USEPA - CLP

COVER PAGE

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39551 NRAS No.: _____ SDG No.: MF3FX7

SOW No.: ILM05.4

EPA Sample No.	Lab Sample ID
MF3FX7	B1560-01
MF3FX8	B1560-10
MF3FX9	B1560-11
MF3FY0	B1560-18
MF3FY1	B1560-02
MF3FY2	B1560-03
MF3FY3	B1560-04
MF3FY3D	B1560-05
MF3FY3S	B1560-06
MF3FY4	B1560-07
MF3FY6	B1560-12
MF3FY7	B1560-13
MF3FY8	B1560-19
MF3FZ0	B1560-08
MF3FZ1	B1560-09
MF3FZ2	B1560-14
MF3FZ3	B1560-15
MF3FZ5	B1560-16
MF3FZ6	B1560-17
MF3FZ8	B1560-20
MF3G01	B1560-21

		ICP-AES	ICP-MS
Were ICP-AES and ICP-MS interelement corrections applied?	(Yes/No)	YES	
Were ICP-AES and ICP-MS background corrections applied?	(Yes/No)	YES	
If yes, were raw data generated before application of background corrections?	(Yes/No)	NO	

Comments:

THE "E" QUALIFIERS ON FORM I AND VIII FOR ALUMINUM INDICATE CHEMICAL OR PHYSICAL INTERFERENCE EFFECTS, WHICH WERE SUSPECTED DURING THAT ELEMENT'S ANALYSES ONLY.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette (or via an alternate means of electronic transmission, if approved in advance by USEPA) has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Mildred V Reyes Name: MILDRED V. REYES

Date: 3/17/10 Title: DOCUMENT CONTROL OFFICER

622113

CHEMTECH
284 Sheffield Street
Mountainside, NJ 07092

SDG NARRATIVE

USEPA
SDG # MF3FX7
CASE # 39551
CONTRACT # EPW08065
LAB NAME: CHEMTECH CONSULTING GROUP
LAB CODE: CHEM
CHEMTECH PROJECT # B1560

A. Number of Samples and Date of Receipt

19 Water Samples were delivered to the laboratory intact on 03/10/10 & 03/11/10 & 03/12/10

B. Parameters

Test requested for Metals CLP FULL (by ICP-AES) Hg & CN.

C. Cooler Temp

Indicator Bottle: **Presence**/Absence
Cooler: 3°C

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

E. Corrective Action taken for above:

F. Analytical Techniques:

All analyses were based on CLP Methodology by method ILM05.4

G. Calculation:

***Calculation example for ICP-AES Water Sample*:**

Results reported in Ug/L = Results in ppm X 1000 X Dilution Factor (if any) X Fraction of Sample Amount Taken in ICP Water- Prep

CHEMTECH
284 Sheffield Street
Mountainside, NJ 07092

Fraction of Sample Amount Taken in ICP Water- Prep = 100/100 or 50/50 =1
(if 100 ml Initial Volume taken and Final Volume was made to 100 ml or 50 ml Initial Volume and Final Volume made to 50 ml in ICP-AES Water Digestion procedure)

Calculation example for Hg Water Sample:

Results reported in Ug/L = Results in ppb X Dilution Factor (if any) X Fraction of Sample Amount Taken in Water Hg-Prep.

Fraction of Sample Amount Taken in Water Hg-Prep = 100/100 =1
(if 100 ml Initial Volume taken and made it to Final Volume as 100 ml)

Calculation example for CN Water Sample:

Results reported in Ug/L = Results in Ug/L X Dilution Factor (if any) X Fraction of Sample Amount Taken in Water CN-Prep.

Fraction of Sample Amount Taken in Water CN-Prep = 50/50 =1
(if 50 ml Initial Volume taken and made it to Final Volume as 50 ml)

H. QA/ QC

Calibrations met requirements. Interference check met requirements. Blank analyses did not indicate any presence of contamination. Laboratory Control sample was within control limits. Spike sample did meet requirements except for Iron. Duplicate sample did meet requirements. Serial Dilution did meet requirements except for Aluminum.

I certify that the data package is in compliance with the terms and conditions of the contract both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Director or his designee, as verified by the following signature.

Signature Mildred V Reyes Name: Mildred V. Reyes

Date 3/17/10 Title: Document Control Officer

SAMPLE LOG-IN SHEET

Lab Name CHEMTECH CONSULTING GROUP

Received By (Print Name) Kenny	Log-in Date **3/10/2010**
Received By (Signature) Kenny	
Case Number 39551	Sample Delivery Group No. MF3FX7 / NRAS Number N/A

Remarks:

1. Custody Seal(s) — Present/Absent* — Intact/Broken
2. Custody Seal Nos. — N/A
3. Traffic Reports/Chain Of Custody Records or Packing Lists — Present/Absent*
4. Airbill — Airbill/Sticker Present/Absent*
5. Airbill No. — 8717602411 74
6. Sample Tags Sample Tag # — Present/Absent* — Listed/Not Listed On TR/ Chain-of-Custody
7. Sample Condition — Intact/Broken*/Leaking
8. Cooler Temperature Indicator Bottle — Present/Absent*
9. Cooler Temperature — 3°C
10. Does information on custody records, traffic reports, and sample tags agree? — Yes/No*
11. Date Received at Lab — 3/10/10
12. Time Received — 9:05

Corresponding

EPA Sample #	Aqueous Sample pH	Sample Tag #	Assigned Lab #	Remarks: Condition of Sample shipment, etc.
MF3FX7	>12, <2	6-487454, 461	B1560-01	Intact
MF3FY1		6-487498, 656	B1560-02	
MF3FY2		6-487660, 667	B1560-03	
MF3FY3		6-487671, 691	B1560-04	
MF3FY3D		6-487672, 692	B1560-05	
MF3FY3S		6-487 L L	B1560-06	
MF3FY4		6-487702, 709	B1560-07	
MF3FZ0		6-487760, 767	B1560-08	
MF3FZ1		6-487771, 778	B1560-09	

Sample Transfer

Fraction CN	Fraction Metals
Area # A31	Area # A31
By Kenny	By Kenny
On 3/10/10	On 3/10/10

* Contact SMO and attach record of resolution

Reviewed By Sneha Mehta	Logbook No.
Date 3/10/10	Logbook Page

SAMPLE LOG-IN SHEET

Lab Name CHEMTECH CONSULTING GROUP

Received By (Print Name) Kenny	Log-in Date **3/11/2010**
Received By (Signature) Kenny	
Case Number 39551	Sample Delivery Group No. MF3FX7 / NRAS Number NA

Remarks:

1. Custody Seal(s) Present/Absent* Intact/Broken
2. Custody Seal Nos. NA
3. Traffic Reports/Chain Of Custody Records or Packing Lists Present/Absent*
4. Airbill Airbill/Sticker Present/Absent*
5. Airbill No. 871760241141
6. Sample Tags Sample Tag # Present/Absent* Listed/Not Listed On TR/ Chain-of-Custody
7. Sample Condition Intact/Broken*/Leaking
8. Cooler Temperature Indicator Bottle Present/Absent*
9. Cooler Temperature 3°C
10. Does information on custody records, traffic reports, and sample tags agree? Yes/No*
11. Date Received at Lab 3/11/10
12. Time Received 9:20

Corresponding

EPA Sample #	Aqueous Sample pH	Sample Tag #	Assigned Lab #	Remarks: Condition of Sample shipment, etc.
MF3FX8	>12, <2	6-487465, 472	B1560-10	Intact
MF3FX9		6-487476, 483	B1560-11	
MF3FY6		6-487716, 723	B1560-12	
MF3FY7		6-487727, 734	B1560-13	
MF3FZ2		6-487782, 789	B1560-14	
MF3FZ3		6-487793, 800	B1560-15	
MF3FZ5		6-487807, 814	B1560-16	
MF3FZ6		6-487818, 825	B1560-17	

Sample Transfer

Fraction CN	Fraction metals
Area # A31	Area # A31
By Kenny	By Kenny
On 3/11/10	On 3/11/10

* Contact SMO and attach record of resolution

Reviewed By Serena Mena	Logbook No.
Date 3/11/10	Logbook Page

SAMPLE LOG-IN SHEET

Lab Name CHEMTECH CONSULTING GROUP

Received By (Print Name) Kenny	Log-in Date **3/12/2010**
Received By (Signature) Kenny	
Case Number 39551	Sample Delivery Group No. MF3FX7 / NRAS Number N/A

Remarks:

1. Custody Seal(s) Present/Absent* Intact/Broken
2. Custody Seal Nos. N/A
3. Traffic Reports/Chain Of Custody Records or Packing Lists Present/Absent*
4. Airbill Airbill/Sticker Present/Absent*
5. Airbill No. 8705369374142
6. Sample Tags Present/Absent* Sample Tag # Listed/Not Listed On TR/ Chain-of-Custody
7. Sample Condition Intact/Broken*/Leaking
8. Cooler Temperature Indicator Bottle Present/Absent*
9. Cooler Temperature 3°C
10. Does information on custody records, traffic reports, and sample tags agree? Yes/No*
11. Date Received at Lab 3/12/10
12. Time Received 9:15

Corresponding

EPA Sample #	Aqueous Sample pH	Sample Tag #	Assigned Lab #	Remarks: Condition of Sample shipment, etc.
MF3FY0	7 12, 2 2	6-487487, 494	B1560-18	Intact
MF3FY8		6-487738, 745	B1560-19	
MF3FZ8		6-487840, 847	B1560-20	
MF3G01		6-487893, 900	B1560-21	

Sample Transfer

Fraction CN	Fraction Metals
Area # A31	Area # A31
By Kenny	By Kenny
On 3/12/10	On 3/12/10

* Contact SMO and attach record of resolution

Reviewed By Sorenal Mehta	Logbook No.
Date 3/12/10	Logbook Page

FULL INORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

LABORATORY NAME **CHEMTECH CONSULTING GROUP, INC.**
CITY/STATE **MOUNTAINSIDE, NJ**

CASE NO. **39551** SDG NO. **MF3FX7**
SDG NOs TO FOLLOW
NRAS NO.

CONTRACT NO. **EPW08065**
SOW NO. **ILM05.4**

All documents delivered in the Complete SDG File must be original documents where possible. (Reference – Exhibit B Section 2.6)

	PAGE NOs FROM	PAGE NOs TO	CHECK LAB	CHECK REGION
1. Cover Page	1	1	√	✓
2. SDG Narrative	2	3	√	✓
3. Sample Log-In Sheet (DC-1)	4	6	√	✓
4. Inventory Sheet (DC-2)	7	8	√	✓
5. Traffic Report/Chain of Custody Record(s)	9	12	√	✓
Inorganic Analysis				
6. Data Sheet (Form IA-IN)	13	31	√	✓
7. Initial & Continuing Calibration Verification (Form IIA-IN)	32	36	√	✓
8. CRQL Standard (Form IIB-IN)	37	40	√	✓
9. Blanks (Form III-IN)	41	44	√	✓
10. ICP-AES Interference Check Sample (Form IVA-IN)	45	47	√	✓
11. ICP-MS Interference Check Sample (Form IVB-IN)				
12. Matrix Spike Sample Recovery (Form VA-IN)	48	48	√	✓
13. Post-Digestion Spike Sample Recovery (Form VB-IN)	49	49	√	✓
14. Duplicates (Form VI-IN)	50	50	√	✓
15. Laboratory Control Sample (Form VII-IN)	51	53	√	✓
16. ICP-AES and ICP-MS Serial Dilutions (Form VIII-IN)	54	54	√	✓
17. Method Detection Limits (Annually) (Form IX-IN)	55	59	√	✓
18. ICP-AES Interelement Correction Factors (Quarterly) (Form XA-IN)	60	60	√	✓
19. ICP-AES Interelement Correction Factors (Quarterly) (Form XB-IN)	61	64	√	✓
20. ICP-AES and ICP-MS Linear Ranges (Quarterly) (Form XI-IN)	65	65	√	✓
21. Preparation Log (Form XII-IN)	66	71	√	✓

	PAGE NOs FROM	PAGE NOs TO	CHECK LAB	CHECK REGION
22. Analysis Run Log (Form XIII-IN)	72	80	√	✓
23. ICP-MS Tune (Form XIV-IN)				
24. ICP-MS Internal Standards Relative Intensity Summary (Form XV-IN)				
25. ICP-AES Raw Data	81	291	√	✓
26. GFAA Raw Data (If Applicable)	N/A	N/A		
27. ICP-MS Raw Data				
28. Mercury Raw Data	292	305	√	✓
29. Cyanide Raw Data	306	364	√	✓
30. Preparation Logs Raw Data	365	385	√	✓
31. Percent Solids Determination Log				
32. USEPA Shipping/Receiving Documents				
Airbill (No. of Shipments ~~1~~ 3 3/24/10 [illegible])	386	388	√	✓
Sample Tags *(In a Plastic Bag w/ Page #)*	408	408	√	✓
Sample Log-In Sheet (Lab)	389	399	√	✓
33. Misc. Shipping/Receiving Records (list all individual records)				
Telephone Logs				
34. Internal Lab Sample Transfer Records & Tracking Sheets (describe or list)				
Internal Lab COC	400	407	√	✓
35. Internal Original Sample Prep & Analysis Records (describe or list)				
Prep Records				
Analysis Records				
Description				
36. Other Records (describe or list)				
Telephone Communications Log				

37. Comments: _____

Completed By:
(CLP Lab) Mildred V Reyes (Signature) — **Mildred V. Reyes, Document Control Officer** (Print Name & Title) — 3/17/10 (Date)

Audited By:
~~(USEPA)~~ ESAT [illegible] (Signature) — Sonya Meekins (Print Name & Title) — 3/24/10 (Date)

FORM DC-2-2 ILM05.4

Sample Delivery Group (SDG)
Cover Sheet

More Samples Assoc to SDG # MF3FX7 on 3/12/10

SDG Number: MF3FX7

[X] ICP-AES Analysis [ ] ICP-MS Analysis

Laboratory	CHEMTECH	Laboratory	CHEM
Contract No.	EPW08065	Case No.	39551
Analysis Price		SDG Turnaround	7 days

Modified Analysis (if applicable):

Modification Reference No: N/A

USEPA Sample Numbers in SDG (Listed in Numerical Order)

MF3FX7	MF3FX8	MF3FX9	MF3FY0
MF3FY1	MF3FY2	MF3FY3	MF3FY3D
MF3FY3S	MF3FY4	MF3FY6	MF3FY7
MF3FY8	MF3FZ0	MF3FZ1	MF3FZ2
MF3FZ3	MF3FZ5	MF3FZ6	MF3FZ8
MF3G01			

First Sample in SDG: MF3FX7

Last Sample in SDG: MF3G01

First Sample Receipt Date: 3/10/2010 9:05:00 AM

Last Sample Receipt Date: 3/12/2010 9:15:00 AM

Note There are a maximum of 20 **field** samples (excluding PE samples) in an SDG.
Attach TR/COC Records to this form in alphanumeric order (the order listed above on this form).

Signature Sreenac Menon Date 3/12/10

USEPA Contract Laboratory Program
Inorganic Traffic Report & Chain of Custody Record

Case No:	39551
DAS No:	
SDG No:	MF3FX7

L

Date Shipped:	3/9/2010
Carrier Name:	FedEx
Airbill:	871760241174
Shipped to:	ChemTech Consulting Group 284 Sheffield Street Mountainside NJ 07092 (908) 789-8900

Chain of Custody Record

Sampler Signature: Gary Hazelwood

Relinquished By	(Date / Time)	Received By	(Date / Time)
1 Gary Johnson	3/9/10 16:40	Ken Rivera	3/10/10 9:05
2			
3			
4			

For Lab Use Only

Lab Contract No:	EPW08065
Unit Price:	
Transfer To:	
Lab Contract No:	
Unit Price:	

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	ORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
MF3FX7	Ground Water/ Gary Hazelwood	L/G	CN (7), TM/HG (7)	6-487454 (NaOH), 6-487461 (HNO3) (2)	GW-01	S: 3/9/2010 9:12	F3FX7	
MF3FY1	Ground Water/ Gary Hazelwood	L/G	CN (7), TM/HG (7)	6-487498 (NaOH), 6-487656 (HNO3) (2)	GW-05	S: 3/9/2010 15:32	F3FY1	
MF3FY2	Ground Water/ Gary Hazelwood	L/G	CN (7), TM/HG (7)	6-487660 (NaOH), 6-487667 (HNO3) (2)	GW-06	S: 3/9/2010 11:29	F3FY2	
MF3FY3	Ground Water/ Gary Hazelwood	L/G	CN (7), TM/HG (7)	6-487671 (NaOH), 6-487672 (NaOH), 6-487691 (HNO3), 6-487692 (HNO3) (4)	GW-07	S: 3/9/2010 10:10	F3FY3	
MF3FY4	Ground Water/ Gary Hazelwood	L/G	CN (7), TM/HG (7)	6-487702 (NaOH), 6-487709 (HNO3) (2)	GW-08	S: 3/9/2010 10:30	F3FY4	
MF3FZ0	Ground Water/ Gary Hazelwood	L/G	CN (7), TM/HG (7)	6-487760 (NaOH), 6-487767 (HNO3) (2)	GW-14	S: 3/9/2010 12:14	F3FZ0	
MF3FZ1	Ground Water/ Gary Hazelwood	L/G	CN (7), TM/HG (7)	6-487771 (NaOH), 6-487778 (HNO3) (2)	GW-15	S: 3/9/2010 14:43	F3FZ1	

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC: MF3FY3	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 3 °C	Chain of Custody Seal Number: N/A
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Custody Seal Intact? Yes	Shipment Iced? Yes

CN = CLP Cyanide, TM/HG = CLP TCL Total Metals/Mercury

TR Number: 6-043013577-030910-0001

LABORATORY COPY

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Sample Management Office, Attn: Heather Bauer, CSC, 15000 Conference Center Dr., Chantilly, VA 20151-3819; Phone 703/818-4200; Fax 703/818-4602

USEPA Contract Laboratory Program
Inorganic Traffic Report & Chain of Custody Record

Case No: 39551
DAS No:
SDG No: MF3FX7

L

Date Shipped:	3/10/2010
Carrier Name:	FedEx
Airbill:	871760241141
Shipped to:	ChemTech Consulting Group 284 Sheffield Street Mountainside NJ 07092 (908) 789-8900

Chain of Custody Record

Sampler Signature: Gary Hazelwood

Relinquished By	(Date / Time)	Received By	(Date / Time)
1 Gary Johnson	03/10/10 1740	Ken Rivera	3/11/10 9:20
2			
3			
4			

For Lab Use Only

Lab Contract No: EPW08065
Unit Price:
Transfer To:
Lab Contract No:
Unit Price:

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	ORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
MF3FX8	Ground Water/ Gary Hazelwood	L/G	CN (7), TM/HG (7)	6-487465 (NaOH), 6-487472 (HNO3) (2)	GW-02	S: 3/10/2010 9:48	F3FX8	
MF3FX9	Ground Water/ Gary Hazelwood	L/G	CN (7), TM/HG (7)	6-487476 (NaOH), 6-487483 (HNO3) (2)	GW-03	S: 3/10/2010 10:35	F3FX9	
MF3FY6	Ground Water/ Gary Hazelwood	L/G	CN (7), TM/HG (7)	6-487716 (NaOH), 6-487723 (HNO3) (2)	GW-10	S: 3/10/2010 12:45	F3FY6	
MF3FY7	Ground Water/ Gary Hazelwood	L/G	CN (7), TM/HG (7)	6-487727 (NaOH), 6-487734 (HNO3) (2)	GW-11	S: 3/10/2010 13:22	F3FY7	
MF3FZ2	Ground Water/ Gary Hazelwood	L/G	CN (7), TM/HG (7)	6-487782 (NaOH), 6-487789 (HNO3) (2)	GW-16	S: 3/10/2010 15:00	F3FZ2	
MF3FZ3	Ground Water/ Gary Hazelwood	L/G	CN (7), TM/HG (7)	6-487793 (NaOH), 6-487800 (HNO3) (2)	GW-17	S: 3/10/2010 15:35	F3FZ3	
MF3FZ5	Ground Water/ Gary Hazelwood	L/G	CN (7), TM/HG (7)	6-487807 (NaOH), 6-487814 (HNO3) (2)	GW-19	S: 3/10/2010 11:40	F3FZ5	
MF3FZ6	Ground Water/ Gary Hazelwood	L/G	CN (7), TM/HG (7)	6-487818 (NaOH), 6-487825 (HNO3) (2)	GW-20	S: 3/10/2010 16:20	F3FZ6	

Shipment for Case Complete?N	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 3°C	Chain of Custody Seal Number: N/A
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? Yes / Shipment Iced? Yes

CN = CLP Cyanide, TM/HG = CLP TCL Total Metals/Mercury

TR Number: 6-043013577-031010-0006

LABORATORY COPY

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Sample Management Office, Attn: Heather Bauer, CSC, 15000 Conference Center Dr., Chantilly, VA 20151-3819; Phone 703/818-4200; Fax 703/818-4602

USEPA Contract Laboratory Program
Inorganic Traffic Report & Chain of Custody Record

Case No:	39551
DAS No:	
SDG No:	MF3FX7

L

Date Shipped:	3/11/2010
Carrier Name:	FedEx
Airbill:	870536934142
Shipped to:	ChemTech Consulting Group 284 Sheffield Street Mountainside NJ 07092 (908) 789-8900

Chain of Custody Record

Sampler Signature: Gary Hazelwood

Relinquished By	(Date / Time)	Received By	(Date / Time)
1 Gary Johnson	3/11/10 1539	Ken Rivera	3/12/10 9:15
2			
3			
4			

For Lab Use Only

Lab Contract No:	EPW08065
Unit Price:	
Transfer To:	
Lab Contract No:	
Unit Price:	

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		ORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
MF3FY0	Ground Water/ Gary Hazelwood	L/G	CN (7), TM/HG (7)	6-487487 (NaOH), 6-487494 (HNO3) (2)	GW-04	S: 3/11/2010	8:00	F3FY0	
MF3FY8	Ground Water/ Gary Hazelwood	L/G	CN (7), TM/HG (7)	6-487738 (NaOH), 6-487745 (HNO3) (2)	GW-12	S: 3/11/2010	11:14	F3FY8	
MF3FZ8	Ground Water/ Gary Hazelwood	L/G	CN (7), TM/HG (7)	6-487840 (NaOH), 6-487847 (HNO3) (2)	GW-22	S: 3/11/2010	10:04	F3FZ8	
MF3G01	Ground Water/ Gary Hazelwood	L/G	CN (7), TM/HG (7)	6-487893 (NaOH), 6-487900 (HNO3) (2)	GW-25	S: 3/11/2010	8:40	F3G01	

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 3°C	Chain of Custody Seal Number: N/A
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? Yes / Shipment Iced? Yes

CN = CLP Cyanide, TM/HG = CLP TCL Total Metals/Mercury

TR Number: 6-043013577-031110-0003

LABORATORY COPY

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Sample Management Office, Attn: Heather Bauer, CSC, 15000 Conference Center Dr., Chantilly, VA 20151-3819; Phone 703/818-4200; Fax 703/818-4602

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MF3FX7

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39551 NRAS No.: _____ SDG No.: MF3FX7

Matrix: (soil/water) WATER Lab Sample ID: B1560-01

Level: (low/med) LOW Date Received: 03/10/2010

% 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	56.0	J	E	P
7440-36-0	Antimony	60.0	U		P
7440-38-2	Arsenic	3.9	J		P
7440-39-3	Barium	143	J		P
7440-41-7	Beryllium	5.0	U		P
7440-43-9	Cadmium	5.0	U		P
7440-70-2	Calcium	138000			P
7440-47-3	Chromium	10.0	U		P
7440-48-4	Cobalt	50.0	U		P
7440-50-8	Copper	25.0	U		P
7439-89-6	Iron	229		N	P
7439-92-1	Lead	2.7	J		P
7439-95-4	Magnesium	8680			P
7439-96-5	Manganese	35.0			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	0.85	J		P
7440-09-7	Potassium	1090	J		P
7782-49-2	Selenium	35.0	U		P
7440-22-4	Silver	10.0	U		P
7440-23-5	Sodium	14400			P
7440-28-0	Thallium	3.1	J		P
7440-62-2	Vanadium	0.63	J		P
7440-66-6	Zinc	114			P
57-12-5	Cyanide	10.0	U		AS

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.

MF3FX8

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39551 NRAS No.: _____ SDG No.: MF3FX7

Matrix: (soil/water) WATER Lab Sample ID: B1560-10

Level: (low/med) LOW Date Received: 03/11/2010

% 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	200	U	E	P
7440-36-0	Antimony	60.0	U		P
7440-38-2	Arsenic	3.2	J		P
7440-39-3	Barium	107	J		P
7440-41-7	Beryllium	5.0	U		P
7440-43-9	Cadmium	5.0	U		P
7440-70-2	Calcium	79800			P
7440-47-3	Chromium	10.0	U		P
7440-48-4	Cobalt	50.0	U		P
7440-50-8	Copper	10.7	J		P
7439-89-6	Iron	105		N	P
7439-92-1	Lead	12.5			P
7439-95-4	Magnesium	14100			P
7439-96-5	Manganese	45.8			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	0.79	J		P
7440-09-7	Potassium	1240	J		P
7782-49-2	Selenium	35.0	U		P
7440-22-4	Silver	10.0	U		P
7440-23-5	Sodium	17300			P
7440-28-0	Thallium	3.1	J		P
7440-62-2	Vanadium	50.0	U		P
7440-66-6	Zinc	10.2	J		P
57-12-5	Cyanide	10.0	U		AS

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.

MF3FX9

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39551 NRAS No.: _____ SDG No.: MF3FX7

Matrix: (soil/water) WATER Lab Sample ID: B1560-11

Level: (low/med) LOW Date Received: 03/11/2010

% 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	200	U	E	P
7440-36-0	Antimony	60.0	U		P
7440-38-2	Arsenic	10.0	U		P
7440-39-3	Barium	102	J		P
7440-41-7	Beryllium	5.0	U		P
7440-43-9	Cadmium	5.0	U		P
7440-70-2	Calcium	84100			P
7440-47-3	Chromium	2.0	J		P
7440-48-4	Cobalt	50.0	U		P
7440-50-8	Copper	25.0	U		P
7439-89-6	Iron	43.0	J	N	P
7439-92-1	Lead	2.4	J		P
7439-95-4	Magnesium	10000			P
7439-96-5	Manganese	4.3	J		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	1.7	J		P
7440-09-7	Potassium	1000	J		P
7782-49-2	Selenium	35.0	U		P
7440-22-4	Silver	10.0	U		P
7440-23-5	Sodium	21200			P
7440-28-0	Thallium	2.1	J		P
7440-62-2	Vanadium	50.0	U		P
7440-66-6	Zinc	9.3	J		P
57-12-5	Cyanide	10.0	U		AS

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.

MF3FY0

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39551 NRAS No.: _____ SDG No.: MF3FX7

Matrix: (soil/water) WATER Lab Sample ID: B1560-18

Level: (low/med) LOW Date Received: 03/12/2010

% 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	200	U	E	P
7440-36-0	Antimony	60.0	U		P
7440-38-2	Arsenic	10.0	U		P
7440-39-3	Barium	122	J		P
7440-41-7	Beryllium	5.0	U		P
7440-43-9	Cadmium	0.33	J		P
7440-70-2	Calcium	142000			P
7440-47-3	Chromium	10.0	U		P
7440-48-4	Cobalt	50.0	U		P
7440-50-8	Copper	8.1	J		P
7439-89-6	Iron	100	U	N	P
7439-92-1	Lead	10.0	U		P
7439-95-4	Magnesium	4610	J		P
7439-96-5	Manganese	0.52	J		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	4.2	J		P
7440-09-7	Potassium	226	J		P
7782-49-2	Selenium	35.0	U		P
7440-22-4	Silver	10.0	U		P
7440-23-5	Sodium	26200			P
7440-28-0	Thallium	25.0	U		P
7440-62-2	Vanadium	50.0	U		P
7440-66-6	Zinc	88.4			P
57-12-5	Cyanide	10.0	U		AS

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.

MF3FY1

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39551 NRAS No.: _____ SDG No.: MF3FX7

Matrix: (soil/water) WATER Lab Sample ID: B1560-02

Level: (low/med) LOW Date Received: 03/10/2010

% 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	200	U	E	P
7440-36-0	Antimony	60.0	U		P
7440-38-2	Arsenic	10.0	U		P
7440-39-3	Barium	140	J		P
7440-41-7	Beryllium	5.0	U		P
7440-43-9	Cadmium	5.0	U		P
7440-70-2	Calcium	117000			P
7440-47-3	Chromium	10.0	U		P
7440-48-4	Cobalt	50.0	U		P
7440-50-8	Copper	25.0	U		P
7439-89-6	Iron	75.2	J	N	P
7439-92-1	Lead	10.0	U		P
7439-95-4	Magnesium	5070			P
7439-96-5	Manganese	23.8			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	0.72	J		P
7440-09-7	Potassium	456	J		P
7782-49-2	Selenium	35.0	U		P
7440-22-4	Silver	10.0	U		P
7440-23-5	Sodium	8660			P
7440-28-0	Thallium	2.1	J		P
7440-62-2	Vanadium	50.0	U		P
7440-66-6	Zinc	5.7	J		P
57-12-5	Cyanide	10.0	U		AS

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.

MF3FY2

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39551 NRAS No.: _____ SDG No.: MF3FX7

Matrix: (soil/water) WATER Lab Sample ID: B1560-03

Level: (low/med) LOW Date Received: 03/10/2010

% 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	39.6	J	E	P
7440-36-0	Antimony	60.0	U		P
7440-38-2	Arsenic	10.0	U		P
7440-39-3	Barium	131	J		P
7440-41-7	Beryllium	5.0	U		P
7440-43-9	Cadmium	0.28	J		P
7440-70-2	Calcium	107000			P
7440-47-3	Chromium	0.94	J		P
7440-48-4	Cobalt	50.0	U		P
7440-50-8	Copper	14.9	J		P
7439-89-6	Iron	453		N	P
7439-92-1	Lead	4.6	J		P
7439-95-4	Magnesium	8130			P
7439-96-5	Manganese	23.2			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	1.6	J		P
7440-09-7	Potassium	782	J		P
7782-49-2	Selenium	35.0	U		P
7440-22-4	Silver	10.0	U		P
7440-23-5	Sodium	10100			P
7440-28-0	Thallium	1.7	J		P
7440-62-2	Vanadium	50.0	U		P
7440-66-6	Zinc	428			P
57-12-5	Cyanide	10.0	U		AS

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.

