440-09-7	Potassium				NR
7782-49-2	Selenium	0.60	J		MS
7440-22-4	Silver	1.0	U		MS
7440-23-5	Sodium				NR
7440-28-0	Thallium	1.0	U		MS
7440-62-2	Vanadium	0.38	J		MS
7440-66-6	Zinc	135		E	MS
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MH1G19

Lab Name: Sentinel, Inc. Contract: 68-W-02-060

Lab Code: SENTIN Case No.: 34642 NRAS No.: SDG No.: MH1G13

Matrix: (soil/water) WATER Lab Sample ID: 16367

Level: (low/med) LOW Date Received: 10/20/2005

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony	2.0	U		MS
7440-38-2	Arsenic	1.0	U		MS
7440-39-3	Barium	83.8		E	MS
7440-41-7	Beryllium	1.0	U		MS
7440-43-9	Cadmium	2.8			MS
7440-70-2	Calcium				NR
7440-47-3	Chromium	0.26	J		MS
7440-48-4	Cobalt	0.23	J		MS
7440-50-8	Copper	2.8			MS
7439-89-6	Iron				NR
7439-92-1	Lead	7.8			MS
7439-95-4	Magnesium				NR
7439-96-5	Manganese	94.2		E	MS
7439-97-6	Mercury				NR
7440-02-0	Nickel	1.7			MS
7440-09-7	Potassium				NR
7782-49-2	Selenium	5.0	U		MS
7440-22-4	Silver	0.027	J		MS
7440-23-5	Sodium				NR
7440-28-0	Thallium	1.0	U		MS
7440-62-2	Vanadium	0.16	J		MS
7440-66-6	Zinc	560		E	MS
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MH1G21

Lab Name: Sentinel, Inc. Contract: 68-W-02-060

Lab Code: SENTIN Case No.: 34642 NRAS No.: SDG No.: MH1G13

Matrix: (soil/water) WATER Lab Sample ID: 16368

Level: (low/med) LOW Date Received: 10/20/2005

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony	2.0	U		MS
7440-38-2	Arsenic	0.44	J		MS
7440-39-3	Barium	114		E	MS
7440-41-7	Beryllium	1.0	U		MS
7440-43-9	Cadmium	1.0	U		MS
7440-70-2	Calcium				NR
7440-47-3	Chromium	0.24	J		MS
7440-48-4	Cobalt	1.1			MS
7440-50-8	Copper	0.77	J		MS
7439-89-6	Iron				NR
7439-92-1	Lead	0.061	J		MS
7439-95-4	Magnesium				NR
7439-96-5	Manganese	3.3		E	MS
7439-97-6	Mercury				NR
7440-02-0	Nickel	0.55	J		MS
7440-09-7	Potassium				NR
7782-49-2	Selenium	5.0	U		MS
7440-22-4	Silver	1.0	U		MS
7440-23-5	Sodium				NR
7440-28-0	Thallium	1.0	U		MS
7440-62-2	Vanadium	0.72	J		MS
7440-66-6	Zinc	1.7	J	E	MS
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

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1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MH1G23

Lab Name: Sentinel, Inc. Contract: 68-W-02-060

Lab Code: SENTIN Case No.: 34642 NRAS No.: SDG No.: MH1G13

Matrix: (soil/water) WATER Lab Sample ID: 16369

Level: (low/med) LOW Date Received: 10/20/2005

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony	2.0	U		MS
7440-38-2	Arsenic	3.9			MS
7440-39-3	Barium	150		E	MS
7440-41-7	Beryllium	0.19	J		MS
7440-43-9	Cadmium	1.2			MS
7440-70-2	Calcium				NR
7440-47-3	Chromium	1.6	J		MS
7440-48-4	Cobalt	1.9			MS
7440-50-8	Copper	19.1			MS
7439-89-6	Iron				NR
7439-92-1	Lead	53.9			MS
7439-95-4	Magnesium				NR
7439-96-5	Manganese	457		E	MS
7439-97-6	Mercury				NR
7440-02-0	Nickel	3.0			MS
7440-09-7	Potassium				NR
7782-49-2	Selenium	5.0	U		MS
7440-22-4	Silver	0.65	J		MS
7440-23-5	Sodium				NR
7440-28-0	Thallium	0.18	J		MS
7440-62-2	Vanadium	5.1			MS
7440-66-6	Zinc	173		E	MS
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MH1G25

Lab Name: Sentinel, Inc. Contract: 68-W-02-060

Lab Code: SENTIN Case No.: 34642 NRAS No.: SDG No.: MH1G13

Matrix: (soil/water) WATER Lab Sample ID: 16370

Level: (low/med) LOW Date Received: 10/20/2005

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony	2.0	U		MS
7440-38-2	Arsenic	0.13	J		MS
7440-39-3	Barium	68.9		E	MS
7440-41-7	Beryllium	1.0	U		MS
7440-43-9	Cadmium	1.0	U		MS
7440-70-2	Calcium				NR
7440-47-3	Chromium	0.42	J		MS
7440-48-4	Cobalt	0.16	J		MS
7440-50-8	Copper	0.93	J		MS
7439-89-6	Iron				NR
7439-92-1	Lead	0.65	J		MS
7439-95-4	Magnesium				NR
7439-96-5	Manganese	21.6		E	MS
7439-97-6	Mercury				NR
7440-02-0	Nickel	1.0			MS
7440-09-7	Potassium				NR
7782-49-2	Selenium	0.97	J		MS
7440-22-4	Silver	1.0	U		MS
7440-23-5	Sodium				NR
7440-28-0	Thallium	1.0	U		MS
7440-62-2	Vanadium	0.97	J		MS
7440-66-6	Zinc	2.7		E	MS
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MH1G27

Lab Name: Sentinel, Inc. Contract: 68-W-02-060

Lab Code: SENTIN Case No.: 34642 NRAS No.: SDG No.: MH1G13

Matrix: (soil/water) WATER Lab Sample ID: 16371

Level: (low/med) LOW Date Received: 10/20/2005

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony	2.0	U		MS
7440-38-2	Arsenic	4.9			MS
7440-39-3	Barium	153		E	MS
7440-41-7	Beryllium	0.56	J		MS
7440-43-9	Cadmium	1.3			MS
7440-70-2	Calcium				NR
7440-47-3	Chromium	5.6			MS
7440-48-4	Cobalt	6.1			MS
7440-50-8	Copper	14.5			MS
7439-89-6	Iron				NR
7439-92-1	Lead	16.3			MS
7439-95-4	Magnesium				NR
7439-96-5	Manganese	200		E	MS
7439-97-6	Mercury				NR
7440-02-0	Nickel	21.2			MS
7440-09-7	Potassium				NR
7782-49-2	Selenium	0.83	J		MS
7440-22-4	Silver	0.15	J		MS
7440-23-5	Sodium				NR
7440-28-0	Thallium	0.57	J		MS
7440-62-2	Vanadium	18.4			MS
7440-66-6	Zinc	63.8		E	MS
57-12-5	Cyanide				NR

Color Before: BROWN Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MH1G29

Lab Name: Sentinel, Inc. Contract: 68-W-02-060

Lab Code: SENTIN Case No.: 34642 NRAS No.: SDG No.: MH1G13

Matrix: (soil/water) WATER Lab Sample ID: 16372

Level: (low/med) LOW Date Received: 10/20/2005

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony	2.0	U		MS
7440-38-2	Arsenic	0.39	J		MS
7440-39-3	Barium	110		E	MS
7440-41-7	Beryllium	1.0	U		MS
7440-43-9	Cadmium	1.0	U		MS
7440-70-2	Calcium				NR
7440-47-3	Chromium	0.20	J		MS
7440-48-4	Cobalt	0.040	J		MS
7440-50-8	Copper	0.86	J		MS
7439-89-6	Iron				NR
7439-92-1	Lead	0.17	J		MS
7439-95-4	Magnesium				NR
7439-96-5	Manganese	13.4		E	MS
7439-97-6	Mercury				NR
7440-02-0	Nickel	0.89	J		MS
7440-09-7	Potassium				NR
7782-49-2	Selenium	5.0	U		MS
7440-22-4	Silver	1.0	U		MS
7440-23-5	Sodium				NR
7440-28-0	Thallium	1.0	U		MS
7440-62-2	Vanadium	0.30	J		MS
7440-66-6	Zinc	2.3		E	MS
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MH1G31

Lab Name: Sentinel, Inc. Contract: 68-W-02-060

Lab Code: SENTIN Case No.: 34642 NRAS No.: SDG No.: MH1G13

Matrix: (soil/water) WATER Lab Sample ID: 16373

Level: (low/med) LOW Date Received: 10/20/2005

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony	2.0	U		MS
7440-38-2	Arsenic	0.13	J		MS
7440-39-3	Barium	153		E	MS
7440-41-7	Beryllium	1.0	U		MS
7440-43-9	Cadmium	1.0	U		MS
7440-70-2	Calcium				NR
7440-47-3	Chromium	0.21	J		MS
7440-48-4	Cobalt	1.0	U		MS
7440-50-8	Copper	0.58	J		MS
7439-89-6	Iron				NR
7439-92-1	Lead	0.091	J		MS
7439-95-4	Magnesium				NR
7439-96-5	Manganese	5.1		E	MS
7439-97-6	Mercury				NR
7440-02-0	Nickel	0.35	J		MS
7440-09-7	Potassium				NR
7782-49-2	Selenium	5.0	U		MS
7440-22-4	Silver	1.0	U		MS
7440-23-5	Sodium				NR
7440-28-0	Thallium	1.0	U		MS
7440-62-2	Vanadium	0.14	J		MS
7440-66-6	Zinc	0.24	J	E	MS
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MH1G36