MF3FY3

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39551 NRAS No.: _____ SDG No.: MF3FX7

Matrix: (soil/water) WATER Lab Sample ID: B1560-04

Level: (low/med) LOW Date Received: 03/10/2010

% 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	283		E	P
7440-36-0	Antimony	60.0	U		P
7440-38-2	Arsenic	10.0	U		P
7440-39-3	Barium	139	J		P
7440-41-7	Beryllium	5.0	U		P
7440-43-9	Cadmium	5.0	U		P
7440-70-2	Calcium	101000			P
7440-47-3	Chromium	3.1	J		P
7440-48-4	Cobalt	50.0	U		P
7440-50-8	Copper	8.8	J		P
7439-89-6	Iron	1840		N	P
7439-92-1	Lead	6.9	J		P
7439-95-4	Magnesium	5040			P
7439-96-5	Manganese	107			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	2.7	J		P
7440-09-7	Potassium	643	J		P
7782-49-2	Selenium	35.0	U		P
7440-22-4	Silver	10.0	U		P
7440-23-5	Sodium	12400			P
7440-28-0	Thallium	25.0	U		P
7440-62-2	Vanadium	1.5	J		P
7440-66-6	Zinc	13.0	J		P
57-12-5	Cyanide	10.0	U		AS

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.

MF3FY4

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39551 NRAS No.: _____ SDG No.: MF3FX7

Matrix: (soil/water) WATER Lab Sample ID: B1560-07

Level: (low/med) LOW Date Received: 03/10/2010

% 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	301		E	P
7440-36-0	Antimony	60.0	U		P
7440-38-2	Arsenic	10.0	U		P
7440-39-3	Barium	141	J		P
7440-41-7	Beryllium	5.0	U		P
7440-43-9	Cadmium	5.0	U		P
7440-70-2	Calcium	103000			P
7440-47-3	Chromium	3.4	J		P
7440-48-4	Cobalt	50.0	U		P
7440-50-8	Copper	25.0	U		P
7439-89-6	Iron	1940		N	P
7439-92-1	Lead	14.6			P
7439-95-4	Magnesium	5200			P
7439-96-5	Manganese	111			P
7439-97-6	Mercury	0.13	J		CV
7440-02-0	Nickel	2.5	J		P
7440-09-7	Potassium	693	J		P
7782-49-2	Selenium	35.0	U		P
7440-22-4	Silver	10.0	U		P
7440-23-5	Sodium	12800			P
7440-28-0	Thallium	2.6	J		P
7440-62-2	Vanadium	1.7	J		P
7440-66-6	Zinc	14.6	J		P
57-12-5	Cyanide	10.0	U		AS

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.

MF3FY6

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39551 NRAS No.: _____ SDG No.: MF3FX7

Matrix: (soil/water) WATER Lab Sample ID: B1560-12

Level: (low/med) LOW Date Received: 03/11/2010

% 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	5670		E	P
7440-36-0	Antimony	60.0	U		P
7440-38-2	Arsenic	10.8			P
7440-39-3	Barium	952			P
7440-41-7	Beryllium	1.4	J		P
7440-43-9	Cadmium	0.78	J		P
7440-70-2	Calcium	171000			P
7440-47-3	Chromium	5.9	J		P
7440-48-4	Cobalt	30.4	J		P
7440-50-8	Copper	69.0			P
7439-89-6	Iron	6530		N	P
7439-92-1	Lead	25.0			P
7439-95-4	Magnesium	5910			P
7439-96-5	Manganese	568			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	24.0	J		P
7440-09-7	Potassium	1970	J		P
7782-49-2	Selenium	35.0	U		P
7440-22-4	Silver	10.0	U		P
7440-23-5	Sodium	12000			P
7440-28-0	Thallium	2.1	J		P
7440-62-2	Vanadium	10.2	J		P
7440-66-6	Zinc	99.5			P
57-12-5	Cyanide	10.0	U		AS

Color Before: BROWN Clarity Before: CLOUDY Texture: _____

Color After: YELLOW Clarity After: CLEAR Artifacts: _____

Comments:

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MF3FY7

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39551 NRAS No.: _____ SDG No.: MF3FX7

Matrix: (soil/water) WATER Lab Sample ID: B1560-13

Level: (low/med) LOW Date Received: 03/11/2010

% 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	42.1	J	E	P
7440-36-0	Antimony	60.0	U		P
7440-38-2	Arsenic	10.0	U		P
7440-39-3	Barium	62.0	J		P
7440-41-7	Beryllium	5.0	U		P
7440-43-9	Cadmium	5.0	U		P
7440-70-2	Calcium	98600			P
7440-47-3	Chromium	10.0	U		P
7440-48-4	Cobalt	50.0	U		P
7440-50-8	Copper	25.0	U		P
7439-89-6	Iron	149		N	P
7439-92-1	Lead	10.0	U		P
7439-95-4	Magnesium	3260	J		P
7439-96-5	Manganese	6.9	J		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	1.5	J		P
7440-09-7	Potassium	534	J		P
7782-49-2	Selenium	35.0	U		P
7440-22-4	Silver	10.0	U		P
7440-23-5	Sodium	6240			P
7440-28-0	Thallium	4.0	J		P
7440-62-2	Vanadium	50.0	U		P
7440-66-6	Zinc	8.4	J		P
57-12-5	Cyanide	10.0	U		AS

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.

MF3FY8

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39551 NRAS No.: _____ SDG No.: MF3FX7

Matrix: (soil/water) WATER Lab Sample ID: B1560-19

Level: (low/med) LOW Date Received: 03/12/2010

% 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	200	U	E	P
7440-36-0	Antimony	60.0	U		P
7440-38-2	Arsenic	10.0	U		P
7440-39-3	Barium	102	J		P
7440-41-7	Beryllium	5.0	U		P
7440-43-9	Cadmium	5.0	U		P
7440-70-2	Calcium	163000			P
7440-47-3	Chromium	10.0	U		P
7440-48-4	Cobalt	50.0	U		P
7440-50-8	Copper	12.7	J		P
7439-89-6	Iron	9.5	J	N	P
7439-92-1	Lead	10.0	U		P
7439-95-4	Magnesium	3410	J		P
7439-96-5	Manganese	15.0	U		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	1.4	J		P
7440-09-7	Potassium	5000	U		P
7782-49-2	Selenium	35.0	U		P
7440-22-4	Silver	10.0	U		P
7440-23-5	Sodium	28900			P
7440-28-0	Thallium	25.0	U		P
7440-62-2	Vanadium	50.0	U		P
7440-66-6	Zinc	6.3	J		P
57-12-5	Cyanide	10.0	U		AS

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.

MF3FZ0

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39551 NRAS No.: _____ SDG No.: MF3FX7

Matrix: (soil/water) WATER Lab Sample ID: B1560-08

Level: (low/med) LOW Date Received: 03/10/2010

% 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	200	U	E	P
7440-36-0	Antimony	60.0	U		P
7440-38-2	Arsenic	10.0	U		P
7440-39-3	Barium	96.6	J		P
7440-41-7	Beryllium	5.0	U		P
7440-43-9	Cadmium	5.0	U		P
7440-70-2	Calcium	76800			P
7440-47-3	Chromium	10.0	U		P
7440-48-4	Cobalt	50.0	U		P
7440-50-8	Copper	25.0	U		P
7439-89-6	Iron	106		N	P
7439-92-1	Lead	10.0	U		P
7439-95-4	Magnesium	12800			P
7439-96-5	Manganese	16.0			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	0.75	J		P
7440-09-7	Potassium	1360	J		P
7782-49-2	Selenium	35.0	U		P
7440-22-4	Silver	10.0	U		P
7440-23-5	Sodium	34300			P
7440-28-0	Thallium	4.3	J		P
7440-62-2	Vanadium	50.0	U		P
7440-66-6	Zinc	31.8	J		P
57-12-5	Cyanide	10.0	U		AS

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.

MF3FZ1

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39551 NRAS No.: _____ SDG No.: MF3FX7

Matrix: (soil/water) WATER Lab Sample ID: B1560-09

Level: (low/med) LOW Date Received: 03/10/2010

% 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	200	U	E	P
7440-36-0	Antimony	60.0	U		P
7440-38-2	Arsenic	10.0	U		P
7440-39-3	Barium	146	J		P
7440-41-7	Beryllium	5.0	U		P
7440-43-9	Cadmium	5.0	U		P
7440-70-2	Calcium	90900			P
7440-47-3	Chromium	10.0	U		P
7440-48-4	Cobalt	50.0	U		P
7440-50-8	Copper	25.0	U		P
7439-89-6	Iron	37.3	J	N	P
7439-92-1	Lead	10.0	U		P
7439-95-4	Magnesium	7040			P
7439-96-5	Manganese	13.8	J		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	0.46	J		P
7440-09-7	Potassium	805	J		P
7782-49-2	Selenium	35.0	U		P
7440-22-4	Silver	10.0	U		P
7440-23-5	Sodium	15500			P
7440-28-0	Thallium	2.3	J		P
7440-62-2	Vanadium	50.0	U		P
7440-66-6	Zinc	6.9	J		P
57-12-5	Cyanide	10.0	U		AS

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.

MF3FZ2

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39551 NRAS No.: _____ SDG No.: MF3FX7

Matrix: (soil/water) WATER Lab Sample ID: B1560-14

Level: (low/med) LOW Date Received: 03/11/2010

% 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	200	U	E	P
7440-36-0	Antimony	60.0	U		P
7440-38-2	Arsenic	10.0	U		P
7440-39-3	Barium	80.4	J		P
7440-41-7	Beryllium	5.0	U		P
7440-43-9	Cadmium	5.0	U		P
7440-70-2	Calcium	61900			P
7440-47-3	Chromium	9.2	J		P
7440-48-4	Cobalt	50.0	U		P
7440-50-8	Copper	25.0	U		P
7439-89-6	Iron	310		N	P
7439-92-1	Lead	10.0	U		P
7439-95-4	Magnesium	14900			P
7439-96-5	Manganese	17.0			P
7439-97-6	Mercury	0.15	J		CV
7440-02-0	Nickel	4.1	J		P
7440-09-7	Potassium	1600	J		P
7782-49-2	Selenium	35.0	U		P
7440-22-4	Silver	10.0	U		P
7440-23-5	Sodium	33800			P
7440-28-0	Thallium	2.2	J		P
7440-62-2	Vanadium	50.0	U		P
7440-66-6	Zinc	4.1	J		P
57-12-5	Cyanide	10.0	U		AS

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.

MF3FZ3

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39551 NRAS No.: _____ SDG No.: MF3FX7

Matrix: (soil/water) WATER Lab Sample ID: B1560-15

Level: (low/med) LOW Date Received: 03/11/2010

% 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	200	U	E	P
7440-36-0	Antimony	60.0	U		P
7440-38-2	Arsenic	3.2	J		P
7440-39-3	Barium	80.5	J		P
7440-41-7	Beryllium	5.0	U		P
7440-43-9	Cadmium	5.0	U		P
7440-70-2	Calcium	61700			P
7440-47-3	Chromium	10.0	U		P
7440-48-4	Cobalt	50.0	U		P
7440-50-8	Copper	25.0	U		P
7439-89-6	Iron	306		N	P
7439-92-1	Lead	10.0	U		P
7439-95-4	Magnesium	14900			P
7439-96-5	Manganese	16.5			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	1.0	J		P
7440-09-7	Potassium	1600	J		P
7782-49-2	Selenium	35.0	U		P
7440-22-4	Silver	10.0	U		P
7440-23-5	Sodium	33500			P
7440-28-0	Thallium	2.2	J		P
7440-62-2	Vanadium	50.0	U		P
7440-66-6	Zinc	13.9	J		P
57-12-5	Cyanide	10.0	U		AS

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.

MF3FZ5

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39551 NRAS No.: _____ SDG No.: MF3FX7

Matrix: (soil/water) WATER Lab Sample ID: B1560-16

Level: (low/med) LOW Date Received: 03/11/2010

% 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	200	U	E	P
7440-36-0	Antimony	60.0	U		P
7440-38-2	Arsenic	10.0	U		P
7440-39-3	Barium	131	J		P
7440-41-7	Beryllium	5.0	U		P
7440-43-9	Cadmium	5.0	U		P
7440-70-2	Calcium	125000			P
7440-47-3	Chromium	10.0	U		P
7440-48-4	Cobalt	50.0	U		P
7440-50-8	Copper	25.0	U		P
7439-89-6	Iron	24.1	J	N	P
7439-92-1	Lead	10.0	U		P
7439-95-4	Magnesium	3910	J		P
7439-96-5	Manganese	1.7	J		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	0.91	J		P
7440-09-7	Potassium	215	J		P
7782-49-2	Selenium	35.0	U		P
7440-22-4	Silver	10.0	U		P
7440-23-5	Sodium	6930			P
7440-28-0	Thallium	2.1	J		P
7440-62-2	Vanadium	50.0	U		P
7440-66-6	Zinc	9.5	J		P
57-12-5	Cyanide	10.0	U		AS

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.

MF3FZ6

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39551 NRAS No.: _____ SDG No.: MF3FX7

Matrix: (soil/water) WATER Lab Sample ID: B1560-17

Level: (low/med) LOW Date Received: 03/11/2010

% 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	200	U	E	P
7440-36-0	Antimony	60.0	U		P
7440-38-2	Arsenic	10.0	U		P
7440-39-3	Barium	107	J		P
7440-41-7	Beryllium	5.0	U		P
7440-43-9	Cadmium	5.0	U		P
7440-70-2	Calcium	92800			P
7440-47-3	Chromium	10.0	U		P
7440-48-4	Cobalt	50.0	U		P
7440-50-8	Copper	25.0	U		P
7439-89-6	Iron	26.6	J	N	P
7439-92-1	Lead	10.0	U		P
7439-95-4	Magnesium	5860			P
7439-96-5	Manganese	1.3	J		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	0.76	J		P
7440-09-7	Potassium	395	J		P
7782-49-2	Selenium	35.0	U		P
7440-22-4	Silver	10.0	U		P
7440-23-5	Sodium	6640			P
7440-28-0	Thallium	25.0	U		P
7440-62-2	Vanadium	50.0	U		P
7440-66-6	Zinc	31.9	J		P
57-12-5	Cyanide	10.0	U		AS

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.

MF3FZ8

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39551 NRAS No.: _____ SDG No.: MF3FX7

Matrix: (soil/water) WATER Lab Sample ID: B1560-20

Level: (low/med) LOW Date Received: 03/12/2010

% 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	18.2	J	E	P
7440-36-0	Antimony	60.0	U		P
7440-38-2	Arsenic	10.0	U		P
7440-39-3	Barium	109	J		P
7440-41-7	Beryllium	5.0	U		P
7440-43-9	Cadmium	5.0	U		P
7440-70-2	Calcium	115000			P
7440-47-3	Chromium	10.0	U		P
7440-48-4	Cobalt	50.0	U		P
7440-50-8	Copper	25.0	U		P
7439-89-6	Iron	50.2	J	N	P
7439-92-1	Lead	10.0	U		P
7439-95-4	Magnesium	3370	J		P
7439-96-5	Manganese	9.5	J		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	2.4	J		P
7440-09-7	Potassium	338	J		P
7782-49-2	Selenium	35.0	U		P
7440-22-4	Silver	0.32	J		P
7440-23-5	Sodium	7340			P
7440-28-0	Thallium	25.0	U		P
7440-62-2	Vanadium	50.0	U		P
7440-66-6	Zinc	14.6	J		P
57-12-5	Cyanide	10.0	U		AS

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.

MF3G01

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39551 NRAS No.: _____ SDG No.: MF3FX7

Matrix: (soil/water) WATER Lab Sample ID: B1560-21

Level: (low/med) LOW Date Received: 03/12/2010

% 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	200	U	E	P
7440-36-0	Antimony	60.0	U		P
7440-38-2	Arsenic	10.0	U		P
7440-39-3	Barium	124	J		P
7440-41-7	Beryllium	5.0	U		P
7440-43-9	Cadmium	0.39	J		P
7440-70-2	Calcium	149000			P
7440-47-3	Chromium	10.0	U		P
7440-48-4	Cobalt	50.0	U		P
7440-50-8	Copper	25.0	U		P
7439-89-6	Iron	100	U	N	P
7439-92-1	Lead	10.0	U		P
7439-95-4	Magnesium	4850	J		P
7439-96-5	Manganese	15.0	U		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	4.2	J		P
7440-09-7	Potassium	216	J		P
7782-49-2	Selenium	35.0	U		P
7440-22-4	Silver	10.0	U		P
7440-23-5	Sodium	27000			P
7440-28-0	Thallium	3.2	J		P
7440-62-2	Vanadium	0.64	J		P
7440-66-6	Zinc	92.3			P
57-12-5	Cyanide	10.0	U		AS

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 CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39551 NRAS No.: _____ SDG No.: MF3FX7

Initial Calibration Verification Source: EPA-0307

Continuing Calibration Verification Source: IVEN-MI17331

Concentration Units: ug/L

	Initial Calibration Verification			Continuing Calibration Verification					
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	M
Aluminum	2521.0	2450.75	97	10000.0	9693.82	97	9693.56	97	P
Antimony	994.0	938.11	94	5000.0	4812.69	96	4979.04	100	P
Arsenic	999.0	952.88	95	5000.0	4797.06	96	4960.67	99	P
Barium	497.0	516.00	104	10000.0	9880.80	99	9677.68	97	P
Beryllium	495.0	473.29	96	250.0	239.46	96	234.65	94	P
Cadmium	496.0	472.66	95	2500.0	2467.84	99	2410.66	96	P
Calcium	10026.0	9838.96	98	25000.0	24457.22	98	23945.12	96	P
Chromium	490.0	498.06	102	1000.0	995.74	100	995.96	100	P
Cobalt	499.0	477.44	96	2500.0	2440.39	98	2440.55	98	P
Copper	492.0	489.26	99	1250.0	1216.24	97	1225.76	98	P
Iron	5082.0	4975.29	98	5000.0	4899.27	98	4822.30	96	P
Lead	1002.0	959.65	96	5000.0	4942.88	99	4805.14	96	P
Magnesium	6074.0	5806.20	96	25000.0	24103.25	96	23595.55	94	P
Manganese	499.0	495.02	99	2500.0	2467.58	99	2403.88	96	P
Mercury	4.1	4.42	108	5.0	4.97	99	4.79	96	CV
Nickel	503.0	480.50	96	2500.0	2460.64	98	2428.85	97	P
Potassium	10021.0	9661.66	96	25000.0	24727.67	99	24265.29	97	P
Selenium	1029.0	944.51	92	5000.0	4838.80	97	4943.34	99	P
Silver	501.0	482.74	96	1250.0	1209.48	97	1180.85	94	P
Sodium	10097.0	9684.74	96	25000.0	24303.91	97	24388.10	98	P
Thallium	1028.0	996.32	97	5000.0	4927.06	99	4947.11	99	P
Vanadium	501.0	512.96	102	2500.0	2489.96	100	2466.28	99	P
Zinc	1025.0	978.53	95	2500.0	2459.14	98	2377.87	95	P
Cyanide	99.0	95.87	97	250.0	245.41	98	256.82	103	AS

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

USEPA - CLP

2A-IN
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39551 NRAS No.: _____ SDG No.: MF3FX7

Initial Calibration Verification Source: EPA-0307

Continuing Calibration Verification Source: IVEN-MI17331

Concentration Units: ug/L

	Initial Calibration Verification			Continuing Calibration Verification					
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	M
Aluminum				10000.0	9575.54	96	9789.97	98	P
Antimony				5000.0	4984.14	100	5152.28	103	P
Arsenic				5000.0	4959.93	99	5135.30	103	P
Barium				10000.0	9626.66	96	9785.50	98	P
Beryllium				250.0	229.16	92	232.97	93	P
Cadmium				2500.0	2314.06	93	2369.74	95	P
Calcium				25000.0	23153.23	93	23412.01	94	P
Chromium				1000.0	981.30	98	1004.52	100	P
Cobalt				2500.0	2371.88	95	2439.59	98	P
Copper				1250.0	1219.27	98	1256.54	101	P
Iron				5000.0	4715.42	94	4797.03	96	P
Lead				5000.0	4606.66	92	4671.48	93	P
Magnesium				25000.0	22948.20	92	23243.83	93	P
Manganese				2500.0	2324.26	93	2351.22	94	P
Mercury				5.0	4.74	95	4.70	94	CV
Nickel				2500.0	2346.28	94	2403.09	96	P
Potassium				25000.0	23959.73	96	24417.06	98	P
Selenium				5000.0	4933.65	99	5091.41	102	P
Silver				1250.0	1140.64	91	1153.19	92	P
Sodium				25000.0	24114.84	96	24536.70	98	P
Thallium				5000.0	4839.46	97	4968.63	99	P
Vanadium				2500.0	2403.42	96	2479.65	99	P
Zinc				2500.0	2315.79	93	2354.69	94	P
Cyanide				250.0	235.97	94	251.03	100	AS

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

USEPA - CLP

2A-IN
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39551 NRAS No.: _____ SDG No.: MF3FX7

Initial Calibration Verification Source: EPA-0307

Continuing Calibration Verification Source: IVEN-MI17331

Concentration Units: ug/L

	Initial Calibration Verification			Continuing Calibration Verification					
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	M
Aluminum				10000.0	9828.79	98	9562.50	96	P
Antimony				5000.0	5139.98	103	4793.22	96	P
Arsenic				5000.0	5141.74	103	4840.30	97	P
Barium				10000.0	9621.86	96	9184.83	92	P
Beryllium				250.0	234.37	94	233.77	94	P
Cadmium				2500.0	2410.11	96	2362.27	94	P
Calcium				25000.0	23418.69	94	23397.41	94	P
Chromium				1000.0	1019.69	102	1015.63	102	P
Cobalt				2500.0	2472.91	99	2367.11	95	P
Copper				1250.0	1259.32	101	1220.41	98	P
Iron				5000.0	4804.78	96	4751.87	95	P
Lead				5000.0	4714.38	94	4543.36	91	P
Magnesium				25000.0	23455.30	94	23437.29	94	P
Manganese				2500.0	2336.17	93	2323.29	93	P
Mercury									NR
Nickel				2500.0	2427.62	97	2324.53	93	P
Potassium				25000.0	24208.27	97	23579.71	94	P
Selenium				5000.0	5065.11	101	4734.15	95	P
Silver				1250.0	1137.10	91	1118.80	90	P
Sodium				25000.0	24580.77	98	23960.33	96	P
Thallium				5000.0	5010.31	100	4814.79	96	P
Vanadium				2500.0	2512.50	101	2563.83	103	P
Zinc				2500.0	2321.36	93	2265.61	91	P
Cyanide	99.0	97.34	98						AS

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

USEPA - CLP

2A-IN
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39551 NRAS No.: _____ SDG No.: MF3FX7

Initial Calibration Verification Source: EPA-0307

Continuing Calibration Verification Source: IVEN-MI17331

Concentration Units: ug/L

	Initial Calibration Verification			Continuing Calibration Verification					
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	M
Aluminum				10000.0	9105.32	91			P
Antimony				5000.0	4529.99	91			P
Arsenic				5000.0	4592.86	92			P
Barium				10000.0	8532.99	85			P
Beryllium				250.0	224.94	90			P
Cadmium				2500.0	2321.31	93			P
Calcium				25000.0	22493.95	90			P
Chromium				1000.0	972.84	97			P
Cobalt				2500.0	2292.09	92			P
Copper				1250.0	1147.59	92			P
Iron				5000.0	4552.39	91			P
Lead				5000.0	4414.49	88			P
Magnesium				25000.0	22629.10	91			P
Manganese				2500.0	2217.79	89			P
Mercury									NR
Nickel				2500.0	2253.27	90			P
Potassium				25000.0	22415.73	90			P
Selenium				5000.0	4461.45	89			P
Silver				1250.0	1071.54	86			P
Sodium				25000.0	22605.45	90			P
Thallium				5000.0	4643.99	93			P
Vanadium				2500.0	2500.63	100			P
Zinc				2500.0	2137.51	86			P
Cyanide	99.0	96.63	98	250.0	242.56	97	262.70	105	AS

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

USEPA - CLP

2A-IN
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39551 NRAS No.: _____ SDG No.: MF3FX7

Initial Calibration Verification Source: _____

Continuing Calibration Verification Source: IVEN-MI17331

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									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead									NR
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide				250.0	248.67	99	260.76	104	AS

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

USEPA - CLP

2B-IN
CRQL CHECK STANDARD

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39551 NRAS No.: _____ SDG No.: MF3FX7

CRQL Check Standard Source: IVEN-MI17333

Concentration Units: ug/L

Analyte	CRQL Check Standard				
	Initial			Final	
	True	Found*	%R(1)	Found*	%R(1)
Aluminum					
Antimony	60.0	59.50 J	99	63.55	106
Arsenic	10.0	10.83	108	9.39 J	94
Barium					
Beryllium	5.0	5.10	102	4.76 J	95
Cadmium	5.0	4.89 J	98	4.57 J	91
Calcium					
Chromium	10.0	10.76	108	10.09	101
Cobalt	50.0	49.75 J	100	48.49 J	97
Copper	25.0	25.35	101	25.55	102
Iron					
Lead	10.0	8.75 J	88	10.12	101
Magnesium					
Manganese	15.0	16.16	108	15.19	101
Mercury	0.2	0.15 J	75	0.15 J	75
Nickel	40.0	40.77	102	38.92 J	97
Potassium					
Selenium	35.0	31.03 J	89	34.24 J	98
Silver	10.0	10.27	103	9.84 J	98
Sodium					
Thallium	25.0	27.02	108	26.02	104
Vanadium	50.0	55.90	112	53.25	107
Zinc	60.0	63.77	106	60.31	101
Cyanide	10.0	11.92	119	10.73	107

(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 CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39551 NRAS No.: _____ SDG No.: MF3FX7

CRQL Check Standard Source: IVEN-MI17333

Concentration Units: ug/L

Analyte	CRQL Check Standard				
	Initial			Final	
	True	Found*	%R(1)	Found*	%R(1)
Aluminum					
Antimony	60.0			61.94	103
Arsenic	10.0			10.22	102
Barium					
Beryllium	5.0			4.91 J	98
Cadmium	5.0			4.82 J	96
Calcium					
Chromium	10.0			10.85	109
Cobalt	50.0			49.94 J	100
Copper	25.0			25.82	103
Iron					
Lead	10.0			9.59 J	96
Magnesium					
Manganese	15.0			15.12	101
Mercury	0.2			0.20 J	100
Nickel	40.0			39.74 J	99
Potassium					
Selenium	35.0			34.66 J	99
Silver	10.0			9.38 J	94
Sodium					
Thallium	25.0			26.58	106
Vanadium	50.0			54.99	110
Zinc	60.0			61.13	102
Cyanide	10.0			11.37	114

(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 CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39551 NRAS No.: _____ SDG No.: MF3FX7

CRQL Check Standard Source: IVEN-MI17333

Concentration Units: ug/L

Analyte	CRQL Check Standard				
	Initial			Final	
	True	Found*	%R(1)	Found*	%R(1)
Aluminum					
Antimony	60.0			57.02 J	95
Arsenic	10.0			9.60 J	96
Barium					
Beryllium	5.0			4.70 J	94
Cadmium	5.0			4.72 J	94
Calcium					
Chromium	10.0			10.04	100
Cobalt	50.0			46.92 J	94
Copper	25.0			23.39 J	94
Iron					
Lead	10.0			8.82 J	88
Magnesium					
Manganese	15.0			14.60 J	97
Mercury					
Nickel	40.0			37.68 J	94
Potassium					
Selenium	35.0			29.79 J	85
Silver	10.0			9.17 J	92
Sodium					
Thallium	25.0			25.39	102
Vanadium	50.0			55.06	110
Zinc	60.0			55.49 J	92
Cyanide	10.0	9.74 J	97	8.44 J	84

(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 CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39551 NRAS No.: _____ SDG No.: MF3FX7

CRQL Check Standard Source: IVEN-MI17333

Concentration Units: ug/L

Analyte	CRQL Check Standard				
	Initial			Final	
	True	Found*	%R(1)	Found*	%R(1)
Aluminum					
Antimony					
Arsenic					
Barium					
Beryllium					
Cadmium					
Calcium					
Chromium					
Cobalt					
Copper					
Iron					
Lead					
Magnesium					
Manganese					
Mercury					
Nickel					
Potassium					
Selenium					
Silver					
Sodium					
Thallium					
Vanadium					
Zinc					
Cyanide	10.0			8.78 J	88

(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 CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39551 NRAS No.: _____ SDG No.: MF3FX7

Preparation Blank Matrix (soil/water): WATER

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

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		
		C	1	C	2	C	3	C		C	M
Aluminum	200.000	U	200.000	U	200.000	U	200.000	U	-9.206	J	P
Antimony	60.000	U	60.000	U	60.000	U	60.000	U	-2.201	J	P
Arsenic	10.000	U	10.000	U	10.000	U	10.000	U	10.000	U	P
Barium	200.000	U	200.000	U	200.000	U	200.000	U	200.000	U	P
Beryllium	5.000	U	5.000	U	5.000	U	5.000	U	5.000	U	P
Cadmium	5.000	U	5.000	U	0.672	J	0.870	J	5.000	U	P
Calcium	5000.000	U	5000.000	U	5000.000	U	5000.000	U	5000.000	U	P
Chromium	10.000	U	10.000	U	10.000	U	10.000	U	10.000	U	P
Cobalt	50.000	U	0.310	J	0.766	J	0.915	J	50.000	U	P
Copper	25.000	U	25.000	U	25.000	U	25.000	U	25.000	U	P
Iron	100.000	U	100.000	U	100.000	U	100.000	U	100.000	U	P
Lead	10.000	U	10.000	U	10.000	U	1.574	J	10.000	U	P
Magnesium	24.328	J	5000.000	U	40.467	J	30.082	J	5000.000	U	P
Manganese	15.000	U	15.000	U	0.544	J	1.093	J	15.000	U	P
Mercury	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	CV
Nickel	40.000	U	40.000	U	40.000	U	0.740	J	40.000	U	P
Potassium	88.247	J	5000.000	U	5000.000	U	5000.000	U	5000.000	U	P
Selenium	35.000	U	35.000	U	35.000	U	35.000	U	35.000	U	P
Silver	10.000	U	10.000	U	10.000	U	10.000	U	10.000	U	P
Sodium	-241.243	J	-184.660	J	5000.000	U	5000.000	U	5000.000	U	P
Thallium	25.000	U	3.005	J	4.870	J	5.825	J	25.000	U	P
Vanadium	50.000	U	0.373	J	0.810	J	1.095	J	50.000	U	P
Zinc	60.000	U	60.000	U	60.000	U	60.000	U	60.000	U	P
Cyanide	10.000	U	10.000	U	10.000	U	10.000	U	10.000	U	AS

USEPA - CLP

3-IN
BLANKS

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39551 NRAS No.: _____ SDG No.: MF3FX7

Preparation Blank Matrix (soil/water): WATER

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

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		
		C	1	C	2	C	3	C		C	M
Aluminum			200.000	U	200.000	U	17.391	J	-8.589	J	P
Antimony			60.000	U	60.000	U	60.000	U	-2.356	J	P
Arsenic			10.000	U	4.200	J	3.805	J	10.000	U	P
Barium			200.000	U	3.153	J	4.100	J	200.000	U	P
Beryllium			5.000	U	5.000	U	5.000	U	5.000	U	P
Cadmium			0.845	J	1.447	J	1.613	J	5.000	U	P
Calcium			36.676	J	58.110	J	62.794	J	5000.000	U	P
Chromium			10.000	U	0.824	J	10.000	U	10.000	U	P
Cobalt			0.897	J	1.673	J	1.855	J	50.000	U	P
Copper			25.000	U	25.000	U	25.000	U	25.000	U	P
Iron			100.000	U	10.237	J	100.000	U	100.000	U	P
Lead			10.000	U	2.479	J	3.075	J	10.000	U	P
Magnesium			28.815	J	35.419	J	49.543	J	5000.000	U	P
Manganese			0.914	J	1.209	J	1.920	J	15.000	U	P
Mercury			0.200	U							CV
Nickel			0.927	J	1.338	J	1.662	J	40.000	U	P
Potassium			5000.000	U	5000.000	U	5000.000	U	5000.000	U	P
Selenium			35.000	U	35.000	U	35.000	U	35.000	U	P
Silver			0.492	J	0.513	J	0.572	J	-0.542	J	P
Sodium			5000.000	U	5000.000	U	5000.000	U	5000.000	U	P
Thallium			5.797	J	6.910	J	8.475	J	25.000	U	P
Vanadium			1.243	J	1.910	J	2.113	J	50.000	U	P
Zinc			60.000	U	2.793	J	3.202	J	60.000	U	P
Cyanide			10.000	U					10.000	U	AS

USEPA - CLP

3-IN
BLANKS

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39551 NRAS No.: _____ SDG No.: MF3FX7

Preparation Blank Matrix (soil/water): WATER

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

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		
		C	1	C	2	C	3	C		C	M
Aluminum			17.988	J					-10.134	J	P
Antimony			60.000	U					60.000	U	P
Arsenic			4.818	J					10.000	U	P
Barium			4.930	J					200.000	U	P
Beryllium			5.000	U					5.000	U	P
Cadmium			1.979	J					5.000	U	P
Calcium			60.022	J					5000.000	U	P
Chromium			0.791	J					10.000	U	P
Cobalt			2.007	J					50.000	U	P
Copper			25.000	U					25.000	U	P
Iron			12.293	J					100.000	U	P
Lead			3.463	J					10.000	U	P
Magnesium			61.071	J					29.169	J	P
Manganese			1.872	J					15.000	U	P
Mercury											NR
Nickel			1.800	J					40.000	U	P
Potassium			78.182	J					5000.000	U	P
Selenium			35.000	U					35.000	U	P
Silver			0.970	J					10.000	U	P
Sodium			5000.000	U					5000.000	U	P
Thallium			7.940	J					25.000	U	P
Vanadium			2.134	J					50.000	U	P
Zinc			3.237	J					60.000	U	P
Cyanide	10.000	U	10.000	U	10.000	U	10.000	U			AS

USEPA - CLP

3-IN
BLANKS

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39551 NRAS No.: _____ SDG No.: MF3FX7

Preparation Blank Matrix (soil/water):_____

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

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		
		C	1	C	2	C	3	C		C	M
Aluminum											NR
Antimony											NR
Arsenic											NR
Barium											NR
Beryllium											NR
Cadmium											NR
Calcium											NR
Chromium											NR
Cobalt											NR
Copper											NR
Iron											NR
Lead											NR
Magnesium											NR
Manganese											NR
Mercury											NR
Nickel											NR
Potassium											NR
Selenium											NR
Silver											NR
Sodium											NR
Thallium											NR
Vanadium											NR
Zinc											NR
Cyanide			10.000	U							AS

USEPA - CLP

4A-IN
ICP-AES INTERFERENCE CHECK SAMPLE

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39551 NRAS No.: _____ SDG No.: MF3FX7

ICP-AES Instrument ID: P5 ICS Source: EPA1206-0203

Concentration Units: ug/L

Analyte	True		Initial Found				Final Found			
	Sol. A	Sol. AB	Sol. A	%R	Sol. AB	%R	Sol. A	%R	Sol. AB	%R
Aluminum	244000	241000	247000	101	242000	100	244000	100	241000	100
Antimony	0	589	0.45		577	98	1.2		602	102
Arsenic	0	101	5.6		97.2	96	4.2		101	100
Barium	2.0	495	2.2	110	502	101	0.59	30	492	99
Beryllium	0	475	1.3		485	102	1.3		465	98
Cadmium	0	940	3.5		990	105	3.6		937	100
Calcium	235000	231000	247000	105	241000	104	232000	99	230000	100
Chromium	43.0	511	43.6	101	516	101	42.7	99	508	99
Cobalt	4.0	461	5.6	140	483	105	5.7	143	473	103
Copper	23.0	548	21.7	94	504	92	19.5	85	509	93
Iron	95600	94800	95400	100	93400	99	91000	95	90200	95
Lead	10.0	61.0	9.4	94	60.6	99	10.4	104	57.2	94
Magnesium	248000	251000	255000	103	249000	99	241000	97	238000	95
Manganese	19.0	502	21.2	112	500	100	19.8	104	475	95
Nickel	21.0	984	20.9	100	1000	102	21.0	100	965	98
Potassium	0	0	-4.0		-71.9		-7.5		-112	
Selenium	0	53.0	7.0		55.7	105	8.7		55.5	105
Silver	0	206	-1.7		204	99	-1.3		194	94
Sodium	0	0	721		659		951		995	
Thallium	0	103	-1.8		95.2	92	0.36		90.8	88
Vanadium	0	494	2.6		466	94	1.9		454	92
Zinc	28.0	1030	37.1	133	1040	101	34.9	125	975	95

USEPA - CLP

4A-IN
ICP-AES INTERFERENCE CHECK SAMPLE

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39551 NRAS No.: _____ SDG No.: MF3FX7

ICP-AES Instrument ID: P5 ICS Source: EPA1206-0203

Concentration Units: ug/L

Analyte	True		Initial Found				Final Found			
	Sol. A	Sol. AB	Sol. A	%R	Sol. AB	%R	Sol. A	%R	Sol. AB	%R
Aluminum	244000	241000					239000	98	237000	98
Antimony	0	589					-0.43		599	102
Arsenic	0	101					2.6		102	101
Barium	2.0	495					0.51	26	470	95
Beryllium	0	475					1.3		463	97
Cadmium	0	940					4.0		940	100
Calcium	235000	231000					229000	97	226000	98
Chromium	43.0	511					43.6	101	519	102
Cobalt	4.0	461					5.7	143	474	103
Copper	23.0	548					20.2	88	503	92
Iron	95600	94800					90100	94	89300	94
Lead	10.0	61.0					11.7	117	57.9	95
Magnesium	248000	251000					239000	96	237000	94
Manganese	19.0	502					19.4	102	465	93
Nickel	21.0	984					20.7	99	957	97
Potassium	0	0					-91.9		-102	
Selenium	0	53.0					2.6		54.4	103
Silver	0	206					-1.4		188	91
Sodium	0	0					932		833	
Thallium	0	103					0.16		93.5	91
Vanadium	0	494					2.1		460	93
Zinc	28.0	1030					31.8	114	959	93

USEPA - CLP

4A-IN
ICP-AES INTERFERENCE CHECK SAMPLE

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39551 NRAS No.: _____ SDG No.: MF3FX7

ICP-AES Instrument ID: P5 ICS Source: EPA1206-0203

Concentration Units: ug/L

Analyte	True		Initial Found				Final Found			
	Sol. A	Sol. AB	Sol. A	%R	Sol. AB	%R	Sol. A	%R	Sol. AB	%R
Aluminum	244000	241000					231000	95	227000	94
Antimony	0	589					-0.64		560	95
Arsenic	0	101					5.8		98.6	98
Barium	2.0	495					0.31	16	442	89
Beryllium	0	475					1.2		457	96
Cadmium	0	940					3.7		952	101
Calcium	235000	231000					226000	96	224000	97
Chromium	43.0	511					43.8	102	526	103
Cobalt	4.0	461					5.3	133	466	101
Copper	23.0	548					19.8	86	478	87
Iron	95600	94800					88400	92	87300	92
Lead	10.0	61.0					8.2	82	53.0	87
Magnesium	248000	251000					237000	96	235000	94
Manganese	19.0	502					18.9	99	456	91
Nickel	21.0	984					21.0	100	943	96
Potassium	0	0					-31.6		-111	
Selenium	0	53.0					7.4		55.1	104
Silver	0	206					-0.76		188	91
Sodium	0	0					707		827	
Thallium	0	103					-0.61		91.1	88
Vanadium	0	494					2.3		475	96
Zinc	28.0	1030					31.3	112	910	88

USEPA - CLP

5A-IN
MATRIX SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

MF3FY3S

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39551 NRAS No.: _____ SDG No.: MF3FX7

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

% Solids for Sample: 0.0

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

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum	75-125	2136.1555		283.3228		2000.00	93		P
Antimony	75-125	95.9880		60.0000	U	100.00	96		P
Arsenic	75-125	43.3197		10.0000	U	40.00	108		P
Barium	75-125	2050.3295		138.9567	J	2000.00	96		P
Beryllium	75-125	46.9209		5.0000	U	50.00	94		P
Cadmium	75-125	47.4155		5.0000	U	50.00	95		P
Calcium									NR
Chromium	75-125	190.1009		3.1043	J	200.00	93		P
Cobalt	75-125	449.9489		50.0000	U	500.00	90		P
Copper	75-125	239.3954		8.8467	J	250.00	92		P
Iron	75-125	2494.7935		1842.2790		1000.00	65	N	P
Lead	75-125	23.6442		6.9008	J	20.00	84		P
Magnesium									NR
Manganese	75-125	547.0857		106.6527		500.00	88		P
Mercury	75-125	0.8970		0.2000	U	1.00	90		CV
Nickel	75-125	457.0613		2.7176	J	500.00	91		P
Potassium									NR
Selenium	75-125	50.8080		35.0000	U	50.00	102		P
Silver	75-125	41.0955		10.0000	U	50.00	82		P
Sodium									NR
Thallium	75-125	50.3100		25.0000	U	50.00	101		P
Vanadium	75-125	468.2203		1.5275	J	500.00	93		P
Zinc	75-125	472.2043		12.9931	J	500.00	92		P
Cyanide	75-125	95.9331		10.0000	U	100.00	96		AS

Comments:

USEPA - CLP

5B-IN
POST-DIGESTION SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

MF3FY3A

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39551 NRAS No.: _____ SDG No.: MF3FX7

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

Concentration Units: ug/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									NR
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron		5889.03		1842.28		3680.0	110		P
Lead									NR
Magnesium									NR
Manganese									NR
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide									NR

Comments:

USEPA - CLP

6-IN
DUPLICATES

EPA SAMPLE NO.

MF3FY3D

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39551 NRAS No.: SDG No.: MF3FX7

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

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

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

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum	200.0	283.3228		371.5096		27		P
Antimony		60.0000	U	60.0000	U			P
Arsenic		10.0000	U	10.0000	U			P
Barium		138.9567	J	135.3234	J	3		P
Beryllium		5.0000	U	5.0000	U			P
Cadmium		5.0000	U	5.0000	U			P
Calcium		100844.4500		107066.8000		6		P
Chromium		3.1043	J	3.6732	J	17		P
Cobalt		50.0000	U	50.0000	U			P
Copper		8.8467	J	25.0000	U	200		P
Iron		1842.2790		1750.1880		5		P
Lead		6.9008	J	5.9557	J	15		P
Magnesium	5000.0	5038.0275		5236.5895		4		P
Manganese		106.6527		93.6003		13		P
Mercury		0.2000	U	0.2000	U			CV
Nickel		2.7176	J	2.7364	J	1		P
Potassium		642.8431	J	1107.5505	J	53		P
Selenium		35.0000	U	35.0000	U			P
Silver		10.0000	U	10.0000	U			P
Sodium	5000.0	12435.7250		13367.0850		7		P
Thallium		25.0000	U	25.0000	U			P
Vanadium		1.5275	J	1.7371	J	13		P
Zinc		12.9931	J	18.0004	J	32		P
Cyanide		10.0000	U	10.0000	U			AS

USEPA - CLP

7-IN
LABORATORY CONTROL SAMPLE

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39551 NRAS No.: _____ SDG No.: MF3FX7

Solid LCS Source: _____

Aqueous LCS Source: EPA-ICV -0307

Analyte	Aqueous (ug/L)			Solid (mg/kg)					
	True	Found	%R	True	Found	C	Limits		%R
Aluminum	2482.0	2268.78	91						
Antimony	992.0	899.85	91						
Arsenic	996.0	905.14	91						
Barium	502.0	464.93	93						
Beryllium	493.0	452.98	92						
Cadmium	494.0	439.78	89						
Calcium	10180.0	9703.54	95						
Chromium	490.0	465.48	95						
Cobalt	496.0	433.66	87						
Copper	490.0	452.91	92						
Iron	5107.0	4639.78	91						
Lead	996.0	888.37	89						
Magnesium	6003.0	5515.49	92						
Manganese	495.0	458.01	93						
Mercury									
Nickel	492.0	444.30	90						
Potassium	10008.0	8474.52	85						
Selenium	1005.0	921.65	92						
Silver	495.0	460.07	93						
Sodium	10039.0	9341.61	93						
Thallium	1027.0	930.93	91						
Vanadium	501.0	476.87	95						
Zinc	1000.0	898.69	90						
Cyanide	99.0	97.00	98						

USEPA - CLP

7-IN
LABORATORY CONTROL SAMPLE

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39551 NRAS No.: _____ SDG No.: MF3FX7

Solid LCS Source: _____

Aqueous LCS Source: EPA-ICV -0307

Analyte	Aqueous (ug/L)			Solid (mg/kg)					
	True	Found	%R	True	Found	C	Limits		%R
Aluminum	2482.0	2372.45	96						
Antimony	992.0	985.26	99						
Arsenic	996.0	987.96	99						
Barium	502.0	484.83	97						
Beryllium	493.0	464.21	94						
Cadmium	494.0	456.14	92						
Calcium	10180.0	9931.04	98						
Chromium	490.0	485.94	99						
Cobalt	496.0	458.99	93						
Copper	490.0	485.72	99						
Iron	5107.0	4791.09	94						
Lead	996.0	924.78	93						
Magnesium	6003.0	5573.90	93						
Manganese	495.0	471.11	95						
Mercury									
Nickel	492.0	466.26	95						
Potassium	10008.0	8918.67	89						
Selenium	1005.0	1011.92	101						
Silver	495.0	475.56	96						
Sodium	10039.0	9918.42	99						
Thallium	1027.0	1002.59	98						
Vanadium	501.0	485.21	97						
Zinc	1000.0	935.51	94						
Cyanide	99.0	98.00	99						

USEPA - CLP

7-IN
LABORATORY CONTROL SAMPLE

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39551 NRAS No.: _____ SDG No.: MF3FX7

Solid LCS Source: _____

Aqueous LCS Source: EPA-ICV -0307

Analyte	Aqueous (ug/L)			Solid (mg/kg)					
	True	Found	%R	True	Found	C	Limits		%R
Aluminum	2482.0	2243.50	90						
Antimony	992.0	939.64	95						
Arsenic	996.0	942.33	95						
Barium	502.0	449.91	90						
Beryllium	493.0	437.01	89						
Cadmium	494.0	422.45	86						
Calcium	10180.0	9177.43	90						
Chromium	490.0	463.65	95						
Cobalt	496.0	429.38	87						
Copper	490.0	456.87	93						
Iron	5107.0	4470.14	88						
Lead	996.0	845.68	85						
Magnesium	6003.0	5250.09	87						
Manganese	495.0	431.78	87						
Mercury									
Nickel	492.0	431.62	88						
Potassium	10008.0	8169.07	82						
Selenium	1005.0	952.33	95						
Silver	495.0	437.31	88						
Sodium	10039.0	9463.43	94						
Thallium	1027.0	930.97	91						
Vanadium	501.0	461.66	92						
Zinc	1000.0	863.07	86						
Cyanide									

USEPA - CLP

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

EPA SAMPLE NO.

MF3FY3L

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39551 NRAS No.: _____ SDG No.: MF3FX7

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	283.32		245.14	J	13	E	P
Antimony	60.00	U	300.00	U			P
Arsenic	10.00	U	50.00	U			P
Barium	138.96	J	129.40	J	7		P
Beryllium	5.00	U	25.00	U			P
Cadmium	5.00	U	25.00	U			P
Calcium	100844.45		97436.35		3		P
Chromium	3.10	J	3.53	J	14		P
Cobalt	50.00	U	250.00	U			P
Copper	8.85	J	125.00	U	100		P
Iron	1842.28		1782.38		3		P
Lead	6.90	J	50.00	U	100		P
Magnesium	5038.03		4991.97	J	1		P
Manganese	106.65		105.43		1		P
Nickel	2.72	J	1.94	J	29		P
Potassium	642.84	J	669.80	J	4		P
Selenium	35.00	U	175.00	U			P
Silver	10.00	U	50.00	U			P
Sodium	12435.73		11881.18	J	4		P
Thallium	25.00	U	125.00	U			P
Vanadium	1.53	J	250.00	U	100		P
Zinc	12.99	J	300.00	U	100		P

USEPA - CLP

9-IN
METHOD DETECTION LIMITS (ANNUALLY)

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39551 NRAS No.: _____ SDG No.: MF3FX7

Instrument Type: AS Instrument ID: CN Date: 01/18/2010

Preparation Method: DW2

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

Analyte	Wavelength /Mass	CRQL	MDL
Aluminum		200	
Antimony		60	
Arsenic		10	
Barium		200	
Beryllium		5	
Cadmium		5	
Calcium		5000	
Chromium		10	
Cobalt		50	
Copper		25	
Iron		100	
Lead		10	
Magnesium		5000	
Manganese		15	
Mercury		0.2	
Nickel		40	
Potassium		5000	
Selenium		35	
Silver		10	
Sodium		5000	
Thallium		25	
Vanadium		50	
Zinc		60	
Cyanide	578.00	10	3.5

Comments:

USEPA - CLP

9-IN
METHOD DETECTION LIMITS (ANNUALLY)

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39551 NRAS No.: _____ SDG No.: MF3FX7

Instrument Type: AS Instrument ID: CN Date: 01/18/2010

Preparation Method: NP1

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

Analyte	Wavelength /Mass	CRQL	MDL
Aluminum		200	
Antimony		60	
Arsenic		10	
Barium		200	
Beryllium		5	
Cadmium		5	
Calcium		5000	
Chromium		10	
Cobalt		50	
Copper		25	
Iron		100	
Lead		10	
Magnesium		5000	
Manganese		15	
Mercury		0.2	
Nickel		40	
Potassium		5000	
Selenium		35	
Silver		10	
Sodium		5000	
Thallium		25	
Vanadium		50	
Zinc		60	
Cyanide	578.00	10	2.9

Comments:

USEPA - CLP

9-IN
METHOD DETECTION LIMITS (ANNUALLY)

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39551 NRAS No.: _____ SDG No.: MF3FX7

Instrument Type: CV Instrument ID: CV2 Date: 01/15/2010

Preparation Method: CW1

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

Analyte	Wavelength /Mass	CRQL	MDL
Aluminum		200	
Antimony		60	
Arsenic		10	
Barium		200	
Beryllium		5	
Cadmium		5	
Calcium		5000	
Chromium		10	
Cobalt		50	
Copper		25	
Iron		100	
Lead		10	
Magnesium		5000	
Manganese		15	
Mercury	253.70	0.2	0.090
Nickel		40	
Potassium		5000	
Selenium		35	
Silver		10	
Sodium		5000	
Thallium		25	
Vanadium		50	
Zinc		60	
Cyanide		10	

Comments:

USEPA - CLP

9-IN
METHOD DETECTION LIMITS (ANNUALLY)

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39551 NRAS No.: _____ SDG No.: MF3FX7

Instrument Type: P Instrument ID: P5 Date: 01/15/2010

Preparation Method: HW1

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

Analyte	Wavelength /Mass	CRQL	MDL
Aluminum	396.15	200	5.5
Antimony	206.83	60	1.9
Arsenic	189.04	10	3.2
Barium	493.41	200	2.4
Beryllium	234.86	5	0.34
Cadmium	214.44	5	0.13
Calcium	373.69	5000	13.7
Chromium	267.72	10	0.52
Cobalt	228.62	50	0.30
Copper	324.75	25	8.0
Iron	259.84	100	8.4
Lead	220.35	10	2.3
Magnesium	279.08	5000	28.5
Manganese	257.61	15	0.50
Mercury		0.2	
Nickel	231.60	40	0.36
Potassium	769.90	5000	106
Selenium	196.09	35	3.1
Silver	328.07	10	0.30
Sodium	818.33	5000	312
Thallium	190.86	25	1.7
Vanadium	292.40	50	0.58
Zinc	213.86	60	3.0
Cyanide		10	

Comments:

USEPA - CLP

9-IN
METHOD DETECTION LIMITS (ANNUALLY)

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39551 NRAS No.: _____ SDG No.: MF3FX7

Instrument Type: P Instrument ID: P5 Date: 01/15/2010

Preparation Method: NP1

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

Analyte	Wavelength /Mass	CRQL	MDL
Aluminum	396.15	200	15.4
Antimony	206.83	60	2.3
Arsenic	189.04	10	3.0
Barium	493.41	200	2.1
Beryllium	234.86	5	0.30
Cadmium	214.44	5	0.13
Calcium	373.69	5000	20.4
Chromium	267.72	10	0.60
Cobalt	228.62	50	0.23
Copper	324.75	25	3.7
Iron	259.84	100	8.0
Lead	220.35	10	1.4
Magnesium	279.08	5000	17.3
Manganese	257.61	15	0.50
Mercury		0.2	
Nickel	231.60	40	0.60
Potassium	769.90	5000	78.0
Selenium	196.09	35	5.6
Silver	328.07	10	0.40
Sodium	818.33	5000	159
Thallium	190.86	25	1.9
Vanadium	292.40	50	0.30
Zinc	213.86	60	2.2
Cyanide		10	

Comments:

USEPA - CLP

10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (QUARTERLY)

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39551 NRAS No.: _____ SDG No.: MF3FX7

ICP-AES Instrument ID: P5 Date: 01/15/2010

Analyte	Wave-length (nm)	Interelement Correction Factors for: Al	Ca	Fe	Mg	Ag
Aluminum	396.15	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0000000	0.0000000	-0.0000710	0.0000000	0.0000000
Barium	493.41	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.86	0.0000000	0.0000000	0.0000060	0.0000000	0.0000000
Cadmium	214.44	-0.0000050	0.0000000	0.0000310	0.0000000	0.0000000
Calcium	373.69	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000280	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	-0.0000920	0.0000000	0.0000000
Iron	259.84	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	-0.0000510	0.0000000	0.0000450	0.0000000	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	-0.0000150	0.0000000	0.0000000
Nickel	231.60	0.0000000	0.0000000	0.0000360	0.0000000	0.0000000
Potassium	769.90	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000000	-0.0002870	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000000	-0.0000750	0.0000000	0.0000000
Sodium	818.33	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.86	0.0000000	0.0000000	0.0000590	0.0000000	0.0000000

Comments:

USEPA - CLP

10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (QUARTERLY)

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39551 NRAS No.: _____ SDG No.: MF3FX7

ICP-AES Instrument ID: P5 Date: 01/15/2010

Analyte	Wave-length (nm)	Interelement Correction Factors for: As	B	Ba	Be	Cd
Aluminum	396.15	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.41	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	373.69	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	-0.0002160	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.84	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	769.90	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	818.33	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

USEPA - CLP

10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (QUARTERLY)

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39551 NRAS No.: _____ SDG No.: MF3FX7

ICP-AES Instrument ID: P5 Date: 01/15/2010

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Co	Cr	Cu	Mn	Mo
Aluminum	396.15	0.0000000	0.0000000	0.0000000	0.0000000	0.0339750
Antimony	206.83	0.0000000	0.0077300	0.0000000	0.0000000	-0.0022410
Arsenic	189.04	0.0000000	-0.0017520	0.0000000	0.0000000	0.0002510
Barium	493.41	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.86	0.0000000	0.0000000	0.0000000	0.0000000	-0.0001600
Cadmium	214.44	0.0000000	-0.0000970	0.0000000	0.0000000	0.0000000
Calcium	373.69	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000980	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	-0.0009340
Copper	324.75	-0.0007880	0.0000000	0.0000000	0.0000000	0.0002170
Iron	259.84	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0000000	0.0000000	0.0002220	0.0000000	-0.0012910
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	-0.0163700
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.60	-0.0002840	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	769.90	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	-0.0006340	0.0000000	0.0000000	0.0005310	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	818.33	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0024390	0.0003150	0.0000000	0.0007320	0.0000000
Vanadium	292.40	0.0000000	-0.0038300	0.0000000	-0.0003640	0.0000000
Zinc	213.86	0.0000000	0.0000000	0.0007390	0.0000000	0.0000000

Comments:

USEPA - CLP

10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (QUARTERLY)

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39551 NRAS No.: _____ SDG No.: MF3FX7

ICP-AES Instrument ID: P5 Date: 01/15/2010

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Ni	Pb	S	Sb	Se
Aluminum	396.15	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	-0.0005090	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.41	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	373.69	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0001550	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.84	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0001060	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	769.90	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	818.33	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.86	0.0039010	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

USEPA - CLP

10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (QUARTERLY)

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39551 NRAS No.: _____ SDG No.: MF3FX7

ICP-AES Instrument ID: P5 Date: 01/15/2010

Analyte	Wave-length (nm)	Interelement Correction Factors for: Si	Ti	Tl	V	Zn
Aluminum	396.15	0.0000000	0.0010160	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0000000	-0.0126400	0.0000000	-0.0012030	0.0000000
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.41	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	373.69	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0016940	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	-0.0004780	0.0000000	-0.0001520	0.0000000
Iron	259.84	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0000000	-0.0010940	0.0000000	0.0000000	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	769.90	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0000000	-0.0007900	0.0000000
Sodium	818.33	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	-0.0010790	0.0000000	-0.0234800	0.0000000
Vanadium	292.40	0.0000000	0.0004810	0.0000000	0.0000000	0.0000000
Zinc	213.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

USEPA - CLP

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

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39551 NRAS No.: _____ SDG No.: MF3FX7

ICP Instrument ID: P5 Date: 01/15/2010

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	M
Aluminum	10.00	9000000.0	P
Antimony	10.00	90000.0	P
Arsenic	10.00	80000.0	P
Barium	10.00	45000.0	P
Beryllium	10.00	10000.0	P
Cadmium	10.00	9000.0	P
Calcium	10.00	2250000.0	P
Chromium	10.00	90000.0	P
Cobalt	10.00	45000.0	P
Copper	10.00	100000.0	P
Iron	10.00	2250000.0	P
Lead	10.00	180000.0	P
Magnesium	10.00	3000000.0	P
Manganese	10.00	170000.0	P
Nickel	10.00	85000.0	P
Potassium	10.00	1400000.0	P
Selenium	10.00	18000.0	P
Silver	10.00	10000.0	P
Sodium	10.00	2000000.0	P
Thallium	10.00	18000.0	P
Vanadium	10.00	90000.0	P
Zinc	10.00	60000.0	P

Comments:

USEPA - CLP

12-IN
PREPARATION LOG

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39551 NRAS No.: _____ SDG No.: MF3FX7

Preparation Method: CW1

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
CCB	03/15/2010		100
CCV	03/15/2010		100
CRI	03/15/2010		100
ICB	03/15/2010		100
ICV	03/15/2010		100
MF3FX7	03/15/2010		100
MF3FX8	03/15/2010		100
MF3FX9	03/15/2010		100
MF3FY0	03/15/2010		100
MF3FY1	03/15/2010		100
MF3FY2	03/15/2010		100
MF3FY3	03/15/2010		100
MF3FY3D	03/15/2010		100
MF3FY3S	03/15/2010		100
MF3FY4	03/15/2010		100
MF3FY6	03/15/2010		100
MF3FY7	03/15/2010		100
MF3FY8	03/15/2010		100
MF3FZ0	03/15/2010		100
MF3FZ1	03/15/2010		100
MF3FZ2	03/15/2010		100
MF3FZ3	03/15/2010		100
MF3FZ5	03/15/2010		100
MF3FZ6	03/15/2010		100
MF3FZ8	03/15/2010		100
MF3G01	03/15/2010		100
PBW	03/15/2010		100
S0	03/15/2010		100
S0.2	03/15/2010		100
S2.5	03/15/2010		100
S5.0	03/15/2010		100
S7.5	03/15/2010		100
S10.0	03/15/2010		100

USEPA - CLP

12-IN
PREPARATION LOG

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39551 NRAS No.: _____ SDG No.: MF3FX7

Preparation Method: DW2

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
ICV	03/11/2010		50
LCSW	03/11/2010		50
MF3FX7	03/11/2010		50
MF3FX8	03/11/2010		50
MF3FX9	03/11/2010		50
MF3FY1	03/11/2010		50
MF3FY2	03/11/2010		50
MF3FY3	03/11/2010		50
MF3FY3D	03/11/2010		50
MF3FY3S	03/11/2010		50
MF3FY4	03/11/2010		50
MF3FY6	03/11/2010		50
MF3FY7	03/11/2010		50
MF3FZ0	03/11/2010		50
MF3FZ1	03/11/2010		50
MF3FZ2	03/11/2010		50
MF3FZ3	03/11/2010		50
MF3FZ5	03/11/2010		50
MF3FZ6	03/11/2010		50
MIDRANGE	03/11/2010		50
PBW	03/11/2010		50

USEPA - CLP

12-IN
PREPARATION LOG

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39551 NRAS No.: _____ SDG No.: MF3FX7

Preparation Method: DW2

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
ICV	03/12/2010		50
LCSW	03/12/2010		50
MF3FY0	03/12/2010		50
MF3FY8	03/12/2010		50
MF3FZ8	03/12/2010		50
MF3G01	03/12/2010		50
MIDRANGE	03/12/2010		50
PBW	03/12/2010		50

USEPA - CLP

12-IN
PREPARATION LOG

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39551 NRAS No.: _____ SDG No.: MF3FX7