Lab Name: Sentinel, Inc. Contract: 68-W-02-060

Lab Code: SENTIN Case No.: 34642 NRAS No.: SDG No.: MH1G13

Matrix: (soil/water) WATER Lab Sample ID: 16374

Level: (low/med) LOW Date Received: 10/20/2005

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony	2.0	U		MS
7440-38-2	Arsenic	1.0	U		MS
7440-39-3	Barium	0.65	J	E	MS
7440-41-7	Beryllium	1.0	U		MS
7440-43-9	Cadmium	1.0	U		MS
7440-70-2	Calcium				NR
7440-47-3	Chromium	0.19	J		MS
7440-48-4	Cobalt	1.0	U		MS
7440-50-8	Copper	0.31	J		MS
7439-89-6	Iron				NR
7439-92-1	Lead	0.037	J		MS
7439-95-4	Magnesium				NR
7439-96-5	Manganese	0.14	J	E	MS
7439-97-6	Mercury				NR
7440-02-0	Nickel	1.0	U		MS
7440-09-7	Potassium				NR
7782-49-2	Selenium	5.0	U		MS
7440-22-4	Silver	1.0	U		MS
7440-23-5	Sodium				NR
7440-28-0	Thallium	1.0	U		MS
7440-62-2	Vanadium	36.4			MS
7440-66-6	Zinc	0.28	J	E	MS
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MH1G37

Lab Name: Sentinel, Inc. Contract: 68-W-02-060

Lab Code: SENTIN Case No.: 34642 NRAS No.: SDG No.: MH1G13

Matrix: (soil/water) WATER Lab Sample ID: 16375

Level: (low/med) LOW Date Received: 10/20/2005

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony	2.0	U		MS
7440-38-2	Arsenic	1.0	U		MS
7440-39-3	Barium	0.62	J	E	MS
7440-41-7	Beryllium	1.0	U		MS
7440-43-9	Cadmium	1.0	U		MS
7440-70-2	Calcium				NR
7440-47-3	Chromium	0.18	J		MS
7440-48-4	Cobalt	1.0	U		MS
7440-50-8	Copper	0.26	J		MS
7439-89-6	Iron				NR
7439-92-1	Lead	0.070	J		MS
7439-95-4	Magnesium				NR
7439-96-5	Manganese	0.086	J	E	MS
7439-97-6	Mercury				NR
7440-02-0	Nickel	1.0	U		MS
7440-09-7	Potassium				NR
7782-49-2	Selenium	5.0	U		MS
7440-22-4	Silver	1.0	U		MS
7440-23-5	Sodium				NR
7440-28-0	Thallium	1.0	U		MS
7440-62-2	Vanadium	0.21	J		MS
7440-66-6	Zinc	0.098	J	E	MS
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MH1G38

Lab Name: Sentinel, Inc. Contract: 68-W-02-060

Lab Code: SENTIN Case No.: 34642 NRAS No.: SDG No.: MH1G13

Matrix: (soil/water) WATER Lab Sample ID: 16376

Level: (low/med) LOW Date Received: 10/20/2005

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony	2.0			MS
7440-38-2	Arsenic	1.0			MS
7440-39-3	Barium	10.4		E	MS
7440-41-7	Beryllium	0.93	J		MS
7440-43-9	Cadmium	0.92	J		MS
7440-70-2	Calcium				NR
7440-47-3	Chromium	2.1			MS
7440-48-4	Cobalt	0.91	J		MS
7440-50-8	Copper	2.3			MS
7439-89-6	Iron				NR
7439-92-1	Lead	1.1			MS
7439-95-4	Magnesium				NR
7439-96-5	Manganese	1.1		E	MS
7439-97-6	Mercury				NR
7440-02-0	Nickel	1.1			MS
7440-09-7	Potassium				NR
7782-49-2	Selenium	4.3	J		MS
7440-22-4	Silver	1.1			MS
7440-23-5	Sodium				NR
7440-28-0	Thallium	1.1			MS
7440-62-2	Vanadium	1.1			MS
7440-66-6	Zinc	2.2		E	MS
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MH1G39

Lab Name: Sentinel, Inc. Contract: 68-W-02-060

Lab Code: SENTIN Case No.: 34642 NRAS No.: SDG No.: MH1G13

Matrix: (soil/water) WATER Lab Sample ID: 16377

Level: (low/med) LOW Date Received: 10/20/2005

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony	2.0	U		MS
7440-38-2	Arsenic	13.5			MS
7440-39-3	Barium	0.67	J	E	MS
7440-41-7	Beryllium	8.4			MS
7440-43-9	Cadmium	14.3			MS
7440-70-2	Calcium				NR
7440-47-3	Chromium	18.9			MS
7440-48-4	Cobalt	10.1			MS
7440-50-8	Copper	15.5			MS
7439-89-6	Iron				NR
7439-92-1	Lead	15.4			MS
7439-95-4	Magnesium				NR
7439-96-5	Manganese	10.6		E	MS
7439-97-6	Mercury				NR
7440-02-0	Nickel	1.0	U		MS
7440-09-7	Potassium				NR
7782-49-2	Selenium	5.0	U		MS
7440-22-4	Silver	15.0			MS
7440-23-5	Sodium				NR
7440-28-0	Thallium	4.1			MS
7440-62-2	Vanadium	11.6			MS
7440-66-6	Zinc	11.1		E	MS
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

USEPA - CLP

2A-IN
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Sentinel, Inc. Contract: 68-W-02-060

Lab Code: SENTIN Case No.: 34642 NRAS No.: SDG No.: MH1G13

Initial Calibration Verification Source: EPA ICV1201

Continuing Calibration Verification Source: IV RCICP10028

Concentration Units: ug/L

	Initial Calibration Verification			Continuing Calibration Verification					
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	M
Aluminum									NR
Antimony	198.0	201.83	102	100.0	100.32	100	100.24	100	MS
Arsenic	199.0	194.90	98	100.0	100.11	100	98.44	98	MS
Barium	100.0	99.83	100	100.0	101.70	102	99.11	99	MS
Beryllium	99.0	99.45	100	100.0	102.91	103	100.68	101	MS
Cadmium	99.0	101.08	102	100.0	101.74	102	99.50	100	MS
Calcium									NR
Chromium	98.0	97.87	100	100.0	101.04	101	99.34	99	MS
Cobalt	99.0	99.74	101	100.0	101.77	102	99.67	100	MS
Copper	98.0	99.75	102	100.0	101.89	102	99.55	100	MS
Iron									NR
Lead	199.0	203.51	102	100.0	102.18	102	100.03	100	MS
Magnesium									NR
Manganese	99.0	98.79	100	100.0	101.39	101	98.88	99	MS
Mercury									NR
Nickel	98.0	96.89	99	100.0	101.56	102	98.98	99	MS
Potassium									NR
Selenium	201.0	200.49	100	100.0	102.86	103	100.49	100	MS
Silver	99.0	102.25	103	100.0	102.54	103	100.21	100	MS
Sodium									NR
Thallium	205.0	210.76	103	100.0	101.97	102	99.04	99	MS
Vanadium	100.0	100.11	100	100.0	99.86	100	98.12	98	MS
Zinc	200.0	194.90	97	100.0	101.35	101	98.75	99	MS
Cyanide									NR

(1) Control limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

USEPA - CLP

2A-IN
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Sentinel, Inc. Contract: 68-W-02-060

Lab Code: SENTIN Case No.: 34642 NRAS No.: SDG No.: MH1G13

Initial Calibration Verification Source:

Continuing Calibration Verification Source: IV RCICP10028

Concentration Units: ug/L

Analyte	Initial Calibration Verification True	Found	%R(1)	Continuing Calibration Verification True	Found	%R(1)	Found	%R(1)	M
Aluminum									NR
Antimony				100.0	100.12	100	99.65	100	MS
Arsenic				100.0	97.85	98	99.44	99	MS
Barium				100.0	100.97	101	101.19	101	MS
Beryllium				100.0	100.03	100	100.90	101	MS
Cadmium				100.0	100.50	101	100.90	101	MS
Calcium									NR
Chromium				100.0	99.03	99	99.68	100	MS
Cobalt				100.0	99.23	99	99.83	100	MS
Copper				100.0	99.40	99	100.09	100	MS
Iron									NR
Lead				100.0	100.93	101	100.92	101	MS
Magnesium									NR
Manganese				100.0	98.61	99	99.23	99	MS
Mercury									NR
Nickel				100.0	98.73	99	99.08	99	MS
Potassium									NR
Selenium				100.0	98.88	99	98.27	98	MS
Silver				100.0	101.36	101	101.07	101	MS
Sodium									NR
Thallium				100.0	100.63	101	100.43	100	MS
Vanadium				100.0	98.67	99	98.93	99	MS
Zinc				100.0	98.20	98	97.15	97	MS
Cyanide									NR