Preparation Method: HW1

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
LCSW	03/10/2010		50
MF3FX7	03/10/2010		50
MF3FY1	03/10/2010		50
MF3FY2	03/10/2010		50
MF3FY3	03/10/2010		50
MF3FY3D	03/10/2010		50
MF3FY3S	03/10/2010		50
MF3FY4	03/10/2010		50
MF3FZ0	03/10/2010		50
MF3FZ1	03/10/2010		50
PBW	03/10/2010		50

USEPA - CLP

12-IN
PREPARATION LOG

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39551 NRAS No.: _____ SDG No.: MF3FX7

Preparation Method: HW1

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
LCSW	03/11/2010		50
MF3FX8	03/11/2010		50
MF3FX9	03/11/2010		50
MF3FY6	03/11/2010		50
MF3FY7	03/11/2010		50
MF3FZ2	03/11/2010		50
MF3FZ3	03/11/2010		50
MF3FZ5	03/11/2010		50
MF3FZ6	03/11/2010		50
PBW	03/11/2010		50

USEPA - CLP

12-IN
PREPARATION LOG

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39551 NRAS No.: _____ SDG No.: MF3FX7

Preparation Method: HW1

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
LCSW	03/15/2010		50
MF3FY0	03/15/2010		50
MF3FY8	03/15/2010		50
MF3FZ8	03/15/2010		50
MF3G01	03/15/2010		50
PBW	03/15/2010		50

USEPA - CLP

13-IN
ANALYSIS RUN LOG

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39551 NRAS No.: _____ SDG No.: MF3FX7

Instrument ID: CN Analysis Method: AS

Start Date: 03/11/2010 End Date: 03/11/2010

EPA Sample No.	D/F	Time	Analytes																									
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN		
S0	1.0	1610																								X		
S5.0	1.0	1610																								X		
S10.0	1.0	1610																								X		
S100.0	1.0	1610																								X		
S250.0	1.0	1610																								X		
S500.0	1.0	1610																								X		
ICV	1.0	1627																								X		
ICB	1.0	1627																								X		
CRI	1.0	1627																								X		
CCV	1.0	1627																								X		
CCB	1.0	1627																								X		
MIDRANGE	1.0	1627																								X		
PBW	1.0	1627																								X		
LCSW	1.0	1627																								X		
MF3FX7	1.0	1627																								X		
MF3FY1	1.0	1627																								X		
MF3FY2	1.0	1627																								X		
MF3FY3	1.0	1630																								X		
MF3FY3D	1.0	1635																								X		
MF3FY3S	1.0	1635																								X		
MF3FY4	1.0	1635																								X		
CCV	1.0	1635																								X		
CCB	1.0	1635																								X		
MF3FZ0	1.0	1635																								X		
MF3FZ1	1.0	1639																								X		
MF3FX8	1.0	1639																								X		
MF3FX9	1.0	1644																								X		
MF3FY6	1.0	1644																								X		
MF3FY7	1.0	1644																								X		
MF3FZ2	1.0	1644																								X		
MF3FZ3	1.0	1644																								X		
MF3FZ5	1.0	1644																								X		
CRI	1.0	1651																								X		

USEPA - CLP

13-IN
ANALYSIS RUN LOG

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39551 NRAS No.: _____ SDG No.: MF3FX7

Instrument ID: CN Analysis Method: AS

Start Date: 03/11/2010 End Date: 03/11/2010

EPA Sample No.	D/F	Time	Analytes																									
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN		
CCV	1.0	1656																								X		
CCB	1.0	1656																								X		
MF3FZ6	1.0	1656																								X		
CRI	1.0	1656																								X		
CCV	1.0	1656																								X		
CCB	1.0	1656																								X		

USEPA - CLP

13-IN
ANALYSIS RUN LOG

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39551 NRAS No.: _____ SDG No.: MF3FX7

Instrument ID: CN Analysis Method: AS

Start Date: 03/12/2010 End Date: 03/12/2010

EPA Sample No.	D/F	Time	Analytes																									
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN		
S0	1.0	1911																								X		
S5.0	1.0	1911																								X		
S10.0	1.0	1911																								X		
S100.0	1.0	1911																								X		
S250.0	1.0	1911																								X		
S500.0	1.0	1911																								X		
ICV	1.0	1929																								X		
ICV	1.0	1929																								X		
ICB	1.0	1929																								X		
CRI	1.0	1929																								X		
CCV	1.0	1929																								X		
CCB	1.0	1929																								X		
MIDRANGE	1.0	1929																								X		
MIDRANGE	1.0	1929																								X		
PBW	1.0	1929																								X		
ZZZZZZ	1.0	1929																										
LCSW	1.0	1929																								X		
ZZZZZZ	1.0	1932																										
MF3FY0	1.0	1935																								X		
MF3FY8	1.0	1935																								X		
MF3FZ8	1.0	1941																								X		
MF3G01	1.0	1941																								X		
CCV	1.0	1941																								X		
CCB	1.0	1946																								X		
ZZZZZZ	1.0	1947																										
ZZZZZZ	1.0	1947																										
ZZZZZZ	1.0	1947																										
ZZZZZZ	1.0	1947																										
ZZZZZZ	1.0	1947																										
ZZZZZZ	1.0	1949																										
ZZZZZZ	1.0	1956																										
ZZZZZZ	1.0	1956																										
ZZZZZZ	1.0	1956																										

USEPA - CLP

13-IN
ANALYSIS RUN LOG

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39551 NRAS No.: _____ SDG No.: MF3FX7

Instrument ID: CN Analysis Method: AS

Start Date: 03/12/2010 End Date: 03/12/2010

EPA Sample No.	D/F	Time	Analytes																								
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN		
CRI	1.0	1956																								X		
CCV	1.0	1956																								X		
CCB	1.0	1956																								X		
ZZZZZZ	1.0	1956																										
ZZZZZZ	1.0	1956																										
ZZZZZZ	1.0	1956																										
ZZZZZZ	1.0	1956																										
CRI	1.0	1956																								X		
CCV	1.0	2000																								X		
CCB	1.0	2000																								X		

USEPA - CLP

13-IN
ANALYSIS RUN LOG

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39551 NRAS No.: _____ SDG No.: MF3FX7

Instrument ID: P5 Analysis Method: P

Start Date: 03/15/2010 End Date: 03/15/2010

EPA Sample No.	D/F	Time	Analytes																								
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN		
S0	1.0	1101	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
S	1.0	1104	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ICV	1.0	1106	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ICB	1.0	1108	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CRI	1.0	1111		X	X		X	X		X	X	X		X		X		X		X	X		X	X	X			
ICSA	1.0	1113	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ICSAB	1.0	1115	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CCV	1.0	1118	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CCB	1.0	1120	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
PBW	1.0	1122	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
LCSW	1.0	1125	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
MF3FX7	1.0	1127	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
MF3FY1	1.0	1129	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
MF3FY2	1.0	1132	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
MF3FY3	1.0	1134	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
MF3FY3L	5.0	1136	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
MF3FY3D	1.0	1139	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
MF3FY3S	1.0	1141	X	X	X	X	X	X		X	X	X	X	X		X		X		X	X		X	X	X			
MF3FY4	1.0	1143	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CCV	1.0	1146	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CCB	1.0	1148	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
MF3FZ0	1.0	1150	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
MF3FZ1	1.0	1153	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
PBW	1.0	1155	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
LCSW	1.0	1157	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
MF3FX8	1.0	1200	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
MF3FX9	1.0	1202	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
MF3FY6	1.0	1204	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CRI	1.0	1207		X	X		X	X		X	X	X		X		X		X		X	X		X	X	X			
ICSA	1.0	1209	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ICSAB	1.0	1211	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CCV	1.0	1214	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CCB	1.0	1216	X	X	X	X	X	X	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 CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39551 NRAS No.: _____ SDG No.: MF3FX7

Instrument ID: P5 Analysis Method: P

Start Date: 03/15/2010 End Date: 03/15/2010

EPA Sample No.	D/F	Time	Analytes																								
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN		
MF3FY7	1.0	1218	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
MF3FZ2	1.0	1221	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
MF3FZ3	1.0	1223	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
MF3FZ5	1.0	1225	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
MF3FZ6	1.0	1228	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
PBW	1.0	1230	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
LCSW	1.0	1232	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
MF3FY0	1.0	1235	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
MF3FY8	1.0	1237	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
MF3FZ8	1.0	1239	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CCV	1.0	1242	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CCB	1.0	1244	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
MF3G01	1.0	1246	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ZZZZZZ	1.0	1249																										
ZZZZZZ	1.0	1251																										
ZZZZZZ	1.0	1253																										
ZZZZZZ	1.0	1256																										
ZZZZZZ	1.0	1258																										
ZZZZZZ	1.0	1301																										
CRI	1.0	1303		X	X		X	X		X	X	X		X		X		X		X	X		X	X	X			
ICSA	1.0	1305	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ICSAB	1.0	1308	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CCV	1.0	1310	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CCB	1.0	1312	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ZZZZZZ	1.0	1314																										
ZZZZZZ	1.0	1317																										
ZZZZZZ	1.0	1319																										
ZZZZZZ	1.0	1322																										
ZZZZZZ	1.0	1324																										
ZZZZZZ	1.0	1326																										
ZZZZZZ	1.0	1329																										
ZZZZZZ	1.0	1331																										
ZZZZZZ	1.0	1333																										

USEPA - CLP

13-IN
ANALYSIS RUN LOG

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39551 NRAS No.: _____ SDG No.: MF3FX7

Instrument ID: P5 Analysis Method: P

Start Date: 03/15/2010 End Date: 03/15/2010

EPA Sample No.	D/F	Time	Analytes																									
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN		
ZZZZZZ	1.0	1336																										
CCV	1.0	1338	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CCB	1.0	1340	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ZZZZZZ	5.0	1342																										
ZZZZZZ	5.0	1345																										
MF3FY3A	1.0	1347											X															
ZZZZZZ	0	1350																										
CRI	1.0	1352		X	X		X	X		X	X	X		X		X		X		X	X		X	X	X			
ICSA	1.0	1354	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ICSAB	1.0	1357	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CCV	1.0	1359	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CCB	1.0	1401	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			

USEPA - CLP

13-IN
ANALYSIS RUN LOG

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39551 NRAS No.: _____ SDG No.: MF3FX7

Instrument ID: CV2 Analysis Method: CV

Start Date: 03/15/2010 End Date: 03/15/2010

EPA Sample No.	D/F	Time	Analytes																									
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN		
S0	1.0	1326															X											
S0.2	1.0	1328															X											
S2.5	1.0	1330															X											
S5.0	1.0	1332															X											
S7.5	1.0	1334															X											
S10.0	1.0	1336															X											
ICV	1.0	1353															X											
ICB	1.0	1356															X											
CRI	1.0	1358															X											
CCV	1.0	1400															X											
CCB	1.0	1403															X											
PBW	1.0	1405															X											
MF3FX7	1.0	1408															X											
MF3FY1	1.0	1410															X											
MF3FY2	1.0	1412															X											
MF3FY3	1.0	1414															X											
MF3FY3D	1.0	1417															X											
MF3FY3S	1.0	1419															X											
MF3FY4	1.0	1421															X											
MF3FZ0	1.0	1423															X											
MF3FZ1	1.0	1425															X											
CCV	1.0	1427															X											
CCB	1.0	1429															X											
MF3FX8	1.0	1431															X											
MF3FX9	1.0	1433															X											
MF3FY6	1.0	1435															X											
MF3FY7	1.0	1437															X											
MF3FZ2	1.0	1440															X											
MF3FZ3	1.0	1443															X											
MF3FZ5	1.0	1444															X											
ZZZZZZ	1.0	1446																										
ZZZZZZ	1.0	1449																										
CRI	1.0	1451															X											

USEPA - CLP

13-IN
ANALYSIS RUN LOG

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39551 NRAS No.: _____ SDG No.: MF3FX7

Instrument ID: CV2 Analysis Method: CV

Start Date: 03/15/2010 End Date: 03/15/2010

EPA Sample No.	D/F	Time	Analytes																									
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN		
CCV	1.0	1453															X											
CCB	1.0	1455															X											
MF3FZ6	1.0	1457															X											
MF3FY0	1.0	1459															X											
MF3FY8	1.0	1501															X											
MF3FZ8	1.0	1503															X											
MF3G01	1.0	1505															X											
CRI	1.0	1507															X											
CCV	1.0	1509															X											
CCB	1.0	1511															X											

Sample Name: S0 Acquired: 3/15/2010 11:01:43 Type: Cal
Method: ILM05.4_(v384) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: S0 Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	-.00018	-.00035	-.00013	.00048	.00033	.00061	.02851	.00001
Stddev	.00010	.00003	.00031	.00003	.00010	.00030	.00111	.00010
%RSD	53.109	9.6894	241.32	6.9803	30.633	48.188	3.8972	1441.1
#1	-.00025	-.00037	.00009	.00046	.00026	.00041	.02929	.00008
#2	-.00011	-.00033	-.00035	.00051	.00041	.00082	.02772	-.00006

Elem	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00007	.00144	.00006	-.00017	.00177	.00028	.00006	-.00023
Stddev	.00012	.00025	.00004	.00011	.00025	.00006	.00003	.00002
%RSD	174.95	17.036	66.001	65.644	14.322	20.766	55.034	10.112
#1	-.00002	.00161	.00003	-.00025	.00159	.00024	.00009	-.00025
#2	.00015	.00127	.00008	-.00009	.00195	.00032	.00004	-.00022

Elem	Ni2316	Ag3280	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	-.00029	-.00002	-.00503	.00015	.00203	.00819	-.00202	.00029
Stddev	.00017	.00003	.00026	.00002	.00090	.00024	.00011	.00018
%RSD	60.165	150.70	5.0778	15.830	44.241	2.9730	5.5284	61.081
#1	-.00041	.00000	-.00485	.00013	.00140	.00802	-.00194	.00017
#2	-.00016	-.00004	-.00521	.00016	.00267	.00836	-.00210	.00042

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00013	.00040	.00134	.00121	.00142	.00622
Stddev	.00004	.00006	.00007	.00005	.00015	.00031
%RSD	33.907	16.079	5.1802	3.8953	10.609	4.9641
#1	.00010	.00044	.00139	.00125	.00131	.00644
#2	.00016	.00035	.00129	.00118	.00153	.00601

Sample Name: S0 Acquired: 3/15/2010 11:01:43 Type: Cal
Method: ILM05.4_(v384) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: S0 Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	288.25	3851.4	89041.	14898.	5101.8
Stddev	2.78	14.8	659.	57.	24.2
%RSD	.96389	.38370	.74004	.38543	.47410
#1	286.28	3840.9	88575.	14857.	5084.7
#2	290.21	3861.8	89507.	14938.	5118.9

Sample Name: S Acquired: 3/15/2010 11:04:08 Type: Cal
Method: ILM05.4_(v384) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: S Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348	Cd2144
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.54612	.93300	1.4900	.64810	1.3728	1.1932	52.744	.31894	10.490
Stddev	.00136	.00038	.0020	.00111	.0032	.0040	.289	.00134	.004
%RSD	.24884	.04032	.13354	.17141	.23289	.33238	.54712	.41941	.03936
#1	.54515	.93326	1.4914	.64732	1.3705	1.1960	52.948	.31989	10.492
#2	.54708	.93273	1.4886	.64889	1.3750	1.1904	52.540	.31800	10.487

Elem	Ca3736	Cr2677	Co2286	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2.1443	.22194	4.0526	.39443	.33200	2.3929	.57289	3.0106	.43839
Stddev	.0036	.00098	.0013	.00143	.00083	.0017	.00099	.0007	.00071
%RSD	.16853	.44180	.03131	.36180	.24949	.07003	.17266	.02370	.16234
#1	2.1469	.22125	4.0517	.39544	.33259	2.3941	.57359	3.0111	.43788
#2	2.1418	.22263	4.0535	.39342	.33142	2.3917	.57220	3.0101	.43889

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.24093	4.8190	16.523	.72898	.60318	.48689	5.1001	.31737	.27153
Stddev	.00012	.0016	.070	.00045	.00093	.00198	.0098	.00089	.00047
%RSD	.04901	.03377	.42062	.06169	.15432	.40742	.19213	.27922	.17420
#1	.24084	4.8201	16.572	.72930	.60252	.48829	5.0931	.31800	.27186
#2	.24101	4.8178	16.474	.72867	.60384	.48549	5.1070	.31674	.27119

Elem	Sn1899	Ti3361	Li6707
Units	Cts/S	Cts/S	Cts/S
Avg	1.3545	3.7156	8.1248
Stddev	.0012	.0136	.0247
%RSD	.08681	.36536	.30435
#1	1.3553	3.7252	8.1423
#2	1.3536	3.7060	8.1073

Sample Name: S Acquired: 3/15/2010 11:04:08 Type: Cal
Method: ILM05.4_(v384) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: S Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	294.80	3751.7	86893.	15249.	4458.1
Stddev	.09	10.3	40.	30.	1.0
%RSD	.02994	.27413	.04641	.19509	.02305
#1	294.74	3758.9	86864.	15228.	4458.8
#2	294.86	3744.4	86921.	15270.	4457.4

Sample Name: ICV Acquired: 3/15/2010 11:06:23 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: ICV Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9528840	.9963207	.9596528	.9445112	.9381107	2.450753
Stddev	.0015726	.0056537	.0055463	.0071498	.0033430	.004469
%RSD	.1650315	.5674564	.5779520	.7569860	.3563570	.1823659
#1	.9517720	.9923229	.9557310	.9394555	.9357468	2.447592
#2	.9539960	1.000318	.9635747	.9495669	.9404745	2.453913

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5159985	.4732931	.4726634	9.838961	.4980577	.4774392
Stddev	.0000574	.0009528	.0014690	.003350	.0043235	.0006940
%RSD	.0111202	.2013105	.3107973	.0340436	.8680646	.1453495
#1	.5159579	.4726194	.4716247	9.836592	.4950005	.4769485
#2	.5160391	.4739668	.4737022	9.841329	.5011148	.4779299

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4892582	4.975290	.4950222	5.806198	.4805040	.4827386
Stddev	.0002354	.020707	.0005180	.015327	.0017391	.0044131
%RSD	.0481033	.4161968	.1046450	.2639794	.3619367	.9141779
#1	.4894246	4.960648	.4946559	5.795360	.4792742	.4796181
#2	.4890918	4.989932	.4953885	5.817036	.4817337	.4858591

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.684744	.5129588	.9785292	9.661659	-.018483	F2.407435
Stddev	.019031	.0036104	.0053125	.052660	.000908	.004449
%RSD	.1965094	.7038340	.5429039	.5450399	4.913161	.1848217
#1	9.671286	.5104059	.9822857	9.624422	-.017841	2.404289
#2	9.698201	.5155117	.9747727	9.698895	-.019125	2.410581

Sample Name: ICV Acquired: 3/15/2010 11:06:23 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: ICV Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.494245	-.001040	2.399599	2.316791	2.425196	W.0036674
Stddev	.003197	.001679	.016979	.001706	.007310	.0008279
%RSD	.1281726	161.3834	.7075903	.0736509	.3014068	22.57492
#1	2.491984	.000147	2.387593	2.315585	2.420027	.0042528
#2	2.496505	-.002228	2.411606	2.317998	2.430364	.0030819

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	291.3916	3895.161	89594.31	15150.81	4952.644
Stddev	2.8403	7.465	438.05	11.84	.675
%RSD	.9747337	.1916554	.4889317	.0781378	.0136324
#1	289.3832	3889.882	89904.06	15142.44	4952.166
#2	293.4000	3900.440	89284.55	15159.18	4953.121

Sample Name: ICB Acquired: 3/15/2010 11:08:37 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: ICB Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0019477	.0013134	.0005399	-.002741	-.000822	-.008430	-.000664
Stddev	.0015847	.0003729	.0002604	.000028	.001272	.004988	.000234
%RSD	81.36286	28.39687	48.23061	1.033681	154.7778	59.16957	35.26397
#1	.0030682	.0010496	.0007241	-.002761	-.001721	-.004903	-.000498
#2	.0008271	.0015771	.0003558	-.002721	.000078	-.011957	-.000829

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000636	-.000008	-.002019	-.000030	.0000850	-.001206	-.001336
Stddev	.0000257	.000078	.001361	.000042	.0001217	.001779	.003880
%RSD	40.30846	996.6622	67.41369	142.0374	143.2498	147.5700	290.3649
#1	.0000818	.000048	-.001057	.000000	.0001711	-.002464	-.004080
#2	.0000455	-.000063	-.002982	-.000060	-.000001	.000052	.001407

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000052	.0243274	-.000125	.0000051	-.241243	.0001456	.0020416
Stddev	.000302	.0042055	.000008	.0003260	.011932	.0000970	.0006478
%RSD	584.5564	17.28708	6.590769	6369.068	4.946006	66.60139	31.73100
#1	-.000265	.0213537	-.000119	.0002356	-.232806	.0002141	.0024996
#2	.000162	.0273012	-.000131	-.000225	-.249680	.0000770	.0015835

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0882468	.0017266	.0099667	.0013472	-.004150	-.001591	-.000812
Stddev	.0585855	.0008140	.0024083	.0003169	.000823	.000122	.000122
%RSD	66.38826	47.14534	24.16351	23.52259	19.83328	7.669685	14.96706
#1	.1296730	.0023022	.0116696	.0015713	-.003568	-.001678	-.000726
#2	.0468206	.0011510	.0082637	.0011232	-.004732	-.001505	-.000898

Sample Name: ICB Acquired: 3/15/2010 11:08:37 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: ICB Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	Ti3361	Li6707
Units	ppm	ppm
Avg	.0000126	.0005322
Stddev	.0000456	.0007137
%RSD	363.6163	134.0866
#1	.0000448	.0010369
#2	-.000020	.0000276

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	293.6169	4016.745	92881.39	15247.93	5263.090
Stddev	.9343	7.277	300.79	64.03	12.297
%RSD	.3182084	.1811622	.3238464	.4199172	.2336524
#1	294.2776	4011.599	92668.70	15202.66	5254.394
#2	292.9563	4021.890	93094.08	15293.21	5271.785

Sample Name: CRI Acquired: 3/15/2010 11:11:00 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: CRI Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0108294	.0270212	.0087502	.0310298	.0594964	-.008584
Stddev	.0015813	.0009771	.0010626	.0006978	.0009670	.005758
%RSD	14.60175	3.615931	12.14323	2.248813	1.625288	67.07571
#1	.0119475	.0277121	.0095015	.0305364	.0601802	-.012656
#2	.0097112	.0263303	.0079988	.0315233	.0588127	-.004513

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001528	.0051013	.0048874	.0116442	.0107575	.0497467
Stddev	.000037	.0002701	.0000022	.0068172	.0005721	.0002924
%RSD	2.451486	5.294138	.0454093	58.54546	5.317804	.5878425
#1	-.001502	.0049104	.0048858	.0164647	.0111621	.0495399
#2	-.001555	.0052923	.0048890	.0068238	.0103530	.0499535

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0253515	.1064070	.0161633	.0185636	.0407664	.0102696
Stddev	.0010208	.0012240	.0005683	.0011037	.0002629	.0002514
%RSD	4.026724	1.150335	3.516171	5.945528	.6449948	2.447624
#1	.0260733	.1072725	.0157615	.0193440	.0409523	.0100919
#2	.0246296	.1055414	.0165652	.0177831	.0405805	.0104474

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.124558	.0558958	.0637718	.0589658	-.000359	F.0022753
Stddev	.015481	.0005168	.0006592	.0120772	.001566	.0030286
%RSD	12.42875	.9245959	1.033748	20.48168	435.9314	133.1083
#1	-.135505	.0555303	.0633057	.0504260	-.001466	.0044168
#2	-.113611	.0562612	.0642380	.0675057	.000748	.0001338

Sample Name: CRI Acquired: 3/15/2010 11:11:00 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: CRI Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001497	-.004635	-.006313	-.000243	-.000502	F-.000000
Stddev	.0000823	.000961	.001865	.000987	.000076	.000507
%RSD	54.97561	20.72654	29.54562	405.4931	15.15691	136407.0
#1	.0000915	-.005314	-.004994	.000455	-.000556	-.000359
#2	.0002079	-.003955	-.007632	-.000941	-.000448	.000358

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	296.5697	4027.873	93640.61	15358.98	5256.299
Stddev	.1231	3.662	173.81	85.00	1.667
%RSD	.0414923	.0909238	.1856180	.5533961	.0317195
#1	296.6567	4025.283	93763.52	15419.08	5257.478
#2	296.4827	4030.463	93517.71	15298.88	5255.120

Sample Name: ICSA Acquired: 3/15/2010 11:13:23 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: ICSA Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0055545	-.001842	.0094221	.0070131	.0004471	246.7694	.0022039
Stddev	.0018298	.000162	.0016894	.0021994	.0027002	.0541	.0001653
%RSD	32.94318	8.800479	17.92990	31.36189	603.9456	.0219305	7.499493
#1	.0042607	-.001728	.0082275	.0054579	-.001462	246.8077	.0023208
#2	.0068484	-.001957	.0106166	.0085684	.002356	246.7311	.0020871

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0012766	.0035063	247.3751	.0435622	.0055818	.0217223	95.40739
Stddev	.0003086	.0000753	.1124	.0000994	.0000482	.0003702	.12568
%RSD	24.17489	2.147396	.0454242	.2281245	.8641644	1.704407	.1317299
#1	.0014949	.0034531	247.4546	.0434919	.0055477	.0214605	95.49626
#2	.0010584	.0035596	247.2957	.0436324	.0056159	.0219841	95.31852

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0212212	254.8647	.0209318	-.001658	.7210427	.0025912	.0370659
Stddev	.0001610	.2396	.0000043	.000015	.0712925	.0000218	.0003320
%RSD	.7587701	.0940138	.0204746	.8753579	9.887414	.8430093	.8955794
#1	.0213350	255.0342	.0209288	-.001668	.6706313	.0026067	.0368311
#2	.0211073	254.6953	.0209349	-.001647	.7714541	.0025758	.0373006

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.004023	.0565389	-.037363	.0000142	.0520168	-.016036	-.002279
Stddev	.029678	.0000472	.000339	.0002999	.0043810	.002931	.000763
%RSD	737.8068	.0834308	.9063624	2109.016	8.422246	18.27609	33.47381
#1	.016963	.0565055	-.037124	-.000198	.0551146	-.018108	-.002818
#2	-.025008	.0565722	-.037603	.000226	.0489190	-.013963	-.001739

Sample Name: ICSA Acquired: 3/15/2010 11:13:23 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: ICSA Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	Ti3361	Li6707
Units	ppm	ppm
Avg	-.006584	.0063890
Stddev	.000630	.0013264
%RSD	9.567860	20.76027
#1	-.006139	.0054511
#2	-.007030	.0073269

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	275.7078	3624.677	83527.65	14653.71	4125.633
Stddev	.0285	8.137	872.79	96.71	8.939
%RSD	.0103357	.2244772	1.044912	.6599817	.2166637
#1	275.6877	3618.923	84144.80	14585.33	4119.312
#2	275.7280	3630.430	82910.49	14722.10	4131.954

Sample Name: ICSAB Acquired: 3/15/2010 11:15:44 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: ICSAB Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0972425	.0951535	.0605538	.0556535	.5766943	242.0005	.5023722
Stddev	.0033478	.0013758	.0012488	.0020393	.0037175	.4489	.0046811
%RSD	3.442765	1.445883	2.062357	3.664240	.6446146	.1854779	.9317919
#1	.0996098	.0961263	.0596707	.0542115	.5740656	241.6831	.4990622
#2	.0948753	.0941806	.0614368	.0570955	.5793229	242.3178	.5056822

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4845959	.9896304	241.3655	.5160105	.4826734	.5043356	93.41117
Stddev	.0008664	.0002446	2.0269	.0024178	.0004684	.0001528	.55932
%RSD	.1787854	.0247141	.8397602	.4685527	.0970517	.0303016	.5987750
#1	.4839833	.9894575	239.9323	.5143009	.4823422	.5044437	93.01567
#2	.4852085	.9898034	242.7987	.5177202	.4830046	.5042276	93.80667

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4999132	249.1162	1.000195	.2039839	.6592061	.4661590	1.042765
Stddev	.0036718	1.2670	.001431	.0011186	.0458318	.0029442	.010599
%RSD	.7344967	.5085808	.1430665	.5484017	6.952575	.6315895	1.016386
#1	.4973168	248.2203	.999183	.2047749	.6916141	.4640771	1.035271
#2	.5025096	250.0121	1.001207	.2031929	.6267981	.4682408	1.050259

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.071924	.0368671	-.039961	-.000412	.0486010	-.010030	-.002710
Stddev	.042267	.0005839	.004948	.000079	.0054892	.002614	.000162
%RSD	58.76627	1.583935	12.38153	19.30239	11.29446	26.06399	5.987449
#1	-.042037	.0364542	-.036463	-.000468	.0447195	-.011878	-.002825
#2	-.101812	.0372801	-.043460	-.000356	.0524824	-.008181	-.002596

Sample Name: ICSAB Acquired: 3/15/2010 11:15:44 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: ICSAB Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	Ti3361	Li6707
Units	ppm	ppm
Avg	-.005900	.0043647
Stddev	.000048	.0004972
%RSD	.8168941	11.39250
#1	-.005934	.0040131
#2	-.005866	.0047163

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	279.2268	3639.384	83740.21	14906.59	4144.703
Stddev	1.5669	.629	299.09	66.62	.805
%RSD	.5611655	.0172771	.3571672	.4469330	.0194159
#1	280.3347	3638.939	83528.72	14953.70	4145.273
#2	278.1188	3639.828	83951.70	14859.48	4144.135

Sample Name: CCV Acquired: 3/15/2010 11:18:01 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: CCV Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.797059	4.927062	4.942880	4.838801	4.812686	9.693822	9.880800
Stddev	.026550	.035168	.025053	.042061	.032035	.042093	.043609
%RSD	.5534556	.7137771	.5068480	.8692384	.6656290	.4342260	.4413540
#1	4.815832	4.951930	4.960595	4.868542	4.835338	9.664058	9.911636
#2	4.778285	4.902195	4.925165	4.809060	4.790034	9.723586	9.849963

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2394573	2.467843	24.45722	.9957421	2.440391	1.216236	4.899273
Stddev	.0008777	.011882	.12913	.0001366	.013362	.002415	.006142
%RSD	.3665242	.4814896	.5279821	.0137171	.5475299	.1985351	.1253697
#1	.2388367	2.476245	24.36591	.9958387	2.449840	1.217943	4.894930
#2	.2400780	2.459440	24.54853	.9956455	2.430943	1.214528	4.903616

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.467578	24.10324	2.460643	1.209476	24.30391	2.489955	2.459141
Stddev	.003311	.06225	.013747	.007024	.21271	.002659	.042132
%RSD	.1341988	.2582502	.5586905	.5807369	.8751904	.1067906	1.713273
#1	2.465236	24.05923	2.470364	1.214443	24.15350	2.491835	2.488932
#2	2.469920	24.14726	2.450923	1.204510	24.45431	2.488075	2.429349

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.72767	4.871137	4.843193	5.028373	4.671809	4.918263	4.922732
Stddev	.01953	.027266	.015297	.031244	.048459	.026111	.034904
%RSD	.0789921	.5597501	.3158427	.6213576	1.037264	.5309017	.7090433
#1	24.74148	4.890417	4.832377	5.050466	4.706075	4.899799	4.947413
#2	24.71386	4.851857	4.854010	5.006280	4.637544	4.936726	4.898051

Sample Name: CCV Acquired: 3/15/2010 11:18:01 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: CCV Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	Ti3361	Li6707
Units	ppm	ppm
Avg	4.914776	4.904618
Stddev	.005452	.005619
%RSD	.1109266	.1145575
#1	4.910921	4.900645
#2	4.918631	4.908591

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	294.3560	3863.762	89228.82	15363.00	4670.675
Stddev	6.7191	22.465	271.28	35.80	25.168
%RSD	2.282632	.5814217	.3040248	.2330392	.5388416
#1	289.6050	3847.877	89037.00	15337.69	4652.879
#2	299.1071	3879.647	89420.64	15388.32	4688.471

Sample Name: CCB Acquired: 3/15/2010 11:20:14 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: CCB Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0024138	.0030045	-.000114	-.001767	-.001186	-.008684	-.000958
Stddev	.0008653	.0004376	.000200	.001276	.000302	.001456	.000247
%RSD	35.84826	14.56599	175.9698	72.19066	25.43944	16.77198	25.82091
#1	.0018020	.0033140	-.000255	-.000865	-.000972	-.007654	-.001133
#2	.0030257	.0026951	.000028	-.002669	-.001399	-.009714	-.000783

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000071	.0000411	.0018282	.0000435	.0003100	-.001232	.0023628
Stddev	.000122	.0000031	.0103152	.0002046	.0000316	.000725	.0032129
%RSD	170.8636	7.560695	564.2207	469.7771	10.18318	58.83483	135.9803
#1	-.000157	.0000433	.0091222	-.000101	.0002877	-.001745	.0046347
#2	.000015	.0000389	-.005466	.000188	.0003323	-.000720	.0000909

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000102	.0125492	.0001033	-.000268	-.184660	.0003731	.0004609
Stddev	.000257	.0098326	.0002286	.000146	.089268	.0001613	.0003264
%RSD	250.6980	78.35251	221.3062	54.34006	48.34165	43.24189	70.82272
#1	-.000284	.0055965	-.000058	-.000165	-.121538	.0004872	.0006916
#2	.000079	.0195019	.000265	-.000371	-.247782	.0002590	.0002301

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0761563	-.000036	.0083301	.0018213	-.005738	.0001273	.0002107
Stddev	.0207286	.000549	.0036285	.0006867	.002507	.0029537	.0002835
%RSD	27.21850	1539.604	43.55853	37.70677	43.68586	2320.806	134.5410
#1	.0614989	-.000424	.0108958	.0023069	-.007511	.0022158	.0004112
#2	.0908136	.000353	.0057644	.0013357	-.003966	-.001961	.0000103

Sample Name: CCB Acquired: 3/15/2010 11:20:14 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: CCB Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	Ti3361	Li6707
Units	ppm	ppm
Avg	-.000342	.0005401
Stddev	.000106	.0001721
%RSD	30.93712	31.85756
#1	-.000267	.0006618
#2	-.000416	.0004185

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	294.8778	4042.465	93210.01	15374.37	5286.139
Stddev	.2165	4.846	1386.08	46.28	9.878
%RSD	.0734090	.1198679	1.487046	.3010393	.1868665
#1	295.0309	4039.039	94190.12	15407.09	5279.154
#2	294.7248	4045.892	92229.91	15341.64	5293.124

Sample Name: PB48189BL Acquired: 3/15/2010 11:22:38 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: PBW Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0017404	.0003353	-.000582	-.002251	-.002201	-.009205	-.000902
Stddev	.0005480	.0002636	.001307	.002227	.000110	.002337	.000424
%RSD	31.48494	78.62945	224.5557	98.92932	4.996547	25.38839	47.00503
#1	.0021279	.0001489	.000342	-.003826	-.002123	-.007553	-.000602
#2	.0013529	.0005217	-.001506	-.000676	-.002278	-.010858	-.001201

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000031	-.000039	.0021799	-.000129	-.000033	-.002000	-.001640
Stddev	.000115	.000051	.0027397	.000145	.000018	.000169	.002119
%RSD	367.0284	128.3099	125.6770	111.9066	55.34710	8.461103	129.1661
#1	-.000113	-.000004	.0002427	-.000027	-.000020	-.002120	-.000142
#2	.000050	-.000075	.0041172	-.000232	-.000046	-.001880	-.003138

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000050	.0108347	-.000097	.0000081	-.157892	.0001405	.0007097
Stddev	.000260	.0045757	.000378	.0001615	.134290	.0000976	.0016936
%RSD	518.0523	42.23197	391.8537	1999.930	85.05202	69.47123	238.6175
#1	-.000234	.0140702	-.000364	-.000106	-.252849	.0000715	-.000488
#2	.000134	.0075992	.000171	.000122	-.062934	.0002096	.001907

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0623983	-.000778	.0014739	.0000807	-.005388	-.004528	-.000449
Stddev	.0149581	.002115	.0008192	.0002828	.000884	.000521	.000184
%RSD	23.97189	271.9215	55.58129	350.2505	16.39795	11.51384	40.94405
#1	.0729753	.000718	.0020531	.0002807	-.004763	-.004897	-.000319
#2	.0518214	-.002273	.0008946	-.000119	-.006013	-.004159	-.000579

Sample Name: PB48189BL Acquired: 3/15/2010 11:22:38 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: PBW Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	Ti3361	Li6707
Units	ppm	ppm
Avg	-.000100	-.001898
Stddev	.000008	.000568
%RSD	7.787614	29.94168
#1	-.000105	-.002300
#2	-.000094	-.001496

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	295.2407	4015.246	93237.34	15285.76	5286.084
Stddev	1.2892	1.725	251.30	88.87	12.571
%RSD	.4366691	.0429547	.2695225	.5814221	.2378186
#1	296.1523	4014.027	93415.03	15222.92	5277.195
#2	294.3291	4016.466	93059.65	15348.60	5294.973

Sample Name: PB48189BS Acquired: 3/15/2010 11:25:03 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: LCSW Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9051368	.9309334	.8883728	.9216468	.8998489	2.268776	.4649294
Stddev	.0024303	.0047759	.0017746	.0003448	.0015945	.005817	.0015749
%RSD	.2685046	.5130268	.1997597	.0374151	.1771966	.2563897	.3387309
#1	.9068553	.9343105	.8871180	.9218906	.9009763	2.264663	.4638158
#2	.9034182	.9275563	.8896277	.9214030	.8987214	2.272889	.4660430

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4529820	.4397814	9.703542	.4654787	.4336588	.4529145	4.639782
Stddev	.0002638	.0005696	.029191	.0005904	.0006080	.0009313	.027011
%RSD	.0582365	.1295091	.3008283	.1268346	.1402110	.2056339	.5821685
#1	.4527955	.4393786	9.724183	.4658961	.4340888	.4522560	4.658882
#2	.4531685	.4401841	9.682900	.4650612	.4332289	.4535731	4.620682

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4580095	5.515491	.4443026	.4600667	9.341614	.4768716	.8986859
Stddev	.0011077	.028827	.0002463	.0006277	.048320	.0009923	.0017415
%RSD	.2418422	.5226508	.0554245	.1364437	.5172554	.2080756	.1937884
#1	.4587927	5.535874	.4441284	.4596228	9.307446	.4761700	.8999174
#2	.4572262	5.495107	.4444767	.4605105	9.375781	.4775732	.8974545

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.474516	-.013421	-.002069	-.000511	.0086533	-.023653	-.009539
Stddev	.028368	.000667	.003289	.000192	.0002923	.001542	.000308
%RSD	.3347483	4.968894	158.9921	37.68622	3.378391	6.519210	3.231378
#1	8.494576	-.013892	.000257	-.000375	.0088600	-.022563	-.009757
#2	8.454457	-.012949	-.004394	-.000647	.0084466	-.024744	-.009321

Sample Name: PB48189BS Acquired: 3/15/2010 11:25:03 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: LCSW Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	Ti3361	Li6707
Units	ppm	ppm
Avg	-.000217	-.004634
Stddev	.000654	.000415
%RSD	301.2575	8.962708
#1	.000245	-.004340
#2	-.000679	-.004928

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	314.3201	4058.873	94069.08	15755.51	5218.161
Stddev	.2977	13.377	294.07	8.67	17.464
%RSD	.0947083	.3295802	.3126124	.0550461	.3346853
#1	314.5306	4068.332	94277.02	15761.64	5230.510
#2	314.1096	4049.414	93861.14	15749.37	5205.812

Sample Name: B1560-01 Acquired: 3/15/2010 11:27:20 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: MF3FX7 Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0039408	.0031183	.0027454	-.003086	-.002899	.0559805	.1426566
Stddev	.0025287	.0008376	.0014887	.001442	.000471	.0008367	.0037707
%RSD	64.16686	26.86222	54.22501	46.73983	16.23144	1.494605	2.643200
#1	.0021528	.0025260	.0016927	-.002066	-.003232	.0553889	.1453229
#2	.0057288	.0037106	.0037980	-.004106	-.002566	.0565722	.1399903

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000435	.0000239	137.9164	.0005131	-.000805	.0059901	.2286999
Stddev	.0000765	.0000482	3.5382	.0004520	.000111	.0011246	.0066279
%RSD	176.0822	201.3909	2.565461	88.09527	13.79216	18.77343	2.898080
#1	-.000011	.0000581	140.4183	.0008326	-.000884	.0067853	.2333865
#2	.000098	-.000010	135.4145	.0001935	-.000727	.0051949	.2240132

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0349952	8.682390	.0008457	-.000148	14.40709	.0006262	.1138518
Stddev	.0011645	.170097	.0003320	.000370	.38168	.0001115	.0044207
%RSD	3.327466	1.959105	39.25874	249.3038	2.649249	17.81323	3.882842
#1	.0358185	8.802667	.0006109	-.000410	14.67698	.0005473	.1169777
#2	.0341718	8.562113	.0010804	.000113	14.13720	.0007051	.1107259

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.092159	.0359139	.0366419	.0007373	20.61813	7.201942	-.010628
Stddev	.073493	.0006312	.0043436	.0002676	.03371	.154259	.000351
%RSD	6.729174	1.757474	11.85408	36.29437	.1634777	2.141913	3.302901
#1	1.144127	.0363602	.0397133	.0009265	20.64196	7.311019	-.010876
#2	1.040192	.0354676	.0335706	.0005481	20.59429	7.092864	-.010380

Sample Name: B1560-01 Acquired: 3/15/2010 11:27:20 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: MF3FX7 Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	Ti3361	Li6707
Units	ppm	ppm
Avg	.0012575	.0065011
Stddev	.0000031	.0009191
%RSD	.2471232	14.13813
#1	.0012597	.0071511
#2	.0012553	.0058512

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	304.0739	3770.320	87300.89	15575.86	4733.528
Stddev	8.2393	14.515	185.74	421.51	3.105
%RSD	2.709653	.3849815	.2127547	2.706193	.0655988
#1	298.2478	3780.583	87432.23	15277.81	4731.332
#2	309.9000	3760.056	87169.56	15873.91	4735.723

Sample Name: B1560-02 Acquired: 3/15/2010 11:29:43 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: MF3FY1 Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0013106	.0021344	.0015744	-.003208	-.002433	-.005666	.1399506
Stddev	.0006038	.0003945	.0011651	.001527	.000480	.009961	.0010759
%RSD	46.07022	18.48126	74.00090	47.60194	19.71562	175.8089	.7687396
#1	.0017375	.0024133	.0023983	-.004288	-.002773	.001378	.1391899
#2	.0008836	.0018555	.0007506	-.002128	-.002094	-.012709	.1407113

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000955	-.000001	116.6829	.0004076	-.000798	.0031167	.0751755
Stddev	.0000648	.000001	.4991	.0001178	.000237	.0016226	.0036211
%RSD	67.84295	92.19713	.4277279	28.89576	29.64809	52.06192	4.816907
#1	.0000497	-.000000	116.3300	.0003243	-.000965	.0019694	.0777361
#2	.0001414	-.000002	117.0358	.0004909	-.000631	.0042641	.0726150

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0238004	5.072862	.0007227	.0000348	8.663437	.0000124	.0057497
Stddev	.0001864	.009246	.0002019	.0002142	.143765	.0003410	.0001991
%RSD	.7832238	.1822715	27.93487	615.7074	1.659446	2752.301	3.462391
#1	.0236686	5.066323	.0008654	.0001863	8.561780	-.000229	.0058905
#2	.0239322	5.079400	.0005799	-.000117	8.765095	.000254	.0056090

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4564803	.0059843	.0288240	.0008044	14.20282	7.243332	-.010331
Stddev	.0196829	.0006505	.0006648	.0000977	.03758	.023612	.000351
%RSD	4.311878	10.87007	2.306388	12.13978	.2645874	.3259817	3.398664
#1	.4425624	.0064443	.0292941	.0008735	14.22940	7.226636	-.010579
#2	.4703982	.0055244	.0283539	.0007354	14.17625	7.260028	-.010083

Sample Name: B1560-02 Acquired: 3/15/2010 11:29:43 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: MF3FY1 Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	Ti3361	Li6707
Units	ppm	ppm
Avg	-.002923	.0039314
Stddev	.000290	.0010010
%RSD	9.932806	25.46109
#1	-.002718	.0046392
#2	-.003128	.0032236

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	298.2751	3780.871	87759.56	15462.78	4799.001
Stddev	2.1212	1.823	37.79	64.32	6.583
%RSD	.7111581	.0482185	.0430626	.4159983	.1371694
#1	296.7752	3782.160	87786.29	15508.26	4794.347
#2	299.7750	3779.582	87732.84	15417.29	4803.656

Sample Name: B1560-03 Acquired: 3/15/2010 11:32:06 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: MF3FY2 Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002962	.0017049	.0046190	-.003383	-.001400	.0396099	.1312036
Stddev	.0018950	.0008686	.0013600	.002581	.000929	.0062765	.0026723
%RSD	639.7947	50.94958	29.44317	76.29822	66.34464	15.84586	2.036735
#1	.0016361	.0023191	.0036573	-.005208	-.002057	.0351718	.1293140
#2	-.001044	.0010907	.0055806	-.001558	-.000743	.0440481	.1330931

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000838	.0002814	106.6352	.0009391	-.000863	.0148816	.4528496
Stddev	.0000687	.0000100	2.4027	.0001567	.000144	.0010826	.0070848
%RSD	81.90976	3.540684	2.253190	16.68872	16.64692	7.274841	1.564502
#1	.0001324	.0002743	104.9363	.0008283	-.000762	.0141161	.4478398
#2	.0000353	.0002884	108.3342	.0010499	-.000965	.0156472	.4578593

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0232411	8.134715	.0015698	-.000240	10.09342	.0004219	.4280330
Stddev	.0003458	.162888	.0000091	.000331	.08855	.0002170	.0072354
%RSD	1.487959	2.002378	.5778982	137.7023	.8772574	51.43735	1.690390
#1	.0229965	8.019536	.0015633	-.000474	10.03080	.0002685	.4229168
#2	.0234856	8.249894	.0015762	-.000006	10.15603	.0005754	.4331492

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7817471	.0139771	.0328390	.0010126	12.90857	8.576414	-.010004
Stddev	.0042744	.0012472	.0031651	.0002032	.00622	.167760	.000762
%RSD	.5467717	8.923191	9.638103	20.06562	.0481563	1.956061	7.621371
#1	.7787247	.0130951	.0350770	.0008690	12.91297	8.457789	-.010543
#2	.7847696	.0148589	.0306009	.0011563	12.90418	8.695038	-.009465

Sample Name: B1560-03 Acquired: 3/15/2010 11:32:06 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: MF3FY2 Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	Ti3361	Li6707
Units	ppm	ppm
Avg	-.001961	.0049293
Stddev	.000191	.0001411
%RSD	9.753970	2.861802
#1	-.001826	.0048296
#2	-.002096	.0050291

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	301.9362	3706.222	90742.13	15555.91	4729.644
Stddev	6.1676	2.561	9.90	326.25	.778
%RSD	2.042689	.0691109	.0109097	2.097294	.0164465
#1	306.2973	3708.033	90749.13	15786.61	4729.094
#2	297.5750	3704.411	90735.13	15325.22	4730.194

Sample Name: B1560-04 Acquired: 3/15/2010 11:34:28 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: MF3FY3 Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0027640	.0012369	.0069008	-.002982	-.003198	.2833228	.1389566
Stddev	.0016865	.0001370	.0013088	.000104	.000463	.0053981	.0008912
%RSD	61.01553	11.07915	18.96533	3.500529	14.49006	1.905272	.6413329
#1	.0039565	.0013338	.0078262	-.002908	-.003526	.2871398	.1383265
#2	.0015715	.0011400	.0059754	-.003056	-.002870	.2795058	.1395868

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001269	.0001294	100.8444	.0031043	-.000503	.0088466	1.842279
Stddev	.0001874	.0000294	.2167	.0003038	.000019	.0008641	.005678
%RSD	147.6262	22.71990	.2148888	9.784922	3.800680	9.767549	.3082239
#1	-.000006	.0001502	100.6912	.0033191	-.000490	.0094577	1.846294
#2	.000259	.0001086	100.9977	.0028895	-.000517	.0082356	1.838264

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1066526	5.038027	.0027176	-.000268	12.43573	.0015275	.0129930
Stddev	.0003329	.012949	.0001510	.000420	.00227	.0004861	.0000427
%RSD	.3121811	.2570298	5.556442	156.6730	.0182665	31.82292	.3284762
#1	.1064172	5.028871	.0026108	-.000565	12.43412	.0011838	.0129629
#2	.1068881	5.047184	.0028244	.000029	12.43733	.0018712	.0130232

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6428430	.0353526	.0312921	.0008409	11.91615	8.281063	-.009905
Stddev	.0204633	.0000957	.0021480	.0001718	.02060	.042550	.000799
%RSD	3.183249	.2707495	6.864354	20.43319	.1728648	.5138282	8.063452
#1	.6573128	.0352850	.0297732	.0007194	11.90158	8.250975	-.010470
#2	.6283733	.0354203	.0328109	.0009624	11.93071	8.311151	-.009340

Sample Name: B1560-04 Acquired: 3/15/2010 11:34:28 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: MF3FY3 Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	Ti3361	Li6707
Units	ppm	ppm
Avg	.0004782	.0043320
Stddev	.0006410	.0002456
%RSD	134.0339	5.670667
#1	.0000250	.0045057
#2	.0009315	.0041583

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	299.2989	3761.798	87418.33	15276.19	4807.802
Stddev	1.0197	3.719	95.29	38.53	8.646
%RSD	.3407080	.0988674	.1090091	.2522445	.1798391
#1	300.0200	3764.428	87485.71	15248.94	4813.916
#2	298.5778	3759.168	87350.94	15303.44	4801.689

Sample Name: B1560-04LX5 Acquired: 3/15/2010 11:36:48 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: MF3FY3L Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0011249	-.001148	.0020403	-.003100	-.001525	.0490288	.0258806
Stddev	.0035733	.000268	.0005022	.001538	.001008	.0030994	.0004466
%RSD	317.6617	23.33904	24.61338	49.59879	66.07511	6.321508	1.725736
#1	-.001402	-.001337	.0023954	-.002013	-.002238	.0468373	.0261965
#2	.003652	-.000958	.0016852	-.004188	-.000813	.0512204	.0255648

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000524	.0000114	19.48727	.0007059	-.000345	.0002279	.3564751
Stddev	.0000678	.0000375	.01534	.0002573	.000098	.0011904	.0049440
%RSD	129.3637	328.4353	.0787413	36.45239	28.30531	522.4012	1.386906
#1	.0001004	-.000015	19.49812	.0008878	-.000414	.0010696	.3599711
#2	.0000045	.000038	19.47642	.0005239	-.000276	-.000614	.3529792

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0210852	.9983935	.0003879	.0002727	2.376235	.0004979	.0026644
Stddev	.0000146	.0093279	.0000266	.0000511	.155319	.0003316	.0002572
%RSD	.0689915	.9342933	6.857603	18.74527	6.536352	66.58599	9.652238
#1	.0210954	.9917976	.0004067	.0003088	2.486062	.0007324	.0028463
#2	.0210749	1.004989	.0003691	.0002365	2.266408	.0002635	.0024826

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1339593	.0060586	.0047486	.0002393	2.096227	1.579145	-.002931
Stddev	.0463818	.0002626	.0004688	.0000895	.002620	.009281	.000217
%RSD	34.62385	4.333722	9.871531	37.41990	.1249670	.5877241	7.396776
#1	.1011623	.0062443	.0050801	.0001760	2.094375	1.585708	-.002777
#2	.1667562	.0058730	.0044171	.0003026	2.098080	1.572583	-.003084

Sample Name: B1560-04LX5 Acquired: 3/15/2010 11:36:48 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: MF3FY3L Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	Ti3361	Li6707
Units	ppm	ppm
Avg	-.000481	-.001127
Stddev	.000228	.000231
%RSD	47.48019	20.46537
#1	-.000642	-.001290
#2	-.000319	-.000964

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	299.6574	3889.120	90268.53	15412.03	5101.375
Stddev	2.6828	12.468	214.84	23.17	13.146
%RSD	.8952776	.3205823	.2379980	.1503685	.2576969
#1	297.7604	3880.304	90420.44	15428.42	5092.080
#2	301.5544	3897.936	90116.62	15395.64	5110.671

Sample Name: B1560-05 Acquired: 3/15/2010 11:39:09 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: MF3FY3D Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0011875	.0012747	.0059557	-.004153	-.003197	.3715096	.1353234
Stddev	.0018776	.0005129	.0008079	.002064	.002064	.0006125	.0001241
%RSD	158.1210	40.23611	13.56490	49.70120	64.57142	.1648613	.0917004
#1	.0025151	.0016374	.0065269	-.005612	-.004656	.3719427	.1354111
#2	-.000140	.0009120	.0053844	-.002693	-.001737	.3710765	.1352356

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002298	.0001036	107.0668	.0036732	-.000487	.0077220	1.750188
Stddev	.0000399	.0000506	.2308	.0002632	.000155	.0000878	.001014
%RSD	17.33908	48.89826	.2155382	7.166222	31.85761	1.137213	.0579452
#1	.0002017	.0000678	107.2300	.0034870	-.000377	.0076599	1.750905
#2	.0002580	.0001394	106.9036	.0038593	-.000597	.0077841	1.749471

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0936002	5.236589	.0027363	.0000648	13.36709	.0017371	.0180003
Stddev	.0000612	.027138	.0001200	.0000067	.03975	.0001539	.0008387
%RSD	.0653950	.5182361	4.385876	10.32554	.2973525	8.861477	4.659331
#1	.0936435	5.255779	.0026515	.0000601	13.33898	.0018459	.0185934
#2	.0935570	5.217400	.0028212	.0000695	13.39519	.0016282	.0174073

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.107550	.0487698	.0286658	.0009358	12.39006	8.475610	-.010148
Stddev	.027194	.0008310	.0000063	.0000173	.06943	.003154	.000469
%RSD	2.455290	1.703859	.0219551	1.849641	.5604069	.0372107	4.624618
#1	1.126779	.0481823	.0286703	.0009235	12.34096	8.473380	-.009816
#2	1.088322	.0493574	.0286613	.0009480	12.43916	8.477840	-.010479

Sample Name: B1560-05 Acquired: 3/15/2010 11:39:09 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: MF3FY3D Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	Ti3361	Li6707
Units	ppm	ppm
Avg	.0003313	.0060465
Stddev	.0003502	.0005715
%RSD	105.7029	9.452305
#1	.0000837	.0056424
#2	.0005790	.0064507

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	301.3336	3788.016	88161.89	15409.60	4793.194
Stddev	.8010	2.878	18.88	8.72	19.919
%RSD	.2658129	.0759655	.0214097	.0565874	.4155620
#1	300.7672	3790.051	88148.54	15403.44	4807.278
#2	301.9000	3785.981	88175.23	15415.77	4779.109

Sample Name: B1560-06 Acquired: 3/15/2010 11:41:30 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: MF3FY3S Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0433197	.0503100	.0236442	.0508079	.0959880	2.136155	2.050330
Stddev	.0012122	.0006926	.0004476	.0021200	.0001897	.008792	.010355
%RSD	2.798325	1.376678	1.893033	4.172583	.1976621	.4115622	.5050643
#1	.0424625	.0507997	.0239607	.0523070	.0958538	2.129939	2.043007
#2	.0441768	.0498203	.0233277	.0493089	.0961221	2.142372	2.057652

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0469209	.0474154	102.4704	.1901009	.4499489	.2393954	2.494794
Stddev	.0003209	.0001073	.2105	.0005423	.0011404	.0021615	.019808
%RSD	.6839628	.2262456	.2053863	.2852603	.2534550	.9029221	.7939814
#1	.0466939	.0474913	102.3215	.1897174	.4507553	.2409238	2.480787
#2	.0471478	.0473396	102.6192	.1904843	.4491425	.2378669	2.508800

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5470857	4.989874	.4570612	.0410955	12.90866	.4682203	.4722042
Stddev	.0045133	.025844	.0001317	.0001649	.00932	.0017037	.0025202
%RSD	.8249793	.5179357	.0288226	.4013478	.0722156	.3638710	.5337147
#1	.5438943	5.008149	.4569681	.0412121	12.90207	.4670156	.4739863
#2	.5502771	4.971600	.4571544	.0409789	12.91525	.4694250	.4704222

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8231243	.0358578	.0275538	.0005935	11.88580	8.009000	-.009684
Stddev	.0066181	.0019088	.0029611	.0000179	.01760	.033475	.000349
%RSD	.8040257	5.323153	10.74647	3.010328	.1480389	.4179624	3.605400
#1	.8278040	.0372075	.0254600	.0005808	11.89824	7.985330	-.009437
#2	.8184446	.0345081	.0296476	.0006061	11.87336	8.032671	-.009931

Sample Name: B1560-06 Acquired: 3/15/2010 11:41:30 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: MF3FY3S Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	Ti3361	Li6707
Units	ppm	ppm
Avg	.0000261	.0047811
Stddev	.0001009	.0004462
%RSD	387.2431	9.331980
#1	-.000045	.0044656
#2	.000097	.0050966

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	301.0415	3785.537	88636.78	15533.82	4802.749
Stddev	.3846	4.386	87.67	16.35	6.979
%RSD	.1277516	.1158718	.0989087	.1052570	.1453171
#1	300.7695	3788.639	88574.79	15545.38	4807.684
#2	301.3134	3782.436	88698.77	15522.26	4797.814

Sample Name: B1560-07 Acquired: 3/15/2010 11:43:48 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: MF3FY4 Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0019443	.0026402	.0146482	-.003636	-.003383	.3014703	.1408334
Stddev	.0010077	.0007264	.0021054	.000711	.000009	.0058473	.0000752
%RSD	51.82942	27.51158	14.37278	19.55121	.2674596	1.939587	.0533797
#1	.0026568	.0031539	.0161370	-.003134	-.003377	.3056050	.1407803
#2	.0012317	.0021266	.0131595	-.004139	-.003390	.2973357	.1408866

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001456	.0001043	102.8188	.0033694	-.000338	.0070619	1.941252
Stddev	.0002642	.0000301	.5261	.0001335	.000054	.0018676	.008865
%RSD	181.4447	28.81350	.5116536	3.961177	15.90831	26.44646	.4566870
#1	-.000041	.0000831	103.1907	.0032750	-.000377	.0057413	1.947521
#2	.000332	.0001256	102.4468	.0034638	-.000300	.0083826	1.934983

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1110648	5.202313	.0025441	.0001621	12.82507	.0017391	.0146292
Stddev	.0010012	.052089	.0000478	.0000580	.03407	.0002631	.0009850
%RSD	.9014589	1.001266	1.880033	35.76622	.2656491	15.13025	6.732805
#1	.1117727	5.239146	.0025103	.0001211	12.80098	.0015531	.0139328
#2	.1103568	5.165481	.0025779	.0002031	12.84916	.0019252	.0153257

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6932506	.0351828	.0289472	.0006577	12.28322	8.493490	-.008731
Stddev	.0232206	.0012279	.0018496	.0001561	.00096	.049452	.000952
%RSD	3.349525	3.489936	6.389682	23.74017	.0078243	.5822356	10.90912
#1	.6768311	.0360511	.0302550	.0007681	12.28390	8.528458	-.009404
#2	.7096700	.0343146	.0276393	.0005473	12.28254	8.458522	-.008057

Sample Name: B1560-07 Acquired: 3/15/2010 11:43:48 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: MF3FY4 Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	Ti3361	Li6707
Units	ppm	ppm
Avg	.0003911	.0050071
Stddev	.0000218	.0002533
%RSD	5.570419	5.058357
#1	.0003757	.0048281
#2	.0004065	.0051862

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	294.7440	3714.352	87070.60	15396.20	4770.658
Stddev	.3451	2.933	4.45	129.32	9.239
%RSD	.1170842	.0789554	.0051097	.8399441	.1936611
#1	294.9880	3712.278	87073.75	15304.76	4777.190
#2	294.5000	3716.426	87067.45	15487.64	4764.125

Sample Name: CCV Acquired: 3/15/2010 11:46:09 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: CCV Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.960667	4.947109	4.805141	4.943341	4.979036	9.693561	9.677679
Stddev	.011810	.009248	.009383	.014221	.004640	.023318	.102858
%RSD	.2380698	.1869348	.1952619	.2876857	.0931818	.2405526	1.062834
#1	4.952316	4.940570	4.798507	4.933285	4.975755	9.710049	9.750410
#2	4.969018	4.953648	4.811776	4.953397	4.982317	9.677072	9.604947

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2346463	2.410663	23.94512	.9959564	2.440551	1.225755	4.822300
Stddev	.0004834	.008721	.01787	.0006066	.006101	.004884	.002568
%RSD	.2060231	.3617581	.0746482	.0609037	.2499677	.3984580	.0532610
#1	.2343045	2.404496	23.95776	.9963853	2.436237	1.229209	4.824116
#2	.2349882	2.416829	23.93248	.9955275	2.444865	1.222302	4.820484