(1) Control limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

USEPA - CLP

2B-IN
CRQL CHECK STANDARD

Lab Name: Sentinel, Inc. Contract: 68-W-02-060

Lab Code: SENTIN Case No.: 34642 NRAS No.: SDG No.: MH1G13

CRQL Check Standard Source: IV X-MEB156047

Concentration Units: ug/L

	CRQL Check Standard				
		Initial		Final	
Analyte	True	Found*	%R(1)	Found*	%R(1)
Aluminum					
Antimony	2.0	2.19	110	2.07	104
Arsenic	1.0	0.89J	89	0.62J	62
Barium	10.0	10.20	102	10.02	100
Beryllium	1.0	0.96J	96	0.86J	86
Cadmium	1.0	1.01	101	1.01	101
Calcium					
Chromium	2.0	2.01	101	1.98J	99
Cobalt	1.0	0.95J	95	0.86J	86
Copper	2.0	2.07	104	1.86J	93
Iron					
Lead	1.0	1.00	100	1.01	101
Magnesium					
Manganese	1.0	0.99J	99	1.00	100
Mercury					
Nickel	1.0	0.92J	92	1.01	101
Potassium					
Selenium	5.0	4.67J	93	5.82	116
Silver	1.0	1.05	105	1.07	107
Sodium					
Thallium	1.0	1.08	108	1.11	111
Vanadium	1.0	1.16	116	1.19	119
Zinc	2.0	1.96J	98	1.88J	94
Cyanide					

(1) Control Limits: 70-130 with the following exceptions:
ICP-AES - Antimony, Lead, and Thallium: 50-150
ICP-MS - Cobalt, Manganese, and Zinc: 50-150

* If applicable, enter the concentration qualifier "J" or "U" after the concentration in these columns (e.g. 0.20U for Mercury).

USEPA - CLP

2B-IN
CRQL CHECK STANDARD

Lab Name: Sentinel, Inc. Contract: 68-W-02-060

Lab Code: SENTIN Case No.: 34642 NRAS No.: SDG No.: MH1G13

CRQL Check Standard Source: IV X-MEB156047

Concentration Units: ug/L

	CRQL Check Standard				
		Initial		Final	
Analyte	True	Found*	%R(1)	Found*	%R(1)
Aluminum					
Antimony	2.0			2.06	103
Arsenic	1.0			1.00J	100
Barium	10.0			10.03	100
Beryllium	1.0			0.89J	89
Cadmium	1.0			0.86J	86
Calcium					
Chromium	2.0			2.01	101
Cobalt	1.0			0.88J	88
Copper	2.0			2.02	101
Iron					
Lead	1.0			1.00J	100
Magnesium					
Manganese	1.0			1.01	101
Mercury					
Nickel	1.0			1.03	103
Potassium					
Selenium	5.0			5.48	110
Silver	1.0			1.04	104
Sodium					
Thallium	1.0			1.08	108
Vanadium	1.0			1.18	118
Zinc	2.0			1.77J	89
Cyanide					

(1) Control Limits: 70-130 with the following exceptions:
ICP-AES - Antimony, Lead, and Thallium: 50-150
ICP-MS - Cobalt, Manganese, and Zinc: 50-150

* If applicable, enter the concentration qualifier "J" or "U" after the concentration in these columns (e.g. 0.20U for Mercury).

USEPA - CLP

3-IN
BLANKS

Lab Name: Sentinel, Inc. Contract: 68-W-02-060

Lab Code: SENTIN Case No.: 34642 NRAS No.: SDG No.: MH1G13

Preparation Blank Matrix (soil/water): WATER

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

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											NR
Antimony	0.656	J	0.379	J	0.351	J	0.315	J	2.000	U	MS
Arsenic	-0.245	J	-0.275	J	-0.248	J	-0.107	J	-0.449	J	MS
Barium	10.000	U	10.000	U	10.000	U	10.000	U	0.580	J	MS
Beryllium	1.000	U	1.000	U	1.000	U	-0.035	J	-0.055	J	MS
Cadmium	1.000	U	1.000	U	1.000	U	1.000	U	1.000	U	MS
Calcium											NR
Chromium	0.026	J	0.063	J	0.033	J	0.043	J	0.207	J	MS
Cobalt	-0.036	J	1.000	U	1.000	U	-0.049	J	-0.055	J	MS
Copper	2.000	U	2.000	U	2.000	U	2.000	U	0.184	J	MS
Iron											NR
Lead	1.000	U	1.000	U	1.000	U	1.000	U	0.100	J	MS
Magnesium											NR
Manganese	1.000	U	0.072	J	1.000	U	1.000	U	0.122	J	MS
Mercury											NR
Nickel	1.000	U	1.000	U	1.000	U	1.000	U	1.000	U	MS
Potassium											NR
Selenium	5.000	U	5.000	U	5.000	U	5.000	U	0.500	J	MS
Silver	0.038	J	0.056	J	0.033	J	1.000	U	1.000	U	MS
Sodium											NR
Thallium	0.065	J	0.058	J	0.039	J	0.023	J	1.000	U	MS
Vanadium	0.159	J	0.120	J	0.165	J	1.000	U	0.036	J	MS
Zinc	2.000	U	2.000	U	2.000	U	2.000	U	2.000	U	MS
Cyanide											NR

USEPA - CLP

3-IN
BLANKS

Lab Name: Sentinel, Inc. Contract: 68-W-02-060

Lab Code: SENTIN Case No.: 34642 NRAS No.: SDG No.: MH1G13

Preparation Blank Matrix (soil/water):

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

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											NR
Antimony			0.295	J							MS
Arsenic			-0.230	J							MS
Barium			10.000	U							MS
Beryllium			-0.061	J							MS
Cadmium			1.000	U							MS
Calcium											NR
Chromium			0.043	J							MS
Cobalt			-0.044	J							MS
Copper			2.000	U							MS
Iron											NR
Lead			1.000	U							MS
Magnesium											NR
Manganese			1.000	U							MS
Mercury											NR
Nickel			1.000	U							MS
Potassium											NR
Selenium			5.000	U							MS
Silver			1.000	U							MS
Sodium											NR
Thallium			1.000	U							MS
Vanadium			1.000	U							MS
Zinc			2.000	U							MS
Cyanide											NR

USEPA - CLP

4B-IN
ICP-MS INTERFERENCE CHECK SAMPLE

Lab Name: Sentinel, Inc. Contract: 68-W-02-060

Lab Code: SENTIN Case No.: 34642 NRAS No.: SDG No.: MH1G13

ICP-MS Instrument ID: M1 ICS Source: EPA ICSA0803

Concentration Units: ug/L

Analyte	True Sol. A	True Sol. AB	Found Sol. A	%R	Found Sol. AB	%R
Aluminum	100000	100000	142000	142	149000	149
Antimony	1.5	22.0	1.5	100	22.5	102
Arsenic	0.10	19.0	0.44	440	19.9	105
Barium	1.2	22.0	1.6	133	22.1	100
Beryllium	0	19.0	-0.095		20.5	108
Cadmium	0.70	20.0	-0.080	-11	19.6	98
Calcium	100000	100000	93200	93	96300	96
Carbon						
Chloride						
Chromium	21.0	40.0	19.6	93	40.2	101
Cobalt	1.0	20.0	0.99	99	21.0	105
Copper	8.0	25.0	9.5	119	30.3	121
Iron						
Lead	4.0	25.0	4.3	108	25.1	100
Magnesium	100000	100000	141000	141	147000	147
Manganese	7.0	27.0	8.0	114	28.4	105
Molybdenum						
Nickel	6.0	24.0	7.0	117	26.5	110
Phosphorus						
Potassium						
Selenium	0.30	19.0	-1.4	-467	17.5	92
Silver	0	18.0	0.073		19.9	111
Sodium						
Sulfur						
Thallium	0	21.0	0.18		22.0	105
Titanium						
Vanadium	0.50	19.0	1.3	260	20.6	108
Zinc	11.0	29.0	17.7	161	33.5	116

USEPA - CLP

5A-IN
MATRIX SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

MH1G13S

Lab Name: Sentinel, Inc. Contract: 68-W-02-060

Lab Code: SENTIN Case No.: 34642 NRAS No.: SDG No.: MH1G13

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

% Solids for Sample: 0.0

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

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									NR
Antimony	75-125	88.3265		2.0000	U	100.00	88		MS
Arsenic	75-125	37.7504		0.1954	J	40.00	94		MS
Barium	75-125	1905.8909		114.5050		2000.00	90		MS
Beryllium	75-125	48.4041		1.0000	U	50.00	97		MS
Cadmium	75-125	48.5509		0.1578	J	50.00	97		MS
Calcium									NR
Chromium	75-125	181.9344		0.1838	J	200.00	91		MS
Cobalt	75-125	444.1216		0.0515	J	500.00	89		MS
Copper	75-125	223.9213		0.9019	J	250.00	89		MS
Iron									NR
Lead	75-125	19.7076		0.1381	J	20.00	98		MS
Magnesium									NR
Manganese	75-125	468.8530		25.6116		500.00	89		MS
Mercury									NR
Nickel	75-125	438.0383		0.8983	J	500.00	87		MS
Potassium									NR
Selenium	75-125	9.5313		5.0000	U	10.00	95		MS
Silver	75-125	47.9676		1.0000	U	50.00	96		MS
Sodium									NR
Thallium	75-125	49.5686		1.0000	U	50.00	99		MS
Vanadium	75-125	458.5306		0.3735	J	500.00	92		MS
Zinc	75-125	466.1290		25.0095		500.00	88		MS
Cyanide									NR

Comments:

USEPA - CLP

6-IN
DUPLICATES

EPA SAMPLE NO.

MH1G13D

Lab Name: Sentinel, Inc. Contract: 68-W-02-060

Lab Code: SENTIN Case No.: 34642 NRAS No.: SDG No.: MH1G13

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

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

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

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum								NR
Antimony		2.0000	U	2.0000	U			MS
Arsenic		0.1954	J	0.1876	J	4		MS
Barium		114.5050		104.5023		9		MS
Beryllium		1.0000	U	1.0000	U			MS
Cadmium		0.1578	J	0.2113	J	29		MS
Calcium								NR
Chromium		0.1838	J	0.1894	J	3		MS
Cobalt		0.0515	J	0.0311	J	49		MS
Copper		0.9019	J	0.9078	J	1		MS
Iron								NR
Lead		0.1381	J	0.1344	J	3		MS
Magnesium								NR
Manganese		25.6116		23.7086		8		MS
Mercury								NR
Nickel		0.8983	J	0.9059	J	1		MS
Potassium								NR
Selenium		5.0000	U	5.0000	U			MS
Silver		1.0000	U	1.0000	U			MS
Sodium								NR
Thallium		1.0000	U	1.0000	U			MS
Vanadium		0.3735	J	0.1993	J	61		MS
Zinc		25.0095		23.4956		6		MS
Cyanide								NR

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7-IN
LABORATORY CONTROL SAMPLE

Lab Name: Sentinel, Inc. Contract: 68-W-02-060

Lab Code: SENTIN Case No.: 34642 NRAS No.: SDG No.: MH1G13

Solid LCS Source:

Aqueous LCS Source: EPA ICV1201

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits	%R
Aluminum								
Antimony	198.0	183.57	93					
Arsenic	199.0	184.51	93					
Barium	100.0	96.84	97					
Beryllium	99.0	93.26	94					
Cadmium	99.0	96.53	98					
Calcium								
Chromium	98.0	91.85	94					
Cobalt	99.0	94.15	95					
Copper	98.0	93.99	96					
Iron								
Lead	199.0	195.01	98					
Magnesium								
Manganese	99.0	93.63	95					
Mercury								
Nickel	98.0	91.24	93					
Potassium								
Selenium	201.0	189.31	94					
Silver	99.0	96.88	98					
Sodium								
Thallium	205.0	200.09	98					
Vanadium	100.0	94.78	95					
Zinc	200.0	183.87	92					
Cyanide								

USEPA - CLP

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS

EPA SAMPLE NO.

MH1G13L

Lab Name: Sentinel, Inc. Contract: 68-W-02-060

Lab Code: SENTIN Case No.: 34642 NRAS No.: SDG No.: MH1G13

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

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum							NR
Antimony	2.00	U	10.00	U			MS
Arsenic	0.16	J	5.00	U	100		MS
Barium	91.60		75.98		17	E	MS
Beryllium	1.00	U	5.00	U			MS
Cadmium	0.13	J	5.00	U	100		MS
Calcium							NR
Chromium	0.15	J	0.66	J	340		MS
Cobalt	0.04	J	5.00	U	100		MS
Copper	0.72	J	1.53	J	113		MS
Iron							NR
Lead	0.11	J	0.26	J	136		MS
Magnesium							NR
Manganese	20.49		17.26		16	E	MS
Nickel	0.72	J	0.71	J	1		MS
Potassium							NR
Selenium	5.00	U	2.23	J			MS
Silver	1.00	U	5.00	U			MS
Sodium							NR
Thallium	1.00	U	0.16	J			MS
Vanadium	0.30	J	1.41	J	370		MS
Zinc	20.01		16.39		18	E	MS

USEPA - CLP

9-IN
METHOD DETECTION LIMITS (ANNUALLY)

Lab Name: Sentinel, Inc. Contract: 68-W-02-060

Lab Code: SENTIN Case No.: 34642 NRAS No.: SDG No.: MH1G13

Instrument Type: MS Instrument ID: M1 Date: 01/15/2005

Preparation Method: NP1

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

Analyte	Wavelength /Mass	CRQL	MDL
Aluminum			
Antimony	121.00	2	0.13
Arsenic	75.00	1	0.082
Barium	137.00	10	0.085
Beryllium	9.00	1	0.030
Cadmium	111.00	1	0.099
Calcium			
Chromium	52.00	2	0.021
Cobalt	59.00	1	0.030
Copper	65.00	2	0.15
Iron			
Lead	208.00	1	0.070
Magnesium			
Manganese	55.00	1	0.051
Mercury			
Nickel	60.00	1	0.31
Potassium			
Selenium	78.00	5	0.48
Silver	107.00	1	0.026
Sodium			
Thallium	203.00	1	0.015
Vanadium	51.00	1	0.041
Zinc	66.00	2	0.32
Cyanide			

Comments:
M1: TJA ICP-MS

USEPA - CLP

9-IN
METHOD DETECTION LIMITS (ANNUALLY)

Lab Name: Sentinel, Inc. Contract: 68-W-02-060

Lab Code: SENTIN Case No.: 34642 NRAS No.: SDG No.: MH1G13

Instrument Type: MS Instrument ID: M1 Date: 01/15/2005

Preparation Method: HW2

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

Analyte	Wavelength /Mass	CRQL	MDL
Aluminum			
Antimony	121.00	2	0.75
Arsenic	75.00	1	0.078
Barium	137.00	10	0.16
Beryllium	9.00	1	0.046
Cadmium	111.00	1	0.11
Calcium			
Chromium	52.00	2	0.052
Cobalt	59.00	1	0.018
Copper	65.00	2	0.057
Iron			
Lead	208.00	1	0.015
Magnesium			
Manganese	55.00	1	0.029
Mercury			
Nickel	60.00	1	0.064
Potassium			
Selenium	78.00	5	0.49
Silver	107.00	1	0.025
Sodium			
Thallium	203.00	1	0.033
Vanadium	51.00	1	0.021
Zinc	66.00	2	0.095
Cyanide			

Comments:
M1: TJA ICP-MS

USEPA - CLP

11-IN
ICP-AES AND ICP-MS LINEAR RANGES (QUARTERLY)

Lab Name: Sentinel, Inc. Contract: 68-W-02-060

Lab Code: SENTIN Case No.: 34642 NRAS No.: SDG No.: MH1G13

ICP Instrument ID: M1 Date: 10/15/2005

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	M
Aluminum			NR
Antimony	3.00	20000.0	MS
Arsenic	3.00	20000.0	MS
Barium	3.00	5000.0	MS
Beryllium	3.00	20000.0	MS
Cadmium	3.00	20000.0	MS
Calcium			NR
Chromium	3.00	10000.0	MS
Cobalt	3.00	10000.0	MS
Copper	3.00	20000.0	MS
Iron			NR
Lead	3.00	20000.0	MS
Magnesium			NR
Manganese	3.00	10000.0	MS
Nickel	3.00	20000.0	MS
Potassium			NR
Selenium	3.00	20000.0	MS
Silver	3.00	20000.0	MS
Sodium			NR
Thallium	3.00	20000.0	MS
Vanadium	3.00	20000.0	MS
Zinc	3.00	20000.0	MS

Comments:
M1: TJA ICP-MS

USEPA - CLP

12-IN
PREPARATION LOG

Lab Name: Sentinel, Inc. Contract: 68-W-02-060

Lab Code: SENTIN Case No.: 34642 NRAS No.: SDG No.: MH1G13

Preparation Method: HW2

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
LCSW	10/21/2005		50
MH1G13	10/21/2005		50
MH1G13D	10/21/2005		50
MH1G13S	10/21/2005		50
MH1G15	10/21/2005		50
MH1G17	10/21/2005		50
MH1G19	10/21/2005		50
MH1G21	10/21/2005		50
MH1G23	10/21/2005		50
MH1G25	10/21/2005		50
MH1G27	10/21/2005		50
MH1G29	10/21/2005		50
MH1G31	10/21/2005		50
MH1G36	10/21/2005		50
MH1G37	10/21/2005		50
MH1G38	10/21/2005		50
MH1G39	10/21/2005		50
PBW	10/21/2005		50