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.403878	23.59555	2.428846	1.180849	24.38810	2.466278	2.377872
Stddev	.006263	.03596	.006729	.001124	.02886	.004590	.001737
%RSD	.2605570	.1524062	.2770600	.0951633	.1183444	.1860940	.0730599
#1	2.408307	23.57012	2.424087	1.181643	24.36769	2.469524	2.379100
#2	2.399449	23.62098	2.433604	1.180054	24.40851	2.463033	2.376643

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.26528	4.878475	4.785905	5.080102	4.643783	4.778006	4.826376
Stddev	.01450	.013431	.003218	.009767	.020756	.012389	.013221
%RSD	.0597544	.2753176	.0672382	.1922618	.4469599	.2592889	.2739256
#1	24.27554	4.868978	4.788180	5.073196	4.629106	4.769246	4.817027
#2	24.25503	4.887972	4.783630	5.087009	4.658460	4.786766	4.835724

Sample Name: CCV Acquired: 3/15/2010 11:46:09 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: CCV Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	Ti3361	Li6707
Units	ppm	ppm
Avg	4.866474	4.946444
Stddev	.028139	.031231
%RSD	.5782297	.6313785
#1	4.886372	4.968527
#2	4.846577	4.924360

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	292.7756	3719.934	86802.73	15325.73	4605.217
Stddev	1.6740	3.207	154.61	27.06	5.771
%RSD	.5717764	.0862079	.1781185	.1765799	.1253110
#1	291.5919	3717.667	86693.40	15306.59	4601.136
#2	293.9593	3722.202	86912.06	15344.86	4609.297

Sample Name: CCB Acquired: 3/15/2010 11:48:21 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: CCB Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0019666	.0048700	-.000068	-.001387	.0018016	-.000674	.0011428
Stddev	.0004348	.0017306	.001315	.002161	.0007398	.005320	.0002299
%RSD	22.10827	35.53568	1929.115	155.7854	41.06142	789.2150	20.11640
#1	.0016592	.0060937	.000862	-.002915	.0012785	.003088	.0013054
#2	.0022741	.0036463	-.000998	.000141	.0023247	-.004436	.0009803

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001315	.0006718	.0114426	.0000881	.0007663	-.000341	.0007750
Stddev	.0002148	.0000275	.0110127	.0003034	.0000534	.000850	.0036850
%RSD	163.2858	4.095329	96.24238	344.4812	6.961458	249.4038	475.4762
#1	.0002834	.0006523	.0036555	.0003026	.0007286	-.000942	.0033807
#2	-.000020	.0006913	.0192298	-.000126	.0008041	.000260	-.001831

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005444	.0404670	.0005515	.0000001	.0408875	.0008102	.0021702
Stddev	.0005132	.0001125	.0000782	.0004339	.0221352	.0003781	.0004071
%RSD	94.26253	.2779049	14.18766	516547.4	54.13702	46.66411	18.75736
#1	.0009073	.0403875	.0004962	-.000307	.0565394	.0005428	.0018824
#2	.0001815	.0405465	.0006068	.000307	.0252355	.0010775	.0024581

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0540701	.0022954	.0099901	.0036807	-.006578	-.002921	.0014646
Stddev	.0402442	.0001205	.0019662	.0004023	.001106	.001737	.0005345
%RSD	74.42959	5.248822	19.68164	10.92883	16.81413	59.45797	36.49844
#1	.0256132	.0022102	.0113804	.0039651	-.007360	-.004149	.0018425
#2	.0825271	.0023806	.0085998	.0033963	-.005796	-.001693	.0010866

Sample Name: CCB Acquired: 3/15/2010 11:48:21 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: CCB Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	Ti3361	Li6707
Units	ppm	ppm
Avg	.0012700	.0007936
Stddev	.0002875	.0000530
%RSD	22.63445	6.677754
#1	.0010667	.0008311
#2	.0014732	.0007562

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	300.3200	3912.260	92589.77	15469.10	5206.042
Stddev	3.9174	46.253	499.61	43.42	60.042
%RSD	1.304412	1.182256	.5395901	.2806665	1.153323
#1	297.5500	3944.966	92943.05	15438.40	5248.498
#2	303.0901	3879.554	92236.50	15499.80	5163.585

Sample Name: B1560-08 Acquired: 3/15/2010 11:50:45 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: MF3FZ0 Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005307	.0043255	.0012432	-.005717	-.001997	-.004531	.0966192
Stddev	.0002213	.0000713	.0010666	.004254	.000178	.003685	.0009559
%RSD	41.70040	1.648139	85.79825	74.41379	8.939771	81.31570	.9893088
#1	.0003742	.0043759	.0004890	-.002709	-.002123	-.007137	.0959433
#2	.0006871	.0042751	.0019974	-.008725	-.001870	-.001926	.0972951

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000463	-.000050	76.79789	-.000130	-.000898	.0008624	.1060876
Stddev	.0000943	.000039	.70019	.000015	.000015	.0001682	.0001931
%RSD	203.6402	78.02585	.9117352	11.37140	1.704937	19.50288	.1819685
#1	-.000020	-.000022	76.30278	-.000120	-.000909	.0009813	.1062241
#2	.000113	-.000078	77.29300	-.000141	-.000887	.0007435	.1059511

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0160250	12.83419	.0007528	-.000328	34.26337	-.000175	.0318166
Stddev	.0000415	.10396	.0004788	.000169	.23471	.000007	.0002385
%RSD	.2588633	.8100078	63.60887	51.49907	.6850282	3.742727	.7496880
#1	.0159957	12.76068	.0010914	-.000208	34.09740	-.000180	.0316480
#2	.0160544	12.90770	.0004142	-.000447	34.42934	-.000171	.0319853

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.356007	.0090901	.0871032	.0009438	13.25584	8.124271	-.010236
Stddev	.002870	.0010266	.0003199	.0000533	.01692	.061778	.000724
%RSD	.2116865	11.29335	.3672195	5.646523	.1276731	.7604086	7.076069
#1	1.358036	.0083642	.0873294	.0009815	13.24387	8.080588	-.010748
#2	1.353977	.0098160	.0868770	.0009061	13.26780	8.167955	-.009724

Sample Name: B1560-08 Acquired: 3/15/2010 11:50:45 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: MF3FZ0 Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	Ti3361	Li6707
Units	ppm	ppm
Avg	-.002284	.0132064
Stddev	.000502	.0001619
%RSD	21.97411	1.225741
#1	-.001929	.0130920
#2	-.002639	.0133209

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	309.0847	3816.212	89702.83	15904.96	4815.556
Stddev	4.7594	10.538	363.13	171.16	7.381
%RSD	1.539844	.2761322	.4048134	1.076156	.1532806
#1	312.4501	3808.761	89959.60	16025.99	4820.775
#2	305.7193	3823.664	89446.06	15783.93	4810.336

Sample Name: B1560-09 Acquired: 3/15/2010 11:53:06 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: MF3FZ1 Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0018673	.0022815	-.000385	-.001855	-.002747	.0016117	.1464093
Stddev	.0008712	.0005357	.000030	.000924	.000646	.0093561	.0002063
%RSD	46.65334	23.48012	7.874213	49.82916	23.49979	580.5071	.1409153
#1	.0012513	.0019027	-.000406	-.001201	-.003204	-.005004	.1465552
#2	.0024833	.0026603	-.000364	-.002508	-.002291	.008227	.1462635

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000311	-.000009	90.92997	.0001910	-.000920	-.000963	.0373276
Stddev	.0000176	.000026	.20946	.0003161	.000211	.000640	.0003190
%RSD	56.56602	297.8918	.2303538	165.4748	22.90743	66.49201	.8546795
#1	.0000186	.000010	90.78186	-.000032	-.000771	-.000510	.0371020
#2	.0000435	-.000027	91.07808	.000415	-.001069	-.001416	.0375531

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0137850	7.038727	.0004625	.0000388	15.52080	.0001845	.0069094
Stddev	.0003502	.015758	.0001005	.0001709	.07046	.0000323	.0002904
%RSD	2.540364	.2238735	21.72070	440.6923	.4539521	17.49190	4.203261
#1	.0140326	7.027584	.0005335	.0001596	15.57062	.0001617	.0071148
#2	.0135373	7.049869	.0003914	-.000082	15.47098	.0002073	.0067041

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8050051	.0092922	.0543619	.0009095	8.870729	7.592596	-.011005
Stddev	.0051876	.0011711	.0040180	.0002967	.012255	.035728	.000379
%RSD	.6444180	12.60319	7.391132	32.61645	.1381498	.4705587	3.447838
#1	.8013369	.0084641	.0572030	.0011193	8.862063	7.567333	-.010737
#2	.8086733	.0101203	.0515207	.0006998	8.879394	7.617859	-.011273

Sample Name: B1560-09 Acquired: 3/15/2010 11:53:06 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: MF3FZ1 Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	Ti3361	Li6707
Units	ppm	ppm
Avg	-.002076	.0065482
Stddev	.000385	.0008517
%RSD	18.54600	13.00586
#1	-.002348	.0059460
#2	-.001804	.0071504

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	306.3936	3745.160	89231.67	15929.89	4830.729
Stddev	2.2010	12.254	446.64	93.05	11.750
%RSD	.7183698	.3272068	.5005373	.5841335	.2432415
#1	304.8373	3753.825	89547.49	15995.69	4839.038
#2	307.9500	3736.495	88915.85	15864.09	4822.421

Sample Name: PB48205BL Acquired: 3/15/2010 11:55:29 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: PBW Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006634	.0003288	-.000630	-.002004	-.002356	-.008589	-.002237
Stddev	.0014275	.0003271	.000518	.002077	.000028	.001586	.000085
%RSD	215.1856	99.48866	82.15002	103.6413	1.185146	18.46473	3.797829
#1	.0016728	.0000975	-.000996	-.003473	-.002376	-.007467	-.002297
#2	-.000346	.0005601	-.000264	-.000535	-.002336	-.009710	-.002177

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001638	.0000116	-.005565	.0000796	.0001246	-.000789	-.001085
Stddev	.0003233	.0000138	.001977	.0000940	.0000876	.000100	.002882
%RSD	197.4542	119.3139	35.52112	118.1256	70.26078	12.70489	265.6825
#1	-.000065	.0000018	-.006962	.0001460	.0001865	-.000860	.000953
#2	.000392	.0000214	-.004167	.0000131	.0000627	-.000718	-.003122

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000056	.0153338	.0000982	-.000541	.0070076	.0005315	.0006175
Stddev	.000061	.0072470	.0002860	.000217	.0269609	.0001280	.0009864
%RSD	108.3691	47.26182	291.3851	40.06329	384.7362	24.08417	159.7388
#1	-.000099	.0204583	.0003004	-.000388	-.012057	.0006220	-.000080
#2	-.000013	.0102094	-.000104	-.000695	.026072	.0004410	.001315

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0236698	.0010941	.0000393	.0001514	-.005596	-.006087	-.000719
Stddev	.0465352	.0014087	.0013940	.0003883	.002054	.003900	.000304
%RSD	196.6016	128.7470	3543.793	256.4167	36.70508	64.07040	42.34635
#1	-.009236	.0020902	.0010251	-.000123	-.007048	-.003330	-.000934
#2	.056575	.0000981	-.000946	.000426	-.004143	-.008845	-.000504

Sample Name: PB48205BL Acquired: 3/15/2010 11:55:29 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: PBW Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	Ti3361	Li6707
Units	ppm	ppm
Avg	-.000680	-.001782
Stddev	.000158	.000841
%RSD	23.28066	47.17573
#1	-.000568	-.002376
#2	-.000792	-.001187

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	298.9446	3867.350	92551.79	15863.37	5220.739
Stddev	4.1363	.178	585.40	22.76	6.676
%RSD	1.383635	.0045899	.6325105	.1434575	.1278695
#1	296.0198	3867.224	92965.73	15879.47	5225.459
#2	301.8694	3867.475	92137.85	15847.28	5216.018

Sample Name: PB48205BS Acquired: 3/15/2010 11:57:53 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: LCSW Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9879601	1.002593	.9247770	1.011922	.9852610	2.372450	.4848263
Stddev	.0038828	.004683	.0042242	.001807	.0010589	.001157	.0002290
%RSD	.3930087	.4670969	.4567853	.1785301	.1074772	.0487779	.0472356
#1	.9907057	.999282	.9277640	1.013200	.9860098	2.373268	.4849883
#2	.9852146	1.005905	.9217900	1.010645	.9845122	2.371631	.4846644

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4642139	.4561354	9.931044	.4859421	.4589944	.4857171	4.791094
Stddev	.0009315	.0002081	.022483	.0005336	.0007512	.0014140	.013836
%RSD	.2006669	.0456234	.2263916	.1098155	.1636512	.2911200	.2887961
#1	.4648726	.4559882	9.915146	.4855647	.4595255	.4867169	4.800878
#2	.4635552	.4562826	9.946942	.4863194	.4584632	.4847172	4.781310

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4711095	5.573898	.4662581	.4755640	9.918420	.4852098	.9355139
Stddev	.0008239	.029012	.0002256	.0017472	.004579	.0007303	.0096260
%RSD	.1748780	.5204891	.0483791	.3674004	.0461703	.1505111	1.028951
#1	.4705270	5.594412	.4664176	.4743285	9.915182	.4857262	.9287073
#2	.4716921	5.553383	.4660986	.4767995	9.921658	.4846934	.9423205

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.918673	-.014987	-.003373	-.000545	.0499450	-.023069	-.008862
Stddev	.088403	.001122	.000078	.000015	.0005907	.000290	.000828
%RSD	.9912142	7.488675	2.308368	2.764885	1.182791	1.259137	9.343115
#1	8.856163	-.014193	-.003318	-.000556	.0495273	-.023275	-.008277
#2	8.981184	-.015780	-.003428	-.000535	.0503627	-.022864	-.009448

Sample Name: PB48205BS Acquired: 3/15/2010 11:57:53 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: LCSW Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	Ti3361	Li6707
Units	ppm	ppm
Avg	-.000135	-.004839
Stddev	.000104	.000721
%RSD	76.91883	14.90288
#1	-.000208	-.005349
#2	-.000062	-.004329

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	317.7697	3911.372	93211.25	16264.86	5128.280
Stddev	1.1743	6.312	269.21	7.30	13.023
%RSD	.3695318	.1613658	.2888179	.0448544	.2539476
#1	318.6000	3915.835	93401.61	16270.02	5137.489
#2	316.9393	3906.909	93020.89	16259.70	5119.071

Sample Name: B1560-10 Acquired: 3/15/2010 12:00:10 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: MF3FX8 Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0032377	.0030701	.0124929	-.003717	-.002238	.0027281	.1074345
Stddev	.0002094	.0009867	.0004005	.001074	.000107	.0069657	.0006025
%RSD	6.466856	32.13810	3.205807	28.88226	4.792680	255.3351	.5608330
#1	.0030897	.0023724	.0122097	-.004477	-.002313	.0076536	.1078606
#2	.0033858	.0037678	.0127761	-.002958	-.002162	-.002197	.1070085

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001398	.0000799	79.75344	.0003450	-.000848	.0107112	.1054548
Stddev	.0000797	.0000519	.09404	.0001544	.000246	.0030188	.0013166
%RSD	57.00155	64.96949	.1179185	44.76063	29.02722	28.18322	1.248493
#1	.0001961	.0001166	79.68694	.0004542	-.001022	.0128458	.1063857
#2	.0000834	.0000432	79.81994	.0002358	-.000674	.0085766	.1045238

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0458150	14.09021	.0007913	.0002257	17.31089	.0002564	.0101686
Stddev	.0000178	.03086	.0000195	.0003657	.25201	.0002132	.0003227
%RSD	.0387497	.2190157	2.467575	162.0017	1.455794	83.14248	3.173232
#1	.0458024	14.11204	.0008051	-.000033	17.48909	.0001057	.0103967
#2	.0458276	14.06839	.0007774	.000484	17.13270	.0004072	.0099404

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.242300	.0076208	.0450016	.0015551	12.96965	8.316823	.0314797
Stddev	.002031	.0016334	.0009017	.0005222	.00229	.029951	.0003741
%RSD	.1635048	21.43360	2.003823	33.57845	.0176917	.3601293	1.188220
#1	1.243737	.0064658	.0456393	.0019243	12.97128	8.295644	.0317442
#2	1.240864	.0087758	.0443640	.0011858	12.96803	8.338001	.0312152

Sample Name: B1560-10 Acquired: 3/15/2010 12:00:10 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: MF3FX8 Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	Ti3361	Li6707
Units	ppm	ppm
Avg	-.001967	.0091103
Stddev	.000017	.0009988
%RSD	.8759742	10.96347
#1	-.001980	.0098165
#2	-.001955	.0084040

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	304.6807	3699.027	87880.23	15800.28	4777.070
Stddev	.8643	4.896	86.42	33.79	4.785
%RSD	.2836704	.1323476	.0983375	.2138599	.1001728
#1	304.0695	3702.489	87941.34	15824.17	4780.453
#2	305.2918	3695.566	87819.13	15776.38	4773.686

Sample Name: B1560-11 Acquired: 3/15/2010 12:02:31 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: MF3FX9 Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0016346	.0021190	.0024157	-.003660	-.003581	-.006393	.1021109
Stddev	.0005822	.0007629	.0006346	.001117	.001150	.005437	.0005331
%RSD	35.61781	36.00250	26.27079	30.51437	32.11387	85.05186	.5220374
#1	.0012229	.0026585	.0028644	-.004450	-.004395	-.010237	.1024879
#2	.0020463	.0015796	.0019669	-.002870	-.002768	-.002548	.1017340

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000028	.0000353	84.06960	.0019637	-.001030	.0022592	.0429783
Stddev	.000087	.0000575	.15464	.0000749	.000074	.0007209	.0019954
%RSD	313.5907	162.7872	.1839407	3.811892	7.166167	31.90836	4.642803
#1	.000034	-.000005	84.17894	.0019108	-.000977	.0017494	.0443893
#2	-.000089	.000076	83.96025	.0020167	-.001082	.0027689	.0415674

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0042655	10.04711	.0016616	.0000290	21.16020	.0002560	.0092739
Stddev	.0002481	.02801	.0000273	.0000609	.24714	.0000863	.0012365
%RSD	5.816803	.2787940	1.644522	210.3680	1.167969	33.72268	13.33333
#1	.0044410	10.06692	.0016423	-.000014	21.33496	.0003170	.0101483
#2	.0040901	10.02730	.0016809	.000072	20.98544	.0001949	.0083996

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.000435	.0121489	.0597340	.0010734	12.11412	7.532298	-.010015
Stddev	.009506	.0025604	.0013806	.0001297	.01501	.024398	.000726
%RSD	.9501474	21.07524	2.311227	12.08113	.1239227	.3239158	7.252009
#1	.993714	.0103384	.0607103	.0009817	12.12473	7.549550	-.010529
#2	1.007157	.0139594	.0587578	.0011651	12.10350	7.515046	-.009501

Sample Name: B1560-11 Acquired: 3/15/2010 12:02:31 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: MF3FX9 Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	Ti3361	Li6707
Units	ppm	ppm
Avg	-.002401	.0095225
Stddev	.000378	.0000636
%RSD	15.72908	.6682795
#1	-.002668	.0095674
#2	-.002134	.0094775

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	303.6035	3689.987	87564.87	15855.54	4775.988
Stddev	.2417	6.169	497.99	66.38	2.445
%RSD	.0796043	.1671777	.5687135	.4186536	.0511910
#1	303.4326	3694.349	87212.74	15808.60	4774.259
#2	303.7744	3685.625	87917.01	15902.48	4777.717

Sample Name: B1560-12 Acquired: 3/15/2010 12:04:51 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: MF3FY6 Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0107901	.0020868	.0250463	-.002474	-.002764	5.674647	.9517326
Stddev	.0023042	.0013916	.0003128	.000016	.000736	.052484	.0027784
%RSD	21.35472	66.68418	1.248818	.6364936	26.61794	.9248779	.2919276
#1	.0124194	.0030707	.0248251	-.002463	-.003284	5.637536	.9497680
#2	.0091608	.0011028	.0252674	-.002485	-.002243	5.711759	.9536973

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0014462	.0007793	170.7177	.0058976	.0304050	.0689508	6.532903
Stddev	.0000748	.0000591	.6786	.0007907	.0001981	.0019593	.041870
%RSD	5.174500	7.581289	.3975038	13.40645	.6516593	2.841598	.6409157
#1	.0013933	.0008210	170.2379	.0053386	.0305451	.0675653	6.503296
#2	.0014991	.0007375	171.1976	.0064567	.0302648	.0703362	6.562510

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5683767	5.908722	.0239760	-.000283	12.02996	.0102387	.0995454
Stddev	.0009021	.033076	.0002938	.000020	.02557	.0004705	.0023110
%RSD	.1587217	.5597817	1.225494	7.173400	.2125206	4.594881	2.321579
#1	.5677388	5.885333	.0237682	-.000297	12.04804	.0099060	.1011796
#2	.5690146	5.932110	.0241838	-.000269	12.01188	.0105713	.0979113

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.971667	.4316787	.0271191	.0009322	16.22265	15.01154	-.007480
Stddev	.021380	.0000522	.0015063	.0001947	.02846	.03242	.000407
%RSD	1.084345	.0120986	5.554230	20.88489	.1754144	.2159979	5.436379
#1	1.956550	.4317157	.0281842	.0010699	16.24278	14.98861	-.007193
#2	1.986785	.4316418	.0260540	.0007946	16.20253	15.03446	-.007768

Sample Name: B1560-12 Acquired: 3/15/2010 12:04:51 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: MF3FY6 Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	Ti3361	Li6707
Units	ppm	ppm
Avg	.0072666	.0111180
Stddev	.0003371	.0002700
%RSD	4.639755	2.428677
#1	.0070282	.0109271
#2	.0075050	.0113090

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	303.2093	3674.774	82448.34	15834.42	4624.796
Stddev	5.0331	5.724	6504.73	18.02	1.312
%RSD	1.659943	.1557775	7.889465	.1137730	.0283688
#1	299.6504	3670.726	87047.88	15847.16	4623.868
#2	306.7682	3678.822	77848.80	15821.68	4625.724

Sample Name: CRI Acquired: 3/15/2010 12:07:09 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: CRI Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0093936	.0260173	.0101174	.0342395	.0635466	.0019894	-.001961
Stddev	.0018921	.0005875	.0008959	.0000031	.0006374	.0058612	.000314
%RSD	20.14234	2.258092	8.854716	.0089974	1.003015	294.6258	16.00239
#1	.0107316	.0256018	.0107508	.0342416	.0630959	.0061338	-.001739
#2	.0080557	.0264327	.0094839	.0342373	.0639973	-.002155	-.002183

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0047592	.0045667	.0077533	.0100871	.0484896	.0255475	.1015971
Stddev	.0001306	.0000369	.0053761	.0000610	.0003658	.0011672	.0042622
%RSD	2.743186	.8091790	69.33977	.6045898	.7543952	4.568739	4.195241
#1	.0048515	.0045929	.0039518	.0100440	.0482309	.0247221	.104611C
#2	.0046668	.0045406	.0115548	.0101302	.0487482	.0263728	.0985832

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0151890	.0090816	.0389246	.0098393	-.041766	.0532502	.0603084
Stddev	.0003066	.0105457	.0000609	.0001556	.087638	.0002792	.0000996
%RSD	2.018312	116.1210	.1565433	1.581784	209.8317	.5243701	.1652388
#1	.0154058	.0016247	.0389676	.0097293	-.103735	.0534477	.060238C
#2	.0149723	.0165385	.0388815	.0099494	.020204	.0530528	.0603789

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0262796	.0014006	F-.000355	.0000290	-.005320	-.007247	-.000201
Stddev	.0279966	.0012115	.000614	.0003232	.000908	.003308	.000815
%RSD	106.5334	86.49412	172.7213	1114.846	17.06030	45.64308	405.1964
#1	.0064830	.0005440	-.000789	-.000200	-.005961	-.004908	-.000778
#2	.0460762	.0022572	.000079	.000258	-.004678	-.009586	.000375

Sample Name: CRI Acquired: 3/15/2010 12:07:09 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: CRI Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	Ti3361	Li6707
Units	ppm	ppm
Avg	-.000949	F-.003067
Stddev	.000004	.000622
%RSD	.3785416	20.29392
#1	-.000951	-.003507
#2	-.000946	-.002626

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	305.9699	3886.345	93354.65	15926.23	5265.984
Stddev	5.9143	23.917	225.21	185.98	24.218
%RSD	1.932954	.6154038	.2412384	1.167737	.4598902
#1	301.7879	3869.433	93195.41	15794.72	5248.860
#2	310.1519	3903.256	93513.90	16057.73	5283.109

Sample Name: ICSA Acquired: 3/15/2010 12:09:31 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: ICSA Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0042351	.0003576	.0104081	.0087344	.0011884	243.7264	.0005941
Stddev	.0019149	.0025144	.0022294	.0013115	.0025546	.8178	.0001140
%RSD	45.21365	703.1244	21.41932	15.01471	214.9691	.3355583	19.18054
#1	.0028811	.0021355	.0119845	.0096617	-.000618	244.3047	.0005135
#2	.0055892	-.001420	.0088317	.0078071	.002995	243.1481	.0006747

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0012581	.0036004	231.5446	.0427312	.0057495	.0194806	91.04716
Stddev	.0000391	.0000234	.6787	.0001786	.0004200	.0016335	.02624
%RSD	3.104798	.6508520	.2931093	.4178594	7.304963	8.385430	.0288239
#1	.0012305	.0035839	232.0245	.0426050	.0060465	.0206357	91.02861
#2	.0012857	.0036170	231.0647	.0428575	.0054525	.0183255	91.06572

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0198283	240.5729	.0209512	-.001323	.9505011	.0018834	.0349347
Stddev	.0001170	.0811	.0001565	.000183	.0797706	.0000153	.0002238
%RSD	.5902350	.0337069	.7470752	13.80511	8.392481	.8127354	.6407397
#1	.0197455	240.5156	.0210619	-.001452	1.006907	.0018942	.0347765
#2	.0199111	240.6302	.0208405	-.001194	.894095	.0018726	.0350930

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.007546	.0578034	-.041952	-.000519	.0480062	-.020316	-.001602
Stddev	.022004	.0003751	.001669	.000047	.0010065	.002097	.000204
%RSD	291.6033	.6489805	3.977811	9.084557	2.096674	10.32371	12.75686
#1	.008013	.0580687	-.040772	-.000486	.0472945	-.018833	-.001746
#2	-.023105	.0575382	-.043132	-.000552	.0487179	-.021799	-.001457

Sample Name: ICSA Acquired: 3/15/2010 12:09:31 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: ICSA Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	Ti3361	Li6707
Units	ppm	ppm
Avg	-.006742	.0034751
Stddev	.000470	.0003608
%RSD	6.976259	10.38334
#1	-.007075	.0032200
#2	-.006410	.0037303

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	292.2713	3510.052	82906.82	15449.22	4145.866
Stddev	2.6215	6.116	14.04	55.39	1.145
%RSD	.8969341	.1742430	.0169300	.3585323	.0276231
#1	290.4177	3505.727	82896.89	15410.06	4145.056
#2	294.1250	3514.377	82916.74	15488.39	4146.676

Sample Name: ICSAB Acquired: 3/15/2010 12:11:52 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: ICSAB Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1010026	.0907959	.0572331	.0555291	.6021091	240.9223	.4922540
Stddev	.0002772	.0008900	.0005683	.0006898	.0041510	3.0821	.0088991
%RSD	.2744670	.9802396	.9930234	1.242324	.6894132	1.279276	1.807827
#1	.1008065	.0901666	.0568312	.0550413	.6050443	243.1017	.4985466
#2	.1011986	.0914253	.0576349	.0560169	.5991739	238.7430	.4859614

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4650908	.9368465	230.1948	.5083721	.4728626	.5087145	90.24230
Stddev	.0051839	.0001299	3.6968	.0001167	.0001293	.0055411	1.22086
%RSD	1.114592	.0138674	1.605932	.0229459	.0273493	1.089234	1.352865
#1	.4687564	.9367547	232.8089	.5084546	.4727711	.5126327	91.10558
#2	.4614253	.9369384	227.5808	.5082896	.4729540	.5047964	89.37903

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4748462	238.4541	.9649619	.1938034	.9946656	.4535993	.9749185
Stddev	.0075092	3.4039	.0010595	.0016043	.0270311	.0090138	.0156135
%RSD	1.581404	1.427472	.1097966	.8278115	2.717609	1.987166	1.601518
#1	.4801560	240.8610	.9642127	.1926690	1.013780	.4599730	.9859590
#2	.4695363	236.0472	.9657110	.1949379	.975552	.4472256	.9638781

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.112113	.0375348	-.041545	-.000867	.0521985	-.014368	-.003745
Stddev	.008180	.0019156	.000556	.000518	.0032676	.002825	.000641
%RSD	7.296335	5.103432	1.338801	59.69698	6.259958	19.66151	17.12045
#1	-.117897	.0388893	-.041938	-.001234	.0498880	-.012371	-.003292
#2	-.106329	.0361803	-.041151	-.000501	.0545091	-.016366	-.004198

Sample Name: ICSAB Acquired: 3/15/2010 12:11:52 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: ICSAB Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	Ti3361	Li6707
Units	ppm	ppm
Avg	-.006362	.0020131
Stddev	.000046	.0006770
%RSD	.7298155	33.63207
#1	-.006394	.0015343
#2	-.006329	.0024918

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	291.6584	3532.784	84113.25	15489.84	4183.748
Stddev	5.4295	4.965	204.26	282.70	2.846
%RSD	1.861603	.1405350	.2428382	1.825094	.0680231
#1	287.8191	3529.273	83968.82	15289.93	4185.760
#2	295.4976	3536.295	84257.68	15689.74	4181.736

Sample Name: CCV Acquired: 3/15/2010 12:14:09 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: CCV Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.959933	4.839464	4.606659	4.933648	4.984138	9.575544	9.626655
Stddev	.006362	.013475	.013632	.006433	.009241	.007517	.031872
%RSD	.1282588	.2784489	.2959220	.1303843	.1854002	.0785059	.3310764
#1	4.955435	4.829935	4.597020	4.929100	4.977604	9.580860	9.649192
#2	4.964431	4.848992	4.616298	4.938197	4.990672	9.570229	9.604118

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2291647	2.314059	23.15323	.9812997	2.371881	1.219267	4.715419
Stddev	.0010891	.002984	.06724	.0005194	.005953	.002953	.025408
%RSD	.4752285	.1289359	.2904139	.0529320	.2509948	.2421823	.5388242
#1	.2283946	2.311950	23.10568	.9816670	2.367672	1.221355	4.697453
#2	.2299348	2.316169	23.20077	.9809324	2.376091	1.217179	4.733385