USEPA - CLP

13-IN
ANALYSIS RUN LOG

Lab Name: Sentinel, Inc. Contract: 68-W-02-060

Lab Code: SENTIN Case No.: 34642 NRAS No.: SDG No.: MH1G13

Instrument ID: M1 Analysis Method: MS

Start date: 10/25/2005 End date: 10/25/2005

EPA Sample No.	D/F	Time	Analytes																								
			ALB	SBS	ASA	BBE	BCD	CCA	CCR	CCO	CCU	FE	PB	MG	MN	HG	NI	KS	SE	AG	NA	TL	VN	ZN	CN
TUNE	1.00	1902					X				X			X	X											
S0	1.00	1910	X	X	X	X	X	X	X	X	X		X	X	X		X		X	X		X	X	X		
S200.0	1.00	1915	X	X	X	X	X	X	X	X	X	X		X	X	X		X		X	X		X	X	X	
ICV	1.00	1921		X	X	X	X	X		X	X	X		X		X		X		X	X		X	X	X	
ICB	1.00	1927		X	X	X	X	X		X	X	X		X		X		X		X	X		X	X	X	
CRI	1.00	1932		X	X	X	X	X		X	X	X		X		X		X		X	X		X	X	X	
ICSA	5.00	1938	X	X	X	X	X	X	X	X	X	X		X	X	X		X		X	X		X	X	X	
ICSAB	5.00	1944	X	X	X	X	X	X	X	X	X	X		X	X	X		X		X	X		X	X	X	
CCV	1.00	1950		X	X	X	X	X		X	X	X		X		X		X		X	X		X	X	X	
CCB	1.00	1955		X	X	X	X	X		X	X	X		X		X		X		X	X		X	X	X	
PBW	1.00	2001		X	X	X	X	X		X	X	X		X		X		X		X	X		X	X	X	
LCSW	1.00	2007		X	X	X	X	X		X	X	X		X		X		X		X	X		X	X	X	
MH1G13L	5.00	2013		X	X	X	X	X		X	X	X		X		X		X		X	X		X	X	X	
MH1G13	1.00	2018		X	X	X	X	X		X	X	X		X		X		X		X	X		X	X	X	
MH1G13D	1.00	2024		X	X	X	X	X		X	X	X		X		X		X		X	X		X	X	X	
MH1G13S	1.00	2030		X	X	X	X	X		X	X	X		X		X		X		X	X		X	X	X	
MH1G13A	1.00	2035																								
MH1G15	1.00	2041		X	X	X	X	X		X	X	X		X		X		X		X	X		X	X	X	
MH1G17	1.00	2047		X	X	X	X	X		X	X	X		X		X		X		X	X		X	X	X	
ZZZZZZ	1.00	2052																								
CCV	1.00	2058		X	X	X	X	X		X	X	X		X		X		X		X	X		X	X	X	
CCB	1.00	2104		X	X	X	X	X		X	X	X		X		X		X		X	X		X	X	X	
MH1G19	1.00	2110		X	X	X	X	X		X	X	X		X		X		X		X	X		X	X	X	
MH1G21	1.00	2115		X	X	X	X	X		X	X	X		X		X		X		X	X		X	X	X	
MH1G23	1.00	2121		X	X	X	X	X		X	X	X		X		X		X		X	X		X	X	X	
MH1G25	1.00	2127		X	X	X	X	X		X	X	X		X		X		X		X	X		X	X	X	
MH1G27	1.00	2132		X	X	X	X	X		X	X	X		X		X		X		X	X		X	X	X	
MH1G29	1.00	2138		X	X	X	X	X		X	X	X		X		X		X		X	X		X	X	X	
ZZZZZZ	1.00	2144																								
CRI	1.00	2149		X	X	X	X	X		X	X	X		X		X		X		X	X		X	X	X	
CCV	1.00	2155		X	X	X	X	X		X	X	X		X		X		X		X	X		X	X	X	
CCB	1.00	2201		X	X	X	X	X		X	X	X		X		X		X		X	X		X	X	X	
MH1G31	1.00	2207		X	X	X	X	X		X	X	X		X		X		X		X	X		X	X	X	

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13-IN
ANALYSIS RUN LOG

Lab Name: Sentinel, Inc. Contract: 68-W-02-060

Lab Code: SENTIN Case No.: 34642 NRAS No.: SDG No.: MH1G13

Instrument ID: M1 Analysis Method: MS

Start date: 10/25/2005 End date: 10/25/2005

EPA Sample No.	D/F	Time	Analytes																							
			ALB	SBS	ASA	BAE	BED	CDA	CAR	COU	CUE	FEB	PBG	MGN	HGI	NIK	SEG	AGA	NAL	TLN	VNN	ZNC	CN			
MH1G36	1.00	2212		X	X	X	X	X		X	X	X		X		X		X		X	X		X	X	X	
MH1G37	1.00	2218		X	X	X	X	X		X	X	X		X		X		X		X	X		X	X	X	
MH1G38	1.00	2224		X	X	X	X	X		X	X	X		X		X		X		X	X		X	X	X	
MH1G39	1.00	2229		X	X	X	X	X		X	X	X		X		X		X		X	X		X	X	X	
ZZZZZZ	1.00	2235																								
CRI	1.00	2241		X	X	X	X	X		X	X	X		X		X		X		X	X		X	X	X	
CCV	1.00	2246		X	X	X	X	X		X	X	X		X		X		X		X	X		X	X	X	
CCB	1.00	2252		X	X	X	X	X		X	X	X		X		X		X		X	X		X	X	X	

FORM XIII-IN ILM05.3

USEPA - CLP

14-IN
ICP-MS Tune

Lab Name: Sentinel, Inc. Contract: 68-W-02-060

Lab Code: SENTIN Case No.: 34642 NRAS No.: SDG No.: MH1G13

ICP-MS Instrument ID: M1 Date: 10/25/2005

Element - Mass	Avg. Measured Mass (amu)	Avg. Peak Width at Peak Height (amu)	%RSD
Be - 9	9.01	0.71	1
Mg - 24	23.99	0.77	1
Mg - 25	24.99	0.71	1
Mg - 26	25.98	0.77	1
Co - 59	58.93	0.77	1
In - 113	112.90	0.76	1
In - 115	114.90	0.76	1
Pb - 206	205.97	0.76	2
Pb - 207	206.98	0.76	2
Pb - 208	207.98	0.76	1

Comments:

USEPA - CLP

15-IN
ICP-MS Internal Standards Relative Intensity Summary

Lab Name: Sentinel, Inc. Contract: 68-W-02-060

Lab Code: SENTIN Case No.: 34642 NRAS No.: SDG No.: MH1G13

ICP-MS Instrument ID: M1 Start date: 10/25/2005 End date: 10/25/2005

EPA Sample No.	Time	Internal Standards %RI for: Element LI6	Q	Element SC45	Q	Element Y89	Q	Element RH103	Q	Element IN115	Q
S0	1910	100		100		100		100		100	
S200.0	1915	101		112		111		112		110	
ICV	1921	101		111		110		107		107	
ICB	1927	98		99		98		98		98	
CRI	1932	100		98		100		99		99	
ICSA	1938	102		125		125		126		123	
ICSAB	1944	101		127		127		127		125	
CCV	1950	99		112		112		114		112	
CCB	1955	100		101		102		101		102	
PBW	2001	101		102		100		100		101	
LCSW	2007	100		111		110		107		107	
MH1G13L	2013	100		109		105		103		105	
MH1G13	2018	99		118		112		107		108	
MH1G13D	2024	99		115		109		104		105	
MH1G13S	2030	96		112		107		102		104	
MH1G13A	2035	97		109		104		100		101	
MH1G15	2041	97		113		106		102		103	
MH1G17	2047	98		114		107		102		103	
CCV	2058	98		104		104		104		102	
CCB	2104	96		95		94		93		93	
MH1G19	2110	97		111		105		100		101	
MH1G21	2115	99		110		103		100		100	
MH1G23	2121	93		109		103		96		97	
MH1G25	2127	96		106		101		97		97	
MH1G27	2132	93		111		109		96		98	
MH1G29	2138	100		120		114		110		109	
CRI	2149	97		95		93		93		92	
CCV	2155	96		101		100		100		97	
CCB	2201	95		93		93		91		90	
MH1G31	2207	96		106		102		96		97	
MH1G36	2212	97		95		93		93		91	
MH1G37	2218	96		94		91		92		91	
MH1G38	2224	96		93		92		91		90	
MH1G39	2229	94		93		93		91		92	
CRI	2241	93		92		91		90		91	
CCV	2246	94		100		100		100		97	

USEPA - CLP

15-IN

ICP-MS Internal Standards Relative Intensity Summary

Lab Name: Sentinel, Inc. Contract: 68-W-02-060

Lab Code: SENTIN Case No.: 34642 NRAS No.: SDG No.: MH1G13

ICP-MS Instrument ID: M1 Start date: 10/25/2005 End date: 10/25/2005

EPA Sample No.	Time	Internal Standards %RI for:									
		Element LI6	Q	Element SC45	Q	Element Y89	Q	Element RH103	Q	Element IN115	Q
CCB		94		91		91		90		90	

USEPA - CLP

15-IN
ICP-MS Internal Standards Relative Intensity Summary

Lab Name: Sentinel, Inc. Contract: 68-W-02-060

Lab Code: SENTIN Case No.: 34642 NRAS No.: SDG No.: MH1G13

ICP-MS Instrument ID: M1 Start date: 10/25/2005 End date: 10/25/2005

EPA Sample No.	Time	Internal Standards %RI for: Element TB159	Q	Element HO165	Q	Element BI209	Q	Element	Q	Element	Q
S0	1910	100		100		100					
S200.0	1915	108		103		105					
ICV	1921	106		102		104					
ICB	1927	97		99		98					
CRI	1932	99		99		100					
ICSA	1938	121		120		115					
ICSAB	1944	123		122		120					
CCV	1950	111		107		110					
CCB	1955	102		102		102					
PBW	2001	102		103		102					
LCSW	2007	109		104		107					
MH1G13L	2013	104		104		103					
MH1G13	2018	108		105		102					
MH1G13D	2024	105		103		99					
MH1G13S	2030	104		99		98					
MH1G13A	2035	100		99		98					
MH1G15	2041	101		100		97					
MH1G17	2047	103		100		97					
CCV	2058	101		97		100					
CCB	2104	92		94		94					
MH1G19	2110	100		99		96					
MH1G21	2115	100		97		95					
MH1G23	2121	97		95		94					
MH1G25	2127	96		95		92					
MH1G27	2132	98		95		93					
MH1G29	2138	107		106		103					
CRI	2149	92		93		93					
CCV	2155	97		94		96					
CCB	2201	90		92		92					
MH1G31	2207	96		94		94					
MH1G36	2212	91		91		92					
MH1G37	2218	90		91		91					
MH1G38	2224	92		91		91					
MH1G39	2229	91		91		94					
CRI	2241	89		90		91					
CCV	2246	97		94		96					

USEPA - CLP

15-IN

ICP-MS Internal Standards Relative Intensity Summary

Lab Name: Sentinel, Inc. Contract: 68-W-02-060

Lab Code: SENTIN Case No.: 34642 NRAS No.: SDG No.: MH1G13

ICP-MS Instrument ID: M1 Start date: 10/25/2005 End date: 10/25/2005

EPA Sample No.	Time	Internal Standards %RI for:									
		Element TB159	Q	Element HO165	Q	Element BI209	Q	Element	Q	Element	Q
CCB		89		90		90					

FORM XV - IN ILM05.3

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Sentinel, Inc. **Sample Analysis**

ICP-MS RUN LOG

SDG:	MH1G13	
CASE NO.:	34642	
EPA RUN#	___1___	
EPA BATCH#	___1___	
PREP METHOD:	HW2	
AN. METHOD:	MS	
MATRIX:	LW	
SOURCE:	CAL Std.	W-MEB156010
SOURCE:		ICV1201
SOURCE:	CAL VER	RCICP10028
SOURCE:	CRI	X-MEB156047
DATE PREP.	10-01-05	
PREPARER:	MVK/KO	

VALID DATA for: ALL

ANALYST: MVK

INSTRUMENT ID: **M1**
RUN ID: **M1-0529802**

RUN START DATE: **10/25/05** RUN START TIME: **1902**
RUN END DATE: **10/25/05** RUN END TIME: **2252**

Data Reviewed By:

D. Wood 11/01/05
Analyst Date

Data Reviewed By:

11/2/05
Supervisor Date

SENTINEL, INC. **SAMPLE ANALYSIS**

Form 14 Raw Data

Date: 10/252005
Time: 8:03:29
SDG: MH1613

Measured Mass	Mass DAC	Peak Height (10%) (0.65-0.80)	Error (AMU) (±0.10)
9.012	2074	0.714	0.01
23.985	5884	0.765	-0.014
24.986	6138	0.714	-0.018
25.983	6391	0.765	-0.022
58.933	14793	0.765	-0.014
112.904	28567	0.764	0.023
114.904	29074	0.764	0.01
205.974	52318	0.764	0.009
206.976	52565	0.764	-0.025
207.977	52825	0.764	-0.007

10/25/05 11/21/05

Analyst Date Supervisor Date

Excluded In Calib | Excluded In Results | Peak Run Excluded | Multi Element | Semi Quant | Internal Standard | Standard Addition

Dilution Corrected Concentration Per Analyte

S-Calibration Has Edited Standard E-Calibration Edited I-Invalid Calibration V-Valley Integration Failed
F-Interference Correction Failed T-Tripped P-Pulse Counting M-Result Over Max

Run	Label	TimeStamp	6Li	7Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K	44Ca
			ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	tune1	10/25/2005 7:02:44 F	(P)0.922	(P)0.0000	(P)192.3000	(P)160.3000	(P)126.8000	(P)207.1000	(P)206.9000	(P)2.1000	(P)122.1000	(P)20.4200
2	tune1	10/25/2005 7:03:40 F	(P)0.916	(P)0.0000	(P)191.7000	(P)166.3000	(P)125.2000	(P)207.8000	(P)208.8000	(P)2.5610	(P)121.3000	(P)21.4200
3	tune1	10/25/2005 7:04:36 F	(P)0.937	(P)0.0000	(P)199.4000	(P)165.7000	(P)128.9000	(P)212.0000	(P)211.0000	(P)3.6710	(P)128.3000	(P)21.0000
4	tune1	10/25/2005 7:05:32 F	(P)0.904	(P)0.0000	(P)190.6000	(P)165.7000	(P)123.7000	(P)206.3000	(P)207.6000	(P)3.2720	(P)121.6000	(P)20.8000
5	tune1	10/25/2005 7:06:28 F	(P)0.907	(P)0.0000	(P)194.4000	(P)162.1000	(P)125.0000	(P)207.1000	(P)208.2000	(P)2.3970	(P)123.7000	(P)19.2000
	Mean of tune1	10/25/2005 7:02:00 F	(P)0.922	(P)0.0000	(P)193.7000	(P)164.0000	(P)125.9000	(P)208.1000	(P)208.5000	(P)2.8000	(P)123.4000	(P)20.5700
	SD of tune1		(P)n/a	(P)0.0000	(P)3.4830	(P)2.6730	(P)2.0050	(P)2.2740	(P)1.5690	(P)0.6502	(P)2.8630	(P)0.8456
	%RSD of tune1		(P)n/a	(P)0.0000	(P)1.7990	(P)1.6300	(P)1.5920	(P)1.0930	(P)0.7523	(P)23.2200	(P)2.3200	(P)4.1110
1	S0	10/25/2005 7:10:13 F	(P)1.000	(P)0.0000	(P)0.0745	(P)-2.1110	(P)-0.0176	(P)-0.1899	(P)0.0195	(P)-0.5109	(P)6.1390	(P)-0.3578
2	S0	10/25/2005 7:11:09 F	(P)1.010	(P)0.0000	(P)-0.0173	(P)7.8700	(P)-0.0813	(P)0.2224	(P)-0.0062	(P)-0.4166	(P)-4.1850	(P)1.0050
3	S0	10/25/2005 7:12:05 F	(P)0.990	(P)0.0000	(P)-0.0572	(P)-5.7590	(P)0.0989	(P)-0.0325	(P)-0.0133	(P)0.9275	(P)-1.9530	(P)-0.6477
	Mean of S0	10/25/2005 7:10:13 F	(P)1.000	(P)0.0000	(P)0.0000	(P)-0.0000	(P)0.0000	(P)0.0000	(P)0.0000	(P)-0.0000	(P)-0.0000	(P)-0.0000
	SD of S0		(P)n/a	(P)0.0000	(P)0.0675	(P)7.0560	(P)0.0914	(P)0.2081	(P)0.0172	(P)0.8046	(P)5.4320	(P)0.8828
	%RSD of S0		(P)n/a	(P)0.0000	(P)0.0000	(P)0.0000	(P)0.0000	(P)0.0000	(P)0.0000	(P)0.0000	(P)0.0000	(P)0.0000
1	S200	10/25/2005 7:15:54 F	(P)0.999	(P)0.0000	(PM)201.3000	(M)2027.0000	(M)2033.0000	(PM)2005.000	(P)1992.0000	(P)199.1000	1991.0000	(PM)2008.000
2	S200	10/25/2005 7:16:50 F	(P)0.982	(P)0.0000	(P)198.9000	1978.0000	1964.0000	(PM)2010.000	(PM)2012.000	(PM)200.5000	1979.0000	(P)1995.0000
3	S200	10/25/2005 7:17:46 F	(P)0.978	(P)0.0000	(P)199.8000	1995.0000	(M)2003.0000	(P)1985.0000	(P)1996.0000	(PM)200.4000	(M)2030.0000	(P)1997.0000
	Mean of S200	10/25/2005 7:15:54 F	(P)0.999	(P)0.0000	(PM)200.0000	(M)2000.0000	(M)2000.0000	(PM)2000.000	(PM)2000.000	(PM)200.0000	(M)2000.0000	(PM)2000.000
	SD of S200		(P)n/a	(P)0.0000	(PM)1.2090	(M)25.2000	(M)34.5400	(PM)13.4400	(PM)10.6600	(PM)0.7427	(M)26.3400	(PM)6.6000
	%RSD of S200		(P)n/a	(P)0.0000	(PM)0.6045	(M)1.2600	(M)1.7270	(PM)0.6721	(PM)0.5332	(PM)0.3713	(M)1.3170	(PM)0.3300
1	ICV;ICV	10/25/2005 7:21:35 F	(P)0.995	(P)0.0000	(P)99.3500	(M)2037.0000	(P)715.1000	(P)1201.0000	(P)1193.0000	(PM)507.2000	(M)2078.0000	(PM)2077.000
2	ICV;ICV	10/25/2005 7:22:31 F	(P)1.000	(P)0.0000	(P)100.2000	(M)2027.0000	(P)723.4000	(P)1190.0000	(P)1199.0000	(PM)511.2000	(M)2063.0000	(PM)2078.000
3	ICV;ICV	10/25/2005 7:23:27 F	(P)0.991	(P)0.0000	(P)98.8000	(M)2011.0000	(P)712.1000	(P)1202.0000	(P)1187.0000	(PM)504.3000	(M)2055.0000	(PM)2063.000
	Mean of ICV;ICV	10/25/2005 7:21:35 F	(P)0.995	(P)0.0000	(P)99.4500	(M)2025.0000	(P)716.9000	(P)1198.0000	(P)1193.0000	(PM)507.6000	(M)2066.0000	(PM)2073.000
	SD of ICV;ICV		(P)n/a	(P)0.0000	(P)0.6989	(M)13.3100	(P)5.8920	(P)6.2630	(P)5.7080	(PM)3.4910	(M)11.8300	(PM)8.7470
	%RSD of ICV;ICV		(P)n/a	(P)0.0000	(P)0.7028	(M)0.6570	(P)0.8219	(P)0.5229	(P)0.4784	(PM)0.6877	(M)0.5729	(PM)0.4220
1	ICB;ICB	10/25/2005 7:27:17 F	(P)1.027	(P)0.0000	(P)0.0239	(P)7.1850	(P)0.0232	(P)0.2197	(P)0.2783	(P)0.7363	(P)-6.7810	(P)-2.2760
2	ICB;ICB	10/25/2005 7:28:13 F	(P)1.022	(P)0.0000	(P)-0.0319	(P)-1.0020	(P)0.1044	(P)0.3252	(P)0.2237	(P)-0.3775	(P)-8.1100	(P)0.1717
3	ICB;ICB	10/25/2005 7:29:09 F	(P)1.012	(P)0.0000	(P)0.0610	(P)1.4610	(P)0.0527	(P)0.2071	(P)0.1468	(P)1.6150	(P)-5.6520	(P)-1.7950
	Mean of ICB;ICB	10/25/2005 7:27:17 F	(P)1.027	(P)0.0000	(P)0.0177	(P)2.5480	(P)0.0601	(P)0.2507	(P)0.2163	(P)0.6578	(P)-6.8480	(P)-1.3000