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.324262	22.94820	2.346280	1.140640	24.11483	2.403415	2.315792
Stddev	.011455	.09324	.004717	.003517	.01037	.005360	.022058
%RSD	.4928309	.4062868	.2010490	.3082986	.0429843	.2230055	.9525122
#1	2.316162	22.88227	2.342945	1.143126	24.12216	2.399626	2.300195
#2	2.332362	23.01413	2.349616	1.138153	24.10751	2.407205	2.331390

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	23.95973	4.815143	4.642441	5.008533	4.547589	4.642354	4.677908
Stddev	.12875	.016732	.007147	.017311	.014224	.020364	.018087
%RSD	.5373476	.3474851	.1539513	.3456344	.3127819	.4386507	.3866540
#1	23.86869	4.803312	4.637387	4.996292	4.537531	4.627954	4.665118
#2	24.05077	4.826974	4.647495	5.020774	4.557647	4.656753	4.690697

Sample Name: CCV Acquired: 3/15/2010 12:14:09 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: CCV Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	Ti3361	Li6707
Units	ppm	ppm
Avg	4.775999	4.907491
Stddev	.006199	.020525
%RSD	.1298020	.4182399
#1	4.771615	4.922005
#2	4.780382	4.892978

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	304.3847	3771.843	89497.92	16026.73	4753.966
Stddev	1.1653	4.295	353.96	19.94	3.880
%RSD	.3828470	.1138582	.3954980	.1244132	.0816154
#1	303.5607	3774.880	89247.63	16012.63	4756.709
#2	305.2087	3768.807	89748.21	16040.83	4751.222

Sample Name: CCB Acquired: 3/15/2010 12:16:21 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: CCB Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0027407	.0058249	.0015736	.0004550	-.000025	-.001542	.0015143
Stddev	.0014052	.0015771	.0006409	.0025727	.000078	.001063	.0002918
%RSD	51.27062	27.07539	40.72759	565.4405	319.4833	68.92260	19.27017
#1	.0017471	.0069401	.0020268	-.001364	-.000080	-.000790	.0017206
#2	.0037343	.0047097	.0011205	.002274	.000031	-.002293	.0013080

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000901	.0008701	.0191685	.0002098	.0009146	.0008645	.0003115
Stddev	.0000372	.0000045	.0045200	.0004180	.0000107	.0000813	.0016097
%RSD	41.26597	.5182676	23.58035	199.2663	1.168926	9.408247	516.8096
#1	.0000638	.0008669	.0159724	-.000086	.0009222	.0008069	.0014497
#2	.0001164	.0008733	.0223647	.000505	.0009070	.0009220	-.000827

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0010926	.0300820	.0007398	.0003840	-.036216	.0010953	.0014616
Stddev	.0003042	.0121450	.0000250	.0001133	.132300	.0001393	.0001718
%RSD	27.84475	40.37294	3.385228	29.50193	365.3069	12.71604	11.75431
#1	.0013078	.0214942	.0007575	.0003039	-.129767	.0011937	.0013401
#2	.0008775	.0386699	.0007221	.0004641	.057334	.0009968	.0015831

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0536107	.0020206	.0107299	.0042588	-.002859	-.002534	.0007384
Stddev	.0024516	.0005649	.0004260	.0004363	.000477	.002796	.0006743
%RSD	4.572894	27.95832	3.969704	10.24343	16.67546	110.3212	91.31693
#1	.0553442	.0016212	.0104287	.0045673	-.003196	-.000557	.0012152
#2	.0518771	.0024201	.0110311	.0039504	-.002521	-.004511	.0002616

Sample Name: CCB Acquired: 3/15/2010 12:16:21 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: CCB Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	Ti3361	Li6707
Units	ppm	ppm
Avg	.0010004	-.000133
Stddev	.0001920	.000294
%RSD	19.18850	220.8360
#1	.0008647	-.000341
#2	.0011362	.000075

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	305.5833	3918.080	93577.02	15909.24	5338.102
Stddev	.6149	28.736	961.60	138.05	41.639
%RSD	.2012274	.7334111	1.027598	.8677293	.7800392
#1	305.1485	3938.400	92897.07	15811.62	5367.545
#2	306.0181	3897.761	94256.97	16006.85	5308.658

Sample Name: B1560-13 Acquired: 3/15/2010 12:18:45 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: MF3FY7 Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003917	.0040279	.0012467	-.002084	-.002459	.0421123	.0619966
Stddev	.0017581	.0001951	.0011378	.000810	.000103	.0046652	.0001558
%RSD	448.8270	4.842734	91.26461	38.86055	4.179543	11.07805	.2513649
#1	.0016349	.0038900	.0004422	-.001511	-.002532	.0388135	.0618864
#2	-.000851	.0041658	.0020512	-.002657	-.002386	.0454111	.0621068

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000017	.0000493	98.60769	.0003799	.0000084	.0023561	.1487361
Stddev	.0001564	.0000266	.34444	.0001163	.0000370	.0003556	.0067804
%RSD	9216.816	53.90195	.3493017	30.62235	441.1841	15.09056	4.558696
#1	.0001123	.0000681	98.85125	.0004621	.0000345	.0021047	.1535306
#2	-.000109	.0000305	98.36414	.0002976	-.000018	.0026075	.1439416

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0068636	3.258759	.0014876	-.000226	6.238493	.0002276	.0084106
Stddev	.0002626	.007433	.0004167	.000175	.050830	.0000191	.0003889
%RSD	3.825850	.2280822	28.01421	77.39875	.8147819	8.403227	4.624576
#1	.0066780	3.253504	.0011929	-.000350	6.202551	.0002141	.0081356
#2	.0070493	3.264015	.0017822	-.000103	6.274435	.0002411	.0086856

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5343230	.0089675	.0276141	.0006628	13.22117	6.058750	-.010219
Stddev	.0435142	.0020498	.0002346	.0000527	.00205	.005323	.000582
%RSD	8.143797	22.85794	.8494088	7.952162	.0154745	.0878547	5.697410
#1	.5650921	.0075180	.0277800	.0006256	13.22261	6.062513	-.009807
#2	.5035538	.0104169	.0274483	.0007001	13.21972	6.054986	-.010631

Sample Name: B1560-13 Acquired: 3/15/2010 12:18:45 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: MF3FY7 Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	Ti3361	Li6707
Units	ppm	ppm
Avg	-.001947	.0029927
Stddev	.000165	.0004786
%RSD	8.491905	15.99288
#1	-.002064	.0026542
#2	-.001830	.0033311

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	308.9384	3721.551	89739.47	15888.34	4884.372
Stddev	3.4837	2.631	1038.09	39.36	7.515
%RSD	1.127650	.0707054	1.156785	.2477490	.1538681
#1	311.4018	3719.690	90473.51	15860.51	4889.687
#2	306.4750	3723.411	89005.43	15916.18	4879.058

Sample Name: B1560-14 Acquired: 3/15/2010 12:21:07 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: MF3FZ2 Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0026512	.0021608	.0008677	-.006001	-.002797	-.005858	.0803664
Stddev	.0005789	.0001355	.0014627	.000791	.000206	.003767	.0007262
%RSD	21.83661	6.271037	168.5736	13.17509	7.353280	64.30534	.9035604
#1	.0030606	.0020650	.0019019	-.006560	-.002943	-.003194	.0798529
#2	.0022419	.0022566	-.000167	-.005442	-.002652	-.008521	.0808799

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000099	.0000416	61.87317	.0092200	-.000438	-.000400	.3098061
Stddev	.000160	.0000096	.24806	.0000068	.000077	.001162	.0030869
%RSD	160.7490	23.10705	.4009244	.0734466	17.52647	290.3982	.9964074
#1	-.000213	.0000348	61.69777	.0092152	-.000492	-.001222	.3119888
#2	.000014	.0000484	62.04858	.0092248	-.000384	.000422	.3076233

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0169602	14.93176	.0040544	.0002661	33.77603	.0004173	.0041123
Stddev	.0000406	.09729	.0002971	.0000965	.02312	.0002953	.0008981
%RSD	.2395826	.6515603	7.328665	36.25927	.0684382	70.77171	21.83964
#1	.0169889	14.86297	.0042645	.0003344	33.75968	.0006262	.0047474
#2	.0169315	15.00056	.0038443	.0001979	33.79237	.0002085	.0034773

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.601746	.0132274	.0780995	.0010290	12.49012	7.727781	-.009796
Stddev	.020655	.0000107	.0000815	.0001145	.00455	.027425	.000120
%RSD	1.289554	.0811494	.1043574	11.12615	.0364427	.3548836	1.224723
#1	1.587141	.0132350	.0781571	.0011099	12.49334	7.708388	-.009711
#2	1.616352	.0132198	.0780419	.0009480	12.48690	7.747173	-.009880

Sample Name: B1560-14 Acquired: 3/15/2010 12:21:07 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: MF3FZ2 Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	Ti3361	Li6707
Units	ppm	ppm
Avg	-.002142	.0126626
Stddev	.001247	.0007186
%RSD	58.21699	5.674780
#1	-.003024	.0121545
#2	-.001260	.0131707

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	310.7457	3728.278	89178.55	16146.36	4821.837
Stddev	2.7100	2.744	34.62	72.27	3.502
%RSD	.8721017	.0735927	.0388250	.4475653	.0726246
#1	312.6620	3730.218	89154.06	16197.46	4824.313
#2	308.8294	3726.337	89203.03	16095.26	4819.360

Sample Name: B1560-15 Acquired: 3/15/2010 12:23:29 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: MF3FZ3 Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0032261	.0022015	.0014411	-.001886	-.003699	-.004680	.0804757
Stddev	.0003411	.0021916	.0003673	.000356	.000155	.001099	.0019030
%RSD	10.57247	99.55126	25.48451	18.87644	4.194671	23.48350	2.364626
#1	.0034672	.0037513	.0011814	-.001634	-.003809	-.003903	.0818212
#2	.0029849	.0006518	.0017008	-.002138	-.003589	-.005457	.0791301

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000097	.0000736	61.70073	.0001652	-.000518	.0008987	.3060427
Stddev	.000039	.0000460	1.38385	.0001103	.000007	.0000175	.0036383
%RSD	40.41824	62.52584	2.242840	66.75971	1.366395	1.947210	1.188807
#1	-.000069	.0001062	62.67926	.0000872	-.000523	.0009111	.3086153
#2	-.000125	.0000411	60.72220	.0002432	-.000513	.0008864	.3034700

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0164818	14.90334	.0010123	.0000415	33.52145	.0000222	.0138973
Stddev	.0004804	.31741	.0000608	.0003090	.82710	.0000552	.0001839
%RSD	2.914464	2.129763	6.008278	744.2338	2.467388	248.0880	1.323265
#1	.0168214	15.12778	.0009692	.0002600	34.10630	.0000612	.0137672
#2	.0161421	14.67890	.0010553	-.000177	32.93660	-.000017	.0140273

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.597915	.0153771	.0767302	.0011851	12.72833	7.729736	-.009430
Stddev	.055268	.0016390	.0043377	.0000327	.04190	.208276	.000423
%RSD	3.458737	10.65847	5.653180	2.755220	.3291769	2.694480	4.483046
#1	1.636995	.0142182	.0797975	.0012082	12.69870	7.877009	-.009131
#2	1.558835	.0165360	.0736630	.0011620	12.75796	7.582462	-.009729

Sample Name: B1560-15 Acquired: 3/15/2010 12:23:29 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: MF3FZ3 Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	Ti3361	Li6707
Units	ppm	ppm
Avg	-.002458	.0125833
Stddev	.000566	.0003094
%RSD	23.01757	2.458533
#1	-.002858	.0128020
#2	-.002058	.0123645

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	309.5811	3668.371	90754.05	16162.30	4749.828
Stddev	5.6773	8.135	4101.94	300.52	14.053
%RSD	1.833879	.2217598	4.519846	1.859369	.2958547
#1	305.5666	3674.124	93654.56	15949.81	4759.764
#2	313.5956	3662.619	87853.54	16374.80	4739.891

Sample Name: B1560-16 Acquired: 3/15/2010 12:25:51 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: MF3FZ5 Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0028345	.0021256	.0019993	-.004061	-.003232	-.014288	.1308603
Stddev	.0017497	.0009281	.0012100	.000933	.000249	.001007	.0017771
%RSD	61.72787	43.66316	60.51889	22.97878	7.688861	7.045165	1.358013
#1	.0015973	.0014693	.0028549	-.004721	-.003408	-.015000	.1321169
#2	.0040718	.0027818	.0011438	-.003401	-.003056	-.013577	.1296037

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000150	.0000264	124.6367	.0002539	-.000826	.0047611	.0241040
Stddev	.000033	.0000245	2.0095	.0002059	.000016	.0008330	.0009299
%RSD	21.99704	92.78611	1.612279	81.10307	1.929636	17.49543	3.858023
#1	-.000174	.0000438	126.0577	.0001083	-.000838	.0053502	.0247616
#2	-.000127	.0000091	123.2158	.0003995	-.000815	.0041721	.0234465

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0016883	3.910356	.0009102	-.000274	6.925469	.0001700	.0095231
Stddev	.0001153	.052226	.0001725	.000205	.112291	.0001397	.0004283
%RSD	6.830270	1.335573	18.95662	74.78019	1.621414	82.18202	4.497826
#1	.0016068	3.947285	.0010322	-.000419	7.004871	.0000712	.0092203
#2	.0017699	3.873427	.0007882	-.000129	6.846068	.0002688	.0098260

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2151935	.0071921	.0269266	.0005102	15.05621	6.294180	-.010462
Stddev	.0485575	.0006768	.0018954	.0002652	.07268	.108967	.000360
%RSD	22.56458	9.409993	7.039162	51.99133	.4827444	1.731235	3.444760
#1	.1808582	.0076706	.0255864	.0006977	15.00481	6.371232	-.010717
#2	.2495289	.0067135	.0282669	.0003226	15.10760	6.217129	-.010207

Sample Name: B1560-16 Acquired: 3/15/2010 12:25:51 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: MF3FZ5 Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	Ti3361	Li6707
Units	ppm	ppm
Avg	-.003985	.0029671
Stddev	.000539	.0003263
%RSD	13.51573	10.99653
#1	-.004366	.0027364
#2	-.003605	.0031978

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	304.4078	3622.970	85754.57	15949.74	4728.815
Stddev	2.3224	2.752	2211.78	244.77	16.464
%RSD	.7629368	.0759697	2.579202	1.534648	.3481629
#1	302.7656	3624.917	87318.54	15776.66	4740.457
#2	306.0500	3621.024	84190.60	16122.82	4717.173

Sample Name: B1560-17 Acquired: 3/15/2010 12:28:13 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: MF3FZ6 Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005727	.0011883	.0010834	-.002915	-.004050	-.007074	.1073856
Stddev	.0000980	.0003331	.0005994	.004151	.000365	.002302	.0009076
%RSD	17.11177	28.03336	55.32468	142.3977	9.004673	32.53682	.8451745
#1	.0006420	.0014238	.0006596	.000020	-.003792	-.008702	.1080274
#2	.0005034	.0009527	.0015072	-.005851	-.004308	-.005447	.1067438

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000018	.0000626	92.81148	.0001539	-.000758	.0020691	.0265677
Stddev	.000010	.0000738	.87866	.0000548	.000211	.0016886	.0019810
%RSD	58.00938	117.8501	.9467116	35.63530	27.86278	81.61191	7.456441
#1	-.000011	.0000104	93.43279	.0001151	-.000908	.0032631	.0279685
#2	-.000025	.0001148	92.19018	.0001926	-.000609	.0008750	.0251669

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0012671	5.864468	.0007605	-.000030	6.644974	.0002296	.0319488
Stddev	.0001366	.067311	.0000903	.000225	.006287	.0002008	.0008950
%RSD	10.77691	1.147780	11.87533	758.6712	.0946204	87.48326	2.801506
#1	.0013636	5.912064	.0006967	-.000188	6.649420	.0000876	.0325817
#2	.0011705	5.816872	.0008244	.000129	6.640528	.0003716	.0313159

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3953096	.0083183	.0283261	.0007438	8.279451	7.042758	-.009261
Stddev	.0047415	.0003413	.0025318	.0002550	.034667	.061841	.000432
%RSD	1.199429	4.102780	8.937902	34.28335	.4187081	.8780735	4.664198
#1	.3986623	.0085596	.0265359	.0009241	8.254938	7.086486	-.009567
#2	.3919569	.0080769	.0301163	.0005635	8.303964	6.999030	-.008956

Sample Name: B1560-17 Acquired: 3/15/2010 12:28:13 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: MF3FZ6 Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	Ti3361	Li6707
Units	ppm	ppm
Avg	-.002848	.0022969
Stddev	.000006	.0002383
%RSD	.1943617	10.37386
#1	-.002844	.0024654
#2	-.002852	.0021284

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	302.7230	3648.818	86762.08	15733.06	4792.038
Stddev	4.7051	3.618	188.15	208.44	6.732
%RSD	1.554263	.0991455	.2168558	1.324852	.1404792
#1	299.3960	3651.376	86895.12	15585.67	4796.798
#2	306.0500	3646.260	86629.04	15880.44	4787.278

Sample Name: PB48236BL Acquired: 3/15/2010 12:30:35 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: PBW Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0009029	.0013046	-.000176	-.001872	-.000409	-.010134	-.001961
Stddev	.0014021	.0014421	.001194	.000455	.001283	.000503	.000056
%RSD	155.2938	110.5370	679.6527	24.29517	313.6872	4.959076	2.830222
#1	-.000089	.0023243	.000669	-.001550	-.001316	-.009778	-.001922
#2	.001894	.0002849	-.001020	-.002193	.000498	-.010489	-.002000

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000011	.0000768	.0046773	-.000126	.0001848	-.000394	.0003280
Stddev	.000014	.0000080	.0005759	.000233	.0000722	.000600	.0011508
%RSD	130.5127	10.34499	12.31266	185.4457	39.04400	152.3104	350.9053
#1	-.000001	.0000712	.0042701	.000039	.0002358	-.000818	-.000486
#2	-.000021	.0000825	.0050846	-.000291	.0001338	.000030	.001142

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000053	.0291688	.0000678	-.000246	.0861674	.0000984	.0019839
Stddev	.000068	.0125011	.0000366	.000065	.1456545	.0001082	.0013905
%RSD	127.2809	42.85782	53.94423	26.54680	169.0367	109.9380	70.08819
#1	-.000005	.0203292	.0000419	-.000292	-.016826	.0000219	.0010007
#2	-.000102	.0380084	.0000937	-.000199	.189161	.0001749	.0029672

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0316618	.0026319	.0001003	.0003715	-.006426	-.008208	.0000167
Stddev	.0457939	.0013587	.0000216	.0001471	.001492	.003018	.0007431
%RSD	144.6346	51.62518	21.55531	39.60448	23.22204	36.76429	4449.120
#1	-.000719	.0035927	.0001156	.0002675	-.005371	-.010342	.0005422
#2	.064043	.0016711	.0000850	.0004755	-.007481	-.006074	-.000509

Sample Name: PB48236BL Acquired: 3/15/2010 12:30:35 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: PBW Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	Ti3361	Li6707
Units	ppm	ppm
Avg	-.001380	-.003411
Stddev	.000456	.000006
%RSD	33.05358	.1638745
#1	-.001703	-.003408
#2	-.001058	-.003415

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	302.1387	3783.549	91717.27	15709.55	5173.797
Stddev	2.8974	4.142	379.05	19.74	6.162
%RSD	.9589644	.1094668	.4132850	.1256518	.1190939
#1	300.0899	3780.620	91985.31	15723.50	5169.440
#2	304.1874	3786.477	91449.24	15695.59	5178.154

Sample Name: PB48236BS Acquired: 3/15/2010 12:32:57 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: LCSW Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9423316	.9309664	.8456782	.9523338	.9396395	2.243501	.4499120
Stddev	.0049385	.0017409	.0012284	.0014333	.0015562	.004949	.0018055
%RSD	.5240685	.1869982	.1452558	.1505063	.1656170	.2206120	.4012955
#1	.9388396	.9297354	.8465468	.9513203	.9385391	2.240001	.4486353
#2	.9458236	.9321974	.8448096	.9533473	.9407399	2.247001	.4511886

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4370056	.4224492	9.177433	.4636465	.4293758	.4568691	4.470143
Stddev	.0013072	.0003252	.014841	.0011379	.0000642	.0007852	.020299
%RSD	.2991355	.0769897	.1617105	.2454242	.0149414	.1718732	.4540906
#1	.4360812	.4222192	9.166939	.4644512	.4293304	.4563139	4.455790
#2	.4379299	.4226792	9.187927	.4628419	.4294211	.4574243	4.484496

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4317834	5.250093	.4316208	.4373114	9.463430	.4616589	.8630658
Stddev	.0008557	.011992	.0003593	.0006677	.039355	.0005396	.0119928
%RSD	.1981814	.2284082	.0832442	.1526874	.4158677	.1168865	1.389563
#1	.4323885	5.241614	.4318748	.4368393	9.491258	.4612774	.8545856
#2	.4311783	5.258573	.4313667	.4377835	9.435601	.4620405	.8715460

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.169066	-.013754	-.004643	-.000236	.0081759	-.025337	-.009569
Stddev	.040242	.000188	.003203	.000228	.0020399	.002847	.000013
%RSD	.4926132	1.366613	68.97773	96.76460	24.95030	11.23732	.1370773
#1	8.140610	-.013887	-.006908	-.000074	.0096183	-.027350	-.009560
#2	8.197521	-.013621	-.002379	-.000397	.0067335	-.023323	-.009578

Sample Name: PB48236BS Acquired: 3/15/2010 12:32:57 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: LCSW Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	Ti3361	Li6707
Units	ppm	ppm
Avg	-.000153	-.006582
Stddev	.000876	.000460
%RSD	574.2355	6.991395
#1	-.000772	-.006907
#2	.000467	-.006256

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	320.1605	3879.492	92850.60	16210.46	5170.001
Stddev	4.2296	17.736	180.50	60.49	23.360
%RSD	1.321081	.4571833	.1944000	.3731713	.4518282
#1	323.1513	3892.033	92722.97	16253.24	5186.518
#2	317.1697	3866.950	92978.24	16167.69	5153.483

Sample Name: B1560-18 Acquired: 3/15/2010 12:35:12 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: MF3FY0 Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003399	.0007842	.0013499	-.000994	-.003757	-.008802	.1217394
Stddev	.0013675	.0004976	.0006910	.001492	.000426	.004008	.0003069
%RSD	402.2784	63.44764	51.19026	150.1376	11.32944	45.53931	.2520750
#1	-.000627	.0004324	.0018386	.000061	-.003456	-.011636	.1215224
#2	.001307	.0011361	.0008613	-.002048	-.004058	-.005967	.1219564

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000661	.0003284	142.3120	.0002107	-.000774	.0081467	.0043237
Stddev	.0000674	.0000762	.7714	.0001108	.000132	.0000721	.0006799
%RSD	101.8565	23.19337	.5420747	52.57176	17.10947	.8845515	15.72502
#1	.0000185	.0003822	142.8575	.0001324	-.000681	.0080957	.0048045
#2	.0001138	.0002745	141.7666	.0002891	-.000868	.0081976	.0038429

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005153	4.607983	.0041976	-.000246	26.19453	.0004193	.0884072
Stddev	.0002706	.022013	.0000068	.000166	.06403	.0002848	.0006373
%RSD	52.51119	.4777166	.1622613	67.64252	.2444550	67.91942	.7208399
#1	.0003239	4.623549	.0041928	-.000363	26.14926	.0002179	.0879566
#2	.0007066	4.592417	.0042024	-.000128	26.23981	.0006207	.0888578

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2263171	.0054129	.0344538	.0008450	13.38511	6.216896	-.009429
Stddev	.0396001	.0001124	.0001187	.0002957	.20872	.035341	.000582
%RSD	17.49762	2.076906	.3445398	34.98733	1.559314	.5684604	6.174577
#1	.1983156	.0054924	.0343699	.0006360	13.23752	6.241886	-.009841
#2	.2543186	.0053335	.0345377	.0010541	13.53269	6.191907	-.009017

Sample Name: B1560-18 Acquired: 3/15/2010 12:35:12 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: MF3FY0 Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	Ti3361	Li6707
Units	ppm	ppm
Avg	-.005234	.0032242
Stddev	.000106	.0003501
%RSD	2.027912	10.85820
#1	-.005159	.0034718
#2	-.005310	.0029767

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	314.4045	3650.410	87812.79	16161.95	4826.023
Stddev	1.4078	49.526	1115.05	150.94	64.997
%RSD	.4477726	1.356713	1.269809	.9339092	1.346810
#1	315.4000	3685.430	88601.26	16055.22	4871.983
#2	313.4091	3615.390	87024.33	16268.68	4780.063

Sample Name: B1560-19 Acquired: 3/15/2010 12:37:32 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: MF3FY8 Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001058	.0016605	.0004224	-.001009	-.004925	-.002610	.1024721
Stddev	.000249	.0017607	.0000647	.001178	.000160	.010930	.0003598
%RSD	23.50086	106.0324	15.32744	116.7960	3.241627	418.7562	.3511578
#1	-.001234	.0004155	.0003766	-.000176	-.005038	-.010338	.1027266
#2	-.000882	.0029055	.0004682	-.001842	-.004812	.005118	.1022177

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001582	-.000025	162.9446	-.000157	-.000582	.0127438	.0094975
Stddev	.0001893	.000014	.0578	.000318	.000124	.0009191	.0004457
%RSD	119.6697	57.99412	.0354648	202.3004	21.24102	7.211712	4.692716
#1	.0002921	-.000014	162.9854	.000068	-.000670	.0133937	.0091823
#2	.0000243	-.000035	162.9037	-.000382	-.000495	.0120940	.0098126

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001048	3.405882	.0013868	-.000130	28.93896	.0002378	.0062755
Stddev	.0000222	.038114	.0000192	.000163	.16990	.0000583	.0000764
%RSD	21.17319	1.119072	1.382863	125.5753	.5871014	24.51107	1.218042
#1	.0001204	3.378932	.0014004	-.000015	29.05910	.0002790	.0062215
#2	.0000891	3.432833	.0013732	-.000245	28.81882	.0001965	.0063296

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0227259	.0101611	.0505684	.0007300	24.56673	5.707937	-.009384
Stddev	.0094294	.0006404	.0010746	.0001421	.87061	.008883	.000539
%RSD	41.49202	6.302011	2.124941	19.46706	3.543841	.1556231	5.745316
#1	.0160583	.0097083	.0498086	.0008305	25.18234	5.701656	-.009003
#2	.0293935	.0106139	.0513282	.0006295	23.95112	5.714218	-.009765

Sample Name: B1560-19 Acquired: 3/15/2010 12:37:32 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: MF3FY8 Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	Ti3361	Li6707
Units	ppm	ppm
Avg	-.005015	.0069636
Stddev	.000396	.0008793
%RSD	7.903653	12.62729
#1	-.005295	.0063418
#2	-.004735	.0075853

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	301.0225	3597.204	84942.32	15644.54	4733.939
Stddev	2.7391	115.302	1020.93	61.41	145.285
%RSD	.9099184	3.205326	1.201914	.3925397	3.069002
#1	302.9594	3515.673	85664.23	15687.97	4631.207
#2	299.0857	3678.735	84220.41	15601.12	4836.671

Sample Name: B1560-20 Acquired: 3/15/2010 12:39:53 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: MF3FZ8 Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000410	.0012423	.0016903	.0012850	-.004789	.0182407	.1087888
Stddev	.001776	.0000195	.0020684	.0002902	.000091	.0053557	.0005100
%RSD	432.6227	1.567213	122.3656	22.58769	1.894862	29.36134	.4687796
#1	.000845	.0012285	.0031529	.0010797	-.004853	.0144536	.1084282
#2	-.001666	.0012560	.0002278	.0014902	-.004725	.0220277	.1091494

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000173	.0000452	114.9862	-.000043	-.000361	.0048696	.0502455
Stddev	.0002529	.0000169	.1797	.000456	.000138	.0013456	.0006606
%RSD	1460.915	37.48789	.1562930	1050.531	38.36605	27.63187	1.314806
#1	-.000162	.0000571	115.1133	.000279	-.000459	.0058211	.0497784
#2	.000196	.0000332	114.8592	-.000366	-.000263	.0039182	.0507127

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0095292	3.371002	.0023602	.0003154	7.344416	.0002200	.0146339
Stddev	.0000746	.033585	.0002113	.0002134	.127700	.0002575	.0001962
%RSD	.7827354	.9962867	8.954422	67.66290	1.738741	117.0091	1.340991
#1	.0095819	3.394750	.0022108	.0001645	7.434714	.0004021	.0147726
#2	.0094764	3.347254	.0025097	.0004663	7.254119	.0000380	.0144951

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3383058	.0161027	.0293735	.0010876	16.53342	7.151300	-.009304
Stddev	.0164627	.0000828	.0025000	.0000322	.11505	.018751	.000420
%RSD	4.866226	.5141536	8.511131	2.959048	.6958432	.2621998	4.517021
#1	.3499467	.0160442	.0276057	.0010648	16.61477	7.164559	-.009007
#2	.3266649	.0161613	.0311413	.0011103	16.45207	7.138042	-.009602

Sample Name: B1560-20 Acquired: 3/15/2010 12:39:53 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: MF3FZ8 Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	Ti3361	Li6707
Units	ppm	ppm
Avg	-.003864	.0043525
Stddev	.000049	.0009322
%RSD	1.270522	21.41677
#1	-.003829	.0036934
#2	-.003899	.0050116

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	301.0238	3565.474	85759.39	15487.38	4782.914
Stddev	2.5118	14.450	33.85	10.04	29.875
%RSD	.8344354	.4052653	.0394755	.0648043	.6246153
#1	299.2477	3555.257	85735.45	15480.29	4761.789
#2	302.8000	3575.691	85783.33	15494.48	4804.039

Sample Name: CCV Acquired: 3/15/2010 12:42:13 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: CCV Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.135297	4.968626	4.671484	5.091409	5.152278	9.789967	9.785504
Stddev	.044362	.027470	.023289	.034154	.040261	.021754	.000293
%RSD	.8638665	.5528723	.4985331	.6708188	.7814273	.2222079	.0029916
#1	5.166666	4.988050	4.687952	5.115560	5.180747	9.774584	9.785297
#2	5.103928	4.949201	4.655016	5.067259	5.123809	9.805349	9.785711

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2329697	2.369738	23.41200	1.004521	2.439592	1.256540	4.797025
Stddev	.0010791	.011336	.01104	.006869	.017562	.001724	.013609
%RSD	.4631841	.4783747	.0471359	.6838426	.7198779	.1372167	.2836974
#1	.2322066	2.377754	23.40420	1.009378	2.452010	1.255321	4.787402
#2	.2337327	2.361722	23.41981	.999663	2.427174	1.257759	4.806648