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Excluded In Calib | Excluded In Results | Peak Run Excluded | Multi Element | Semi Quant | Internal Standard | Standard Addition

Dilution Corrected Concentration Per Analyte

S-Calibration Has Edited Standard E-Calibration Edited I-Invalid Calibration V-Valley Integration Failed
F-Interference Correction Failed T-Tripped P-Pulse Counting M-Result Over Max

Run	Label	TimeStamp	45Sc	47Ti	51V	52Cr	53Cr	54Fe	55Mn	59Co	60Ni	65Cu
			ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	tune1	10/25/2005 7:02:44 F	(P)1.018	(P)0.0747	(P)0.1674	(P)0.3028	(PI)-1370.000	(P)36.8000	(P)0.1144	(P)196.1000	(P)0.1189	(P)0.1007
2	tune1	10/25/2005 7:03:40 F	(P)1.003	(P)0.0246	(P)0.0752	(P)0.2883	(PI)-1363.000	(P)34.2600	(P)0.0903	(P)196.9000	(P)0.1257	(P)0.0612
3	tune1	10/25/2005 7:04:36 F	(P)1.002	(P)0.0490	(P)-0.2490	(P)0.3184	(PI)-1609.000	(P)35.9200	(P)0.1295	(P)198.1000	(P)0.1589	(P)0.0763
4	tune1	10/25/2005 7:05:32 F	(P)1.005	(P)0.0492	(P)-0.0341	(P)0.3044	(PI)-1397.000	(P)34.8900	(P)0.1059	(P)197.7000	(P)0.1257	(P)0.0535
5	tune1	10/25/2005 7:06:28 F	(P)0.989	(P)0.0484	(P)0.1586	(P)0.2882	(PI)-1307.000	(P)36.0100	(P)0.1240	(P)197.1000	(P)0.1408	(P)0.0605
	Mean of tune1	10/25/2005 7:02:00 F	(P)1.018	(P)0.0492	(P)0.0236	(P)0.3004	(PI)-1409.000	(P)35.5700	(P)0.1128	(P)197.2000	(P)0.1340	(P)0.0704
	SD of tune1		(P)n/a	(P)0.0177	(P)0.1726	(P)0.0127	(PI)116.3000	(P)1.0020	(P)0.0155	(P)0.7617	(P)0.0161	(P)0.0189
	%RSD of tune1		(P)n/a	(P)36.0900	(P)731.3000	(P)4.2170	(PI)8.2490	(P)2.8170	(P)13.7500	(P)0.3863	(P)11.9800	(P)26.7600
1	S0	10/25/2005 7:10:13 F	(P)1.007	(P)0.0412	(P)-0.2125	(P)0.0108	(PI)-140.6000	(P)0.1032	(P)0.0116	(P)0.0060	(P)-0.0160	(P)0.0083
2	S0	10/25/2005 7:11:09 F	(P)0.993	(P)-0.0085	(P)0.1989	(P)-0.0213	(PI)28.0400	(P)-0.5524	(P)-0.0139	(P)-0.0042	(P)0.0159	(P)-0.0083
3	S0	10/25/2005 7:12:05 F	(P)1.000	(P)-0.0328	(P)0.0135	(P)0.0105	(PI)112.5000	(P)0.4492	(P)0.0023	(P)-0.0018	(P)0.0001	(P)-0.0000
	Mean of S0	10/25/2005 7:10:13 F	(P)1.007	(P)0.0000	(P)-0.0000	(P)-0.0000	(PI)0.0000	(P)-0.0000	(P)-0.0000	(P)0.0000	(P)0.0000	(P)0.0000
	SD of S0		(P)n/a	(P)0.0377	(P)0.2060	(P)0.0185	(PI)128.9000	(P)0.5087	(P)0.0129	(P)0.0054	(P)0.0160	(P)0.0083
	%RSD of S0		(P)n/a	(P)0.0000	(P)0.0000	(P)0.0000	(PI)0.0000	(P)0.0000	(P)0.0000	(P)0.0000	(P)0.0000	(P)0.0000
1	S200	10/25/2005 7:15:54 F	(P)0.892	(P)197.9000	(P)198.9000	(P)198.7000	(PIM)396.000	(P)1987.0000	(P)196.9000	(P)198.5000	(PM)200.3000	(P)198.2000
2	S200	10/25/2005 7:16:50 F	(P)0.898	(P)199.8000	(P)199.7000	(P)199.9000	(PI)145.7000	(PM)2007.000	(PM)201.7000	(PM)201.3000	(PM)201.3000	(PM)202.1000
3	S200	10/25/2005 7:17:46 F	(P)0.899	(PM)202.4000	(PM)201.4000	(PM)201.3000	(PI)58.3700	(PM)2006.000	(PM)201.5000	(PM)200.1000	(P)198.4000	(P)199.7000
	Mean of S200	10/25/2005 7:15:54 F	(P)0.892	(PM)200.0000	(PM)200.0000	(PM)200.0000	(PIM)200.000	(PM)2000.000	(PM)200.0000	(PM)200.0000	(PM)200.0000	(PM)200.0000
	SD of S200		(P)n/a	(PM)2.2580	(PM)1.2510	(PM)1.3150	(PIM)175.200	(PM)11.4900	(PM)2.7150	(PM)1.3920	(PM)1.4730	(PM)2.0040
	%RSD of S200		(P)n/a	(PM)1.1290	(PM)0.6253	(PM)0.6576	(PIM)87.6100	(PM)0.5744	(PM)1.3570	(PM)0.6960	(PM)0.7365	(PM)1.0020
1	ICV;ICV	10/25/2005 7:21:35 F	(P)0.903	(P)0.1000	(P)100.7000	(P)98.1800	(PI)136.3000	(P)1002.0000	(P)99.6000	(P)100.0000	(P)96.1900	(P)99.7200
2	ICV;ICV	10/25/2005 7:22:31 F	(P)0.899	(P)0.0554	(P)101.0000	(P)98.3800	(PIM)238.300	(P)1013.0000	(P)99.4400	(P)100.2000	(P)98.4700	(P)100.3000
3	ICV;ICV	10/25/2005 7:23:27 F	(P)0.894	(P)0.2084	(P)98.6800	(P)97.0500	(PI)58.6500	(P)999.4000	(P)97.3300	(P)99.0500	(P)96.0200	(P)99.2100
	Mean of ICV;ICV	10/25/2005 7:21:35 F	(P)0.903	(P)0.1213	(P)100.1000	(P)97.8700	(PIM)144.400	(P)1005.0000	(P)98.7900	(P)99.7400	(P)96.8900	(P)99.7400
	SD of ICV;ICV		(P)n/a	(P)0.0787	(P)1.2490	(P)0.7162	(PIM)90.1200	(P)7.5510	(P)1.2660	(P)0.5982	(P)1.3660	(P)0.5471
	%RSD of ICV;ICV		(P)n/a	(P)64.8900	(P)1.2470	(P)0.7318	(PIM)62.4000	(P)0.7515	(P)1.2820	(P)0.5998	(P)1.4100	(P)0.5485
1	ICB;ICB	10/25/2005 7:27:17 F	(P)1.018	(P)0.0171	(P)0.2205	(P)0.0668	(PI)-23.9600	(P)1.6550	(P)0.0549	(P)-0.0412	(P)-0.0320	(P)-0.0065
2	ICB;ICB	10/25/2005 7:28:13 F	(P)1.013	(P)0.2154	(P)0.2508	(P)0.0221	(PI)66.1500	(P)2.8780	(P)0.0252	(P)-0.0340	(P)0.0617	(P)0.0323
3	ICB;ICB	10/25/2005 7:29:09 F	(P)1.013	(P)0.0168	(P)0.0068	(P)-0.0113	(PI)-26.9200	(P)2.4330	(P)0.0207	(P)-0.0341	(P)0.0784	(P)0.0712
	Mean of ICB;ICB	10/25/2005 7:27:17 F	(P)1.018	(P)0.0831	(P)0.1594	(P)0.0258	(PI)5.0920	(P)2.3220	(P)0.0336	(P)-0.0365	(P)0.0360	(P)0.0323

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Excluded In Calib | Excluded In Results | Peak Run Excluded | Multi Element | Semi Quant | Internal Standard | Standard Addition

Dilution Corrected Concentration Per Analyte

S-Calibration Has Edited Standard E-Calibration Edited I-Invalid Calibration V-Valley Integration Failed
F-Interference Correction Failed T-Tripped P-Pulse Counting M-Result Over Max

Run	Label	TimeStamp	66Zn	75As	76Se	77Ar Cl	78Se	83Kr	89Y	95Mo	103Rh	106Pd
			ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	tune1	10/25/2005 7:02:44 F	(P)2.7110	(P)-0.0505	(P)0.0000	(P)0.0000	(P)1.1180	(P)0.0000	(P)0.981	(P)0.0096	(P)0.994	(P)0.0000
2	tune1	10/25/2005 7:03:40 F	(P)2.5570	(P)0.0329	(P)0.0000	(P)0.0000	(P)1.8930	(P)0.0000	(P)0.970	(P)0.0047	(P)0.973	(P)0.0000
3	tune1	10/25/2005 7:04:36 F	(P)2.5970	(P)0.3390	(P)0.0000	(P)0.0000	(P)0.6923	(P)0.0000	(P)0.967	(P)0.0141	(P)0.974	(P)0.0000
4	tune1	10/25/2005 7:05:32 F	(P)2.8490	(P)-0.0290	(P)0.0000	(P)0.0000	(P)1.4130	(P)0.0000	(P)0.967	(P)0.0141	(P)0.969	(P)0.0000
5	tune1	10/25/2005 7:06:28 F	(P)2.6750	(P)-0.0450	(P)0.0000	(P)0.0000	(P)1.2610	(P)0.0000	(P)0.965	(P)0.0000	(P)0.969	(P)0.0000
	Mean of tune1	10/25/2005 7:02:00 F	(P)2.6780	(P)0.0495	(P)0.0000	(P)0.0000	(P)1.2760	(P)0.0000	(P)0.981	(P)0.0085	(P)0.994	(P)0.0000
	SD of tune1		(P)0.1135	(P)0.1652	(P)0.0000	(P)0.0000	(P)0.4375	(P)0.0000	(P)n/a	(P)0.0061	(P)n/a	(P)0.0000
	%RSD of tune1		(P)4.2380	(P)333.9000	(P)0.0000	(P)0.0000	(P)34.2900	(P)0.0000	(P)n/a	(P)72.1900	(P)n/a	(P)0.0000
1	S0	10/25/2005 7:10:13 F	(P)0.0329	(P)-0.0415	(P)0.0000	(P)0.0000	(P)0.0599	(P)0.0000	(P)1.012	(P)0.0034	(P)1.021	(P)0.0000
2	S0	10/25/2005 7:11:09 F	(P)0.0134	(P)0.3798	(P)0.0000	(P)0.0000	(P)-0.3647	(P)0.0000	(P)0.988	(P)-0.0017	(P)0.987	(P)0.0000
3	S0	10/25/2005 7:12:05 F	(P)-0.0464	(P)-0.3383	(P)0.0000	(P)0.0000	(P)0.3047	(P)0.0000	(P)1.000	(P)-0.0017	(P)0.992	(P)0.0000
	Mean of S0	10/25/2005 7:10:13 F	(P)-0.0000	(P)-0.0000	(P)0.0000	(P)0.0000	(P)0.0000	(P)0.0000	(P)1.012	(P)0.0000	(P)1.021	(P)0.0000
	SD of S0		(P)0.0413	(P)0.3608	(P)0.0000	(P)0.0000	(P)0.3387	(P)0.0000	(P)n/a	(P)0.0029	(P)n/a	(P)0.0000
	%RSD of S0		(P)0.0000	(P)0.0000	(P)0.0000	(P)0.0000	(P)0.0000	(P)0.0000	(P)n/a	(P)0.0000	(P)n/a	(P)0.0000
1	S200	10/25/2005 7:15:54 F	(P)198.4000	(P)198.9000	(P)0.0000	(P)0.0000	(P)196.0000	(P)0.0000	(P)0.896	(P)197.3000	(P)0.884	(P)0.0000
2	S200	10/25/2005 7:16:50 F	(PM)200.2000	(PM)200.8000	(P)0.0000	(P)0.0000	(PM)200.3000	(P)0.0000	(P)0.904	(PM)201.6000	(P)0.894	(P)0.0000
3	S200	10/25/2005 7:17:46 F	(PM)201.4000	(PM)200.3000	(P)0.0000	(P)0.0000	(PM)203.6000	(P)0.0000	(P)0.899	(PM)201.1000	(P)0.897	(P)0.0000
	Mean of S200	10/25/2005 7:15:54 F	(PM)200.0000	(PM)200.0000	(P)0.0000	(P)0.0000	(PM)200.0000	(P)0.0000	(P)0.896	(PM)200.0000	(P)0.884	(P)0.0000
	SD of S200		(PM)1.5280	(PM)0.9563	(P)0.0000	(P)0.0000	(PM)3.7970	(P)0.0000	(P)n/a	(PM)2.3660	(P)n/a	(P)0.0000
	%RSD of S200		(PM)0.7640	(PM)0.4782	(P)0.0000	(P)0.0000	(PM)1.8980	(P)0.0000	(P)n/a	(PM)1.1830	(P)n/a	(P)0.0000
1	ICV;ICV	10/25/2005 7:21:35 F	(P)192.7000	(P)193.4000	(P)0.0000	(P)0.0000	(P)199.2000	(P)0.0000	(P)0.913	(P)0.1548	(P)0.937	(P)0.0000
2	ICV;ICV	10/25/2005 7:22:31 F	(P)198.0000	(P)197.4000	(P)0.0000	(P)0.0000	(PM)205.0000	(P)0.0000	(P)0.917	(P)0.0698	(P)0.935	(P)0.0000
3	ICV;ICV	10/25/2005 7:23:27 F	(P)194.0000	(P)193.9000	(P)0.0000	(P)0.0000	(P)197.4000	(P)0.0000	(P)0.903	(P)0.0827	(P)0.940	(P)0.0000
	Mean of ICV;ICV	10/25/2005 7:21:35 F	(P)194.9000	(P)194.9000	(P)0.0000	(P)0.0000	(PM)200.5000	(P)0.0000	(P)0.913	(P)0.1025	(P)0.937	(P)0.0000
	SD of ICV;ICV		(P)2.7640	(P)2.1820	(P)0.0000	(P)0.0000	(PM)3.9720	(P)0.0000	(P)n/a	(P)0.0458	(P)n/a	(P)0.0000
	%RSD of ICV;ICV		(P)1.4180	(P)1.1190	(P)0.0000	(P)0.0000	(PM)1.9810	(P)0.0000	(P)n/a	(P)44.7400	(P)n/a	(P)0.0000
1	ICB;ICB	10/25/2005 7:27:17 F	(P)0.0045	(P)-0.2455	(P)0.0000	(P)0.0000	(P)0.3538	(P)0.0000	(P)1.031	(P)0.0236	(P)1.037	(P)0.0000
2	ICB;ICB	10/25/2005 7:28:13 F	(P)-0.1676	(P)-0.6672	(P)0.0000	(P)0.0000	(P)-1.4280	(P)0.0000	(P)1.019	(P)0.0330	(P)1.014	(P)0.0000
3	ICB;ICB	10/25/2005 7:29:09 F	(P)-0.2043	(P)0.1789	(P)0.0000	(P)0.0000	(P)0.4895	(P)0.0000	(P)1.011	(P)0.0132	(P)1.019	(P)0.0000
	Mean of ICB;ICB	10/25/2005 7:27:17 F	(P)-0.1224	(P)-0.2446	(P)0.0000	(P)0.0000	(P)-0.1950	(P)0.0000	(P)1.031	(P)0.0233	(P)1.037	(P)0.0000