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.351223	23.24383	2.403093	1.153194	24.53669	2.479647	2.354693
Stddev	.001958	.12425	.013234	.003336	.08166	.017058	.018756
%RSD	.0832918	.5345352	.5506982	.2893172	.3328271	.6879016	.7965481
#1	2.349839	23.15597	2.412451	1.155554	24.59444	2.491709	2.367955
#2	2.352608	23.33168	2.393736	1.150835	24.47895	2.467586	2.341430

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.41706	4.929050	4.709550	5.149454	4.648848	4.705526	4.787298
Stddev	.10779	.052980	.014198	.041310	.037679	.021019	.027672
%RSD	.4414545	1.074855	.3014681	.8022242	.8104982	.4466906	.5780265
#1	24.34084	4.966513	4.699510	5.178665	4.675491	4.690663	4.806864
#2	24.49328	4.891588	4.719589	5.120243	4.622205	4.720389	4.767731

Sample Name: CCV Acquired: 3/15/2010 12:42:13 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: CCV Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	Ti3361	Li6707
Units	ppm	ppm
Avg	4.870179	5.027070
Stddev	.007136	.008230
%RSD	.1465303	.1637233
#1	4.865133	5.021250
#2	4.875225	5.032890

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	290.7337	3608.707	85592.51	15299.26	4578.453
Stddev	3.9582	41.074	535.37	111.64	41.830
%RSD	1.361457	1.138191	.6254862	.7297271	.9136278
#1	287.9348	3579.663	85213.95	15220.32	4548.875
#2	293.5326	3637.751	85971.08	15378.21	4608.032

Sample Name: CCB Acquired: 3/15/2010 12:44:26 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: CCB Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000828	.0057968	.0009719	-.000621	.0001057	-.001038	.0018105
Stddev	.000724	.0012305	.0006937	.000358	.0009747	.002430	.0005345
%RSD	87.46375	21.22809	71.37118	57.69939	922.5033	234.1130	29.52151
#1	-.001341	.0066669	.0004814	-.000368	-.000584	.000680	.0021885
#2	-.000316	.0049266	.0014624	-.000875	.000795	-.002756	.0014326

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002599	.0008448	.0366762	.0003153	.0008967	-.000769	.0024098
Stddev	.0001768	.0000384	.0083091	.0001242	.0000942	.000836	.0000558
%RSD	68.05490	4.541575	22.65524	39.39201	10.50977	108.6239	2.313807
#1	.0001348	.0008720	.0308008	.0002275	.0009633	-.000178	.0024492
#2	.0003849	.0008177	.0425516	.0004031	.0008300	-.001360	.0023703

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0009140	.0288151	.0009271	.0004920	-.044156	.0012429	.0018960
Stddev	.0000791	.0054033	.0001444	.0000627	.008112	.0000185	.0005717
%RSD	8.655955	18.75160	15.57708	12.75202	18.37171	1.491777	30.15130
#1	.0009699	.0249944	.0008250	.0004476	-.038420	.0012298	.0014917
#2	.0008580	.0326358	.0010292	.0005364	-.049893	.0012560	.0023002

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0363107	.0023973	.0103032	.0047132	-.002737	.0036097	.0017243
Stddev	.0391112	.0004058	.0002605	.0007754	.000627	.0033932	.0008508
%RSD	107.7126	16.92546	2.528652	16.45218	22.88968	94.00080	49.34087
#1	.0086549	.0026842	.0104874	.0052615	-.003180	.0060090	.0011227
#2	.0639665	.0021104	.0101190	.0041649	-.002294	.0012104	.0023258

Sample Name: CCB Acquired: 3/15/2010 12:44:26 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: CCB Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	Ti3361	Li6707
Units	ppm	ppm
Avg	.0015999	-.000042
Stddev	.0008057	.000531
%RSD	50.35817	1257.417
#1	.0021697	.000334
#2	.0010302	-.000418

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	306.1275	3836.597	92605.24	15608.01	5184.363
Stddev	3.9271	16.872	1960.48	35.46	24.477
%RSD	1.282817	.4397605	2.117026	.2272087	.4721266
#1	308.9043	3824.667	91218.97	15633.09	5167.055
#2	303.3506	3848.528	93991.51	15582.94	5201.671

Sample Name: B1560-21 Acquired: 3/15/2010 12:46:50 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: MF3G01 Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001696	.0031971	.0016527	-.001051	-.002695	-.006164	.1242999
Stddev	.0012339	.0006559	.0000607	.001276	.000590	.009797	.0051543
%RSD	727.7431	20.51690	3.674082	121.4507	21.91070	158.9359	4.146651
#1	.0010421	.0027333	.0016957	-.001953	-.002277	.000763	.1279445
#2	-.000703	.0036609	.0016098	-.000148	-.003112	-.013092	.1206553

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001229	.0003908	149.2344	.0001728	-.000609	.0071647	.0043257
Stddev	.0000398	.0000725	6.5887	.0000893	.000127	.0004378	.0075892
%RSD	32.38109	18.54516	4.414971	51.65233	20.89950	6.110724	175.4446
#1	.0001510	.0004421	153.8933	.0001097	-.000699	.0074743	.0096920
#2	.0000947	.0003396	144.5755	.0002360	-.000519	.0068551	-.001041

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003871	4.845025	.0041966	.0001680	26.95248	.0006439	.0922813
Stddev	.0000448	.177025	.0001334	.0001583	.78046	.0000033	.0038018
%RSD	11.58214	3.653740	3.178809	94.20807	2.895677	.5118497	4.119776
#1	.0004188	4.970200	.0042909	.0002800	27.50435	.0006462	.0949696
#2	.0003554	4.719850	.0041023	.0000561	26.40062	.0006416	.0895931

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2156958	.0042757	.0407775	.0009680	13.68113	6.524971	-.009274
Stddev	.0251216	.0002091	.0015604	.0000056	.02876	.314436	.000038
%RSD	11.64676	4.889791	3.826534	.5816337	.2102339	4.818968	.4062971
#1	.2334595	.0041279	.0418809	.0009641	13.66080	6.747311	-.009300
#2	.1979322	.0044235	.0396742	.0009720	13.70147	6.302631	-.009247

Sample Name: B1560-21 Acquired: 3/15/2010 12:46:50 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: MF3G01 Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	Ti3361	Li6707
Units	ppm	ppm
Avg	-.004882	.0031985
Stddev	.000262	.0015757
%RSD	5.372265	49.26406
#1	-.004697	.0043127
#2	-.005068	.0020843

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	316.6652	3697.773	91236.26	15844.01	4843.042
Stddev	11.1811	13.789	1680.01	584.14	33.973
%RSD	3.530893	.3728995	1.841381	3.686805	.7014875
#1	308.7590	3707.523	92424.21	15430.96	4867.065
#2	324.5715	3688.023	90048.32	16257.06	4819.019

Sample Name: PB48240BL Acquired: 3/15/2010 12:49:12 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: PBW Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0013524	.0018227	.0005192	-.004054	-.002916	-.013788	-.002449
Stddev	.0015202	.0003488	.0009935	.001953	.000140	.000064	.000341
%RSD	112.4043	19.13545	191.3344	48.16171	4.785737	.4642776	13.92025
#1	.0002775	.0015761	-.000183	-.005435	-.003015	-.013743	-.002208
#2	.0024274	.0020694	.001222	-.002674	-.002817	-.013834	-.002690

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000103	-.000039	-.005415	-.000038	.0000046	-.000724	-.006425
Stddev	.000109	.000008	.004264	.000390	.0000398	.000696	.000467
%RSD	106.4979	20.47920	78.74685	1020.519	870.7382	96.12703	7.274198
#1	-.000180	-.000033	-.008430	.000238	.0000327	-.001216	-.006756
#2	-.000025	-.000044	-.002400	-.000314	-.000024	-.000232	-.006095

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000157	.0045487	.0000748	-.000144	.1348668	.0000938	.0006363
Stddev	.000124	.0160360	.0000090	.000095	.1652691	.0000621	.0013348
%RSD	78.58165	352.5441	11.97276	65.96178	122.5425	66.17673	209.7653
#1	-.000070	.0158878	.0000811	-.000212	.2517296	.0000499	.0015802
#2	-.000245	-.006791	.0000684	-.000077	.0180039	.0001377	-.000308

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.750334	.0006825	-.000201	.0000718	-.011017	-.031492	-.009202
Stddev	.019946	.0023034	.001499	.0000228	.000265	.002281	.000099
%RSD	2.658271	337.4907	747.2637	31.82452	2.402223	7.243312	1.080584
#1	-.764438	-.000946	-.001261	.0000879	-.011204	-.029879	-.009272
#2	-.736230	.002311	.000860	.0000556	-.010830	-.033105	-.009132

Sample Name: PB48240BL Acquired: 3/15/2010 12:49:12 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: PBW Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	Ti3361	Li6707
Units	ppm	ppm
Avg	-.000931	-.007842
Stddev	.000120	.000049
%RSD	12.84874	.6302851
#1	-.001016	-.007877
#2	-.000846	-.007807

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	317.9334	3869.905	93063.95	16112.76	5395.448
Stddev	1.3050	11.191	77.43	17.69	15.741
%RSD	.4104698	.2891758	.0831959	.1097612	.2917511
#1	317.0106	3877.818	93009.20	16125.27	5406.578
#2	318.8561	3861.992	93118.70	16100.26	5384.317

Sample Name: PB48240BS Acquired: 3/15/2010 12:51:36 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: LCSW Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.077369	1.072973	.9540783	1.060845	1.081068	2.582481	.5139006
Stddev	.004089	.000546	.0016731	.005597	.003797	.020887	.0070360
%RSD	.3795798	.0508870	.1753599	.5275923	.3512104	.8087943	1.369143
#1	1.080261	1.073359	.9528952	1.064803	1.083752	2.597250	.5188758
#2	1.074477	1.072587	.9552613	1.056888	1.078383	2.567712	.5089254

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4973708	.4750822	9.763461	.5230186	.4869925	.5253140	5.042141
Stddev	.0055137	.0004673	.079662	.0059410	.0003109	.0070809	.040320
%RSD	1.108569	.0983507	.8159178	1.135902	.0638452	1.347934	.7996605
#1	.5012696	.4747518	9.819790	.5188177	.4867726	.5303209	5.070651
#2	.4934721	.4754126	9.707132	.5272195	.4872123	.5203070	5.013630

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4872258	5.822630	.4880685	.4950994	10.25836	.5233078	.9664236
Stddev	.0033672	.035656	.0013862	.0072315	.03133	.0022912	.0125156
%RSD	.6910954	.6123762	.2840217	1.460610	.3054424	.4378391	1.295039
#1	.4896067	5.847842	.4870883	.4899860	10.28051	.5249280	.9752735
#2	.4848448	5.797417	.4890487	.5002128	10.23620	.5216877	.9575738

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.238370	-.021351	-.006054	-.000248	-.005922	-.030679	-.009716
Stddev	.107152	.002579	.000781	.000248	.001290	.001193	.000805
%RSD	1.159860	12.07737	12.89777	100.0754	21.79090	3.887209	8.287180
#1	9.314138	-.023175	-.006606	-.000424	-.005009	-.029835	-.010286
#2	9.162602	-.019528	-.005502	-.000073	-.006834	-.031522	-.009147

Sample Name: PB48240BS Acquired: 3/15/2010 12:51:36 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: LCSW Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	Ti3361	Li6707
Units	ppm	ppm
Avg	-.001048	-.008391
Stddev	.000006	.000351
%RSD	.5575290	4.181217
#1	-.001044	-.008639
#2	-.001052	-.008143

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	312.9980	3756.181	89979.45	15830.40	5053.610
Stddev	1.8494	13.246	982.63	84.91	7.084
%RSD	.5908527	.3526549	1.092058	.5363676	.1401798
#1	311.6902	3746.815	90674.27	15770.36	5058.620
#2	314.3056	3765.548	89284.63	15890.44	5048.601

Sample Name: B1582-01 Acquired: 3/15/2010 12:53:53 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: MY5Y09 Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000063	.0021112	.0001732	-.001939	-.000970	-.008051	-.002087
Stddev	.000508	.0009744	.0017140	.000133	.000681	.001664	.000163
%RSD	811.7072	46.15586	989.4739	6.874179	70.22684	20.67237	7.810182
#1	-.000422	.0028003	-.001039	-.002033	-.000488	-.009228	-.002203
#2	.000297	.0014222	.001385	-.001845	-.001451	-.006874	-.001972

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000983	.0000222	.0971514	-.000698	.0000347	-.000244	.0059110
Stddev	.0001266	.0000256	.0044525	.000441	.0000157	.000441	.0064137
%RSD	128.8151	115.5721	4.583051	63.13507	45.26843	180.6716	108.5052
#1	.0001878	.0000403	.1002998	-.000387	.0000236	.000068	.0104462
#2	.0000088	.0000041	.0940030	-.001010	.0000459	-.000556	.0013758

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000169	.0534957	.0000370	-.000290	.1592557	.0003150	.0020806
Stddev	.000154	.0003590	.0001112	.000146	.0900371	.0001892	.0003705
%RSD	91.42556	.6711027	300.7854	50.24767	56.53619	60.06112	17.80677
#1	-.000278	.0537495	.0001156	-.000393	.0955898	.0004487	.0018186
#2	-.000060	.0532418	-.000042	-.000187	.2229215	.0001812	.0023426

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.677201	.0042962	-.003626	-.000050	.0317329	-.019079	-.008994
Stddev	.032524	.0021457	.000195	.000092	.0035753	.000363	.000398
%RSD	4.802645	49.94289	5.370272	183.9463	11.26686	1.903581	4.426445
#1	-.700199	.0027790	-.003488	-.000115	.0292047	-.019336	-.008713
#2	-.654204	.0058134	-.003764	.000015	.0342610	-.018822	-.009276

Sample Name: B1582-01 Acquired: 3/15/2010 12:53:53 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: MY5Y09 Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	Ti3361	Li6707
Units	ppm	ppm
Avg	-.001398	-.007975
Stddev	.000017	.000105
%RSD	1.232128	1.318529
#1	-.001386	-.008050
#2	-.001411	-.007901

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	316.1249	3838.381	91367.58	16021.02	5330.355
Stddev	2.0068	5.010	241.20	123.28	12.640
%RSD	.6348171	.1305168	.2639923	.7694676	.2371335
#1	317.5440	3834.838	91538.13	16108.19	5321.417
#2	314.7059	3841.923	91197.02	15933.85	5339.293

Sample Name: B1582-02 Acquired: 3/15/2010 12:56:18 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: MY5Y10 Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0024183	.0021761	.0006202	-.003307	-.002971	-.012291	-.002244
Stddev	.0000009	.0000223	.0013248	.001020	.000036	.002063	.000225
%RSD	.0351214	1.023735	213.5958	30.85392	1.225547	16.78401	10.03017
#1	.0024189	.0021919	-.000317	-.004028	-.002997	-.010832	-.002403
#2	.0024177	.0021604	.001557	-.002585	-.002946	-.013750	-.002085

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000185	-.000036	.0348508	-.000807	.0000193	-.000888	-.000508
Stddev	.0001961	.000014	.0064061	.000459	.0000075	.000151	.001100
%RSD	1058.866	39.16362	18.38150	56.83893	38.75364	17.03680	216.6176
#1	.0001572	-.000046	.0303210	-.001132	.0000246	-.000781	.000270
#2	-.000120	-.000026	.0393806	-.000483	.0000140	-.000995	-.001286

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000142	.0182825	.0001063	-.000016	.2670050	.0001429	.0036582
Stddev	.000271	.0107201	.0002237	.000216	.1433715	.0003445	.0004055
%RSD	190.8099	58.63580	210.3802	1328.348	53.69617	241.1217	11.08389
#1	-.000334	.0107023	.0002645	.000136	.3683839	.0003865	.0039449
#2	.000050	.0258627	-.000052	-.000169	.1656261	-.000101	.0033715

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.683645	.0052833	-.002830	-.000329	.0085514	-.026772	-.008724
Stddev	.011411	.0003707	.000268	.000137	.0042166	.000597	.000351
%RSD	1.669084	7.016699	9.487909	41.76595	49.30810	2.230403	4.021901
#1	-.691714	.0055454	-.002640	-.000232	.0115330	-.027194	-.008972
#2	-.675577	.0050212	-.003020	-.000426	.0055699	-.026350	-.008475

Sample Name: B1582-02 Acquired: 3/15/2010 12:56:18 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: MY5Y10 Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	Ti3361	Li6707
Units	ppm	ppm
Avg	-.001391	-.007478
Stddev	.000658	.000189
%RSD	47.28533	2.527149
#1	-.000926	-.007344
#2	-.001855	-.007612

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	317.4195	3860.479	89515.18	16330.55	5369.351
Stddev	2.1900	38.678	5985.52	98.54	48.910
%RSD	.6899416	1.001896	6.686602	.6034213	.9109118
#1	315.8709	3833.129	85282.77	16260.87	5334.766
#2	318.9681	3887.828	93747.58	16400.23	5403.935

Sample Name: B1582-03 Acquired: 3/15/2010 12:58:41 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: MY5Y11 Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2810387	.0022949	.0023354	-.002438	-.003400	-.002886	.0490112
Stddev	.0050038	.0007064	.0006131	.001405	.000420	.003327	.0003796
%RSD	1.780465	30.78081	26.25362	57.64150	12.33927	115.2834	.7745727
#1	.2775005	.0017954	.0027689	-.003431	-.003103	-.005238	.0492796
#2	.2845770	.0027944	.0019018	-.001444	-.003697	-.000533	.0487427

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000064	-.000028	59.04184	-.000192	.0000091	.0007559	.0171439
Stddev	.000042	.000048	.33629	.000169	.0000123	.0003828	.0006273
%RSD	64.42075	169.2848	.5695834	88.02186	134.9027	50.64829	3.659033
#1	-.000094	-.000062	59.27963	-.000312	.0000178	.0004852	.0175875
#2	-.000035	.000006	58.80404	-.000073	.0000004	.0010266	.0167003

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1320069	11.37019	.0016834	-.000107	4.875200	.0002869	.0502388
Stddev	.0006173	.05931	.0000206	.000250	.010960	.0001295	.0002122
%RSD	.4676245	.5216534	1.221132	232.8312	.2248211	45.12907	.4223455
#1	.1324434	11.41213	.0016979	-.000284	4.867450	.0003785	.0500887
#2	.1315704	11.32825	.0016689	.000069	4.882950	.0001954	.0503888

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4477086	.0076498	.0109260	.0002942	25.16754	8.536606	-.009251
Stddev	.0144979	.0001997	.0002303	.0002794	.47475	.095122	.000592
%RSD	3.238235	2.610066	2.107602	94.99875	1.886368	1.114284	6.393936
#1	.4579602	.0075087	.0107632	.0004917	24.83184	8.603867	-.008833
#2	.4374571	.0077910	.0110888	.0000966	25.50325	8.469345	-.009669

Sample Name: B1582-03 Acquired: 3/15/2010 12:58:41 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: MY5Y11 Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	Ti3361	Li6707
Units	ppm	ppm
Avg	-.002635	-.002654
Stddev	.000245	.000193
%RSD	9.291544	7.256195
#1	-.002462	-.002518
#2	-.002808	-.002790

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	311.3319	3653.273	89123.33	16018.99	4920.048
Stddev	.4866	52.727	394.17	48.43	79.446
%RSD	.1563031	1.443270	.4422704	.3023355	1.614748
#1	310.9878	3690.556	88844.61	15984.74	4976.225
#2	311.6760	3615.990	89402.05	16053.23	4863.871

Sample Name: B1582-04 Acquired: 3/15/2010 13:01:01 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: MY5Y12 Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3650569	.0017629	.0003415	-.001952	-.002078	.0401758	.0501290
Stddev	.0079905	.0007697	.0014786	.001783	.000205	.0016030	.0002555
%RSD	2.188827	43.66050	433.0065	91.33108	9.884564	3.990030	.5097687
#1	.3594068	.0012187	.0013870	-.003213	-.002223	.0413093	.0499483
#2	.3707070	.0023072	-.000704	-.000691	-.001933	.0390423	.0503097

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001683	-.000037	59.30468	.0001098	.0001298	.0022858	.3313598
Stddev	.0001016	.000005	.35753	.0000323	.0000793	.0014234	.0013957
%RSD	60.35457	14.66365	.6028729	29.43025	61.06848	62.27335	.4211907
#1	.0000965	-.000033	59.05187	.0001327	.0000738	.0012793	.3323467
#2	.0002401	-.000040	59.55749	.0000870	.0001859	.0032923	.3303729

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1420299	11.36797	.0020204	-.000302	4.658765	.0002124	.0595055
Stddev	.0004829	.06370	.0002588	.000128	.070997	.0001473	.0008034
%RSD	.3399635	.5603555	12.81149	42.22697	1.523949	69.34004	1.350185
#1	.1416885	11.32293	.0018373	-.000393	4.608563	.0003165	.0589374
#2	.1423713	11.41301	.0022034	-.000212	4.708968	.0001083	.0600737

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4713186	.0152418	.0102479	.0003464	23.99680	8.608003	-.009702
Stddev	.0042471	.0007986	.0011080	.0003267	.55181	.039977	.000307
%RSD	.9011144	5.239353	10.81238	94.30196	2.299526	.4644152	3.168057
#1	.4683154	.0158065	.0094644	.0005774	23.60661	8.579735	-.009485
#2	.4743217	.0146771	.0110314	.0001154	24.38699	8.636271	-.009919

Sample Name: B1582-04 Acquired: 3/15/2010 13:01:01 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: MY5Y12 Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	Ti3361	Li6707
Units	ppm	ppm
Avg	-.002093	-.003124
Stddev	.000125	.000019
%RSD	5.984967	.6129174
#1	-.002181	-.003111
#2	-.002004	-.003138

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	309.6911	3806.761	86163.84	15921.60	5112.202
Stddev	6.3184	85.050	1857.29	121.01	103.002
%RSD	2.040226	2.234179	2.155534	.7600457	2.014829
#1	314.1588	3866.900	84850.54	16007.17	5185.035
#2	305.2233	3746.621	87477.14	15836.03	5039.368

Sample Name: CRI Acquired: 3/15/2010 13:03:21 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: CRI Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0102165	.0265823	.0095890	.0346574	.0619358	.0536489	-.002201
Stddev	.0036592	.0000520	.0005208	.0017597	.0024093	.0019669	.000459
%RSD	35.81630	.1958124	5.431227	5.077535	3.889937	3.666245	20.87171
#1	.0128039	.0265455	.0092207	.0334131	.0636394	.0522581	-.001876
#2	.0076291	.0266191	.0099573	.0359018	.0602322	.0550397	-.002526

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0049080	.0048220	.0015444	.0108516	.0499436	.0258208	.1042536
Stddev	.0003022	.0000118	.0023507	.0000168	.0002896	.0000892	.0010017
%RSD	6.157479	.2451171	152.2110	.1549037	.5797835	.3454274	.9608407
#1	.0046943	.0048303	.0032066	.0108398	.0501484	.0257577	.1049619
#2	.0051217	.0048136	-.000118	.0108635	.0497389	.0258838	.1035452

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0151227	.0145895	.0397438	.0093805	.0767418	.0549941	.0611278
Stddev	.0000794	.0067203	.0001811	.0001469	.0556712	.0001980	.000306C
%RSD	.5251598	46.06302	.4557546	1.566558	72.54351	.3599697	.5006091
#1	.0151788	.0193415	.0396157	.0094844	.0373763	.0548541	.0609114
#2	.0150665	.0098375	.0398719	.0092766	.1161072	.0551340	.0613442

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0173574	.0016951	F-.000682	.0003709	-.003530	-.002482	-.000273
Stddev	.0541585	.0006143	.000785	.0003676	.003858	.003400	.000525
%RSD	312.0201	36.23923	115.1369	99.11120	109.2804	136.9648	192.5447
#1	-.020938	.0012607	-.001237	.0006309	-.000802	-.004886	.000099
#2	.055653	.0021295	-.000127	.0001110	-.006258	-.000078	-.000644

Sample Name: CRI Acquired: 3/15/2010 13:03:21 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: CRI Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	Ti3361	Li6707
Units	ppm	ppm
Avg	-.001127	F-.003554
Stddev	.000201	.000417
%RSD	17.87529	11.72646
#1	-.001269	-.003849
#2	-.000984	-.003259

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	298.0602	3756.592	88136.61	15272.14	5094.359
Stddev	7.4056	35.679	414.19	62.33	49.334
%RSD	2.484597	.9497630	.4699428	.4081592	.9684084
#1	292.8236	3731.363	87843.74	15228.06	5059.475
#2	303.2967	3781.821	88429.49	15316.22	5129.244

Sample Name: ICSA Acquired: 3/15/2010 13:05:44 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: ICSA Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0025693	.0001597	.0117439	.0026203	-.000430	239.4062	.0005089
Stddev	.0034996	.0002367	.0015214	.0034361	.001055	.4254	.0000980
%RSD	136.2118	148.2658	12.95474	131.1362	245.1952	.1776977	19.26003
#1	.0050439	.0003270	.0106681	.0050500	-.001177	239.1054	.0005782
#2	.0000946	-.000008	.0128197	.0001906	.000316	239.7071	.0004396

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0012549	.0039691	228.8002	.0436183	.0056715	.0201690	90.08038
Stddev	.0000882	.0000908	.5167	.0009451	.0001008	.0006889	.18220
%RSD	7.027993	2.287164	.2258421	2.166669	1.777791	3.415776	.2022645
#1	.0011925	.0039049	228.4349	.0442866	.0056002	.0206562	89.95155
#2	.0013173	.0040333	229.1656	.0429501	.0057428	.0196819	90.20922

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0193840	238.7011	.0207427	-.001370	.9322650	.0020780	.0317801
Stddev	.0004883	.6098	.0000611	.000304	.0363520	.0000045	.0009078
%RSD	2.518989	.2554548	.2944326	22.20247	3.899317	.2187308	2.856554
#1	.0190387	238.2699	.0207859	-.001585	.9579697	.0020812	.0324221
#2	.0197292	239.1323	.0206995	-.001155	.9065603	.0020748	.0311382

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.091930	.0542945	-.041529	-.000246	.0492687	-.010443	-.001935
Stddev	.004582	.0000019	.001263	.000087	.0034510	.002844	.000263
%RSD	4.984192	.0033992	3.040993	35.26618	7.004407	27.23359	13.58118
#1	-.095170	.0542932	-.042422	-.000185	.0517089	-.012453	-.001749
#2	-.088690	.0542958	-.040636	-.000308	.0468285	-.008432	-.002121

Sample Name: ICSA Acquired: 3/15/2010 13:05:44 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: ICSA Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	Ti3361	Li6707
Units	ppm	ppm
Avg	-.006316	.0018436
Stddev	.000425	.0003392
%RSD	6.736178	18.39838
#1	-.006617	.0016037
#2	-.006015	.0020834

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	291.8591	3501.001	82400.43	15090.82	4159.912
Stddev	3.2749	5.789	376.85	53.28	4.819
%RSD	1.122090	.1653579	.4573349	.3530369	.1158335
#1	289.5434	3505.095	82666.90	15053.15	4156.504
#2	294.1748	3496.907	82133.96	15128.49	4163.319

Sample Name: ICSAB Acquired: 3/15/2010 13:08:05 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: ICSAB Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1024703	.0934777	.0579320	.0544322	.5991631	237.0722	.4697232
Stddev	.0003175	.0004620	.0020062	.0037215	.0016497	.1542	.0000028
%RSD	.3098687	.4942709	3.462995	6.836909	.2753368	.0650516	.0005960
#1	.1026948	.0931510	.0593506	.0518007	.6003296	236.9631	.4697252
#2	.1022458	.0938044	.0565135	.0570636	.5979965	237.1812	.4697213

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4629756	.9399052	226.3903	.5189317	.4739121	.5028685	89.31074
Stddev	.0000123	.0008455	.1774	.0004188	.0009967	.0025909	.06144
%RSD	.0026509	.0899528	.0783549	.0807055	.2103103	.5152238	.0687929
#1	.4629843	.9393074	226.5157	.5186356	.4732074	.5047005	89.35419
#2	.4629670	.9405031	226.2648	.5192279	.4746169	.5010365	89.26730

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4649118	236.7214	.9567952	.1878638	.8328163	.4601830	.9586729
Stddev	.0001688	.1450	.0010593	.0003952	.0989307	.0022257	.0099308
%RSD	.0362967	.0612365	.1107091	.2103416	11.87905	.4836496	1.035895
#1	.4650311	236.6189	.9575442	.1881432	.7628618	.4617568	.9516507
#2	.4647925	236.8239	.9560462	.1875844	.9027709	.4586092	.9656951

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.101553	.0365768	-.040158	-.000696	.0462984	-.013609	-.003409
Stddev	.032052	.0021211	.001955	.000679	.0047604	.001330	.000056
%RSD	31.56186	5.799134	4.867168	97.57104	10.28192	9.771592	1.628559
#1	-.124217	.0350770	-.041541	-.001175	.0429323	-.014549	-.003449
#2	-.078889	.0380767	-.038776	-.000216	.0496645	-.012669	-.003370

Sample Name: ICSAB Acquired: 3/15/2010 13:08:05 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: ICSAB Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	Ti3361	Li6707
Units	ppm	ppm
Avg	-.006068	.0019314
Stddev	.000972	.0002753
%RSD	16.01904	14.25437
#1	-.006755	.0021261
#2	-.005380	.0017368

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	289.5489	3520.529	82568.27	15194.74	4186.601
Stddev	.8226	9.359	187.07	76.06	10.431
%RSD	.2840950	.2658453	.2265641	.5005476	.2491453
#1	290.1305	3513.911	82435.99	15140.96	4179.226
#2	288.9672	3527.147	82700.55	15248.52	4193.977

Sample Name: CCV Acquired: 3/15/2010 13:10:21 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: CCV Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.141735	5.010310	4.714376	5.065112	5.139978	9.828792	9.621857
Stddev	.012217	.003560	.005289	.001011	.007615	.089586	.114193
%RSD	.2376003	.0710494	.1121821	.0199570	.1481460	.9114695	1.186807
#1	5.150374	5.007792	4.718115	5.064397	5.134593	9.892139	9.702604
#2	5.133096	5.012827	4.710636	5.065827	5.145362	9.765445	9.541111

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2343685	2.410113	23.41869	1.019691	2.472909	1.259318	4.804778
Stddev	.0023879	.002713	.33592	.003007	.004128	.006868	.031245
%RSD	1.018848	.1125862	1.434392	.2948825	.1669304	.5453556	.6502941
#1	.2360570	2.412032	23.65622	1.017565	2.469990	1.264174	4.826872
#2	.2326800	2.408195	23.18116	1.021817	2.475828	1.254461	4.782685

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.336168	23.45530	2.427619	1.137095	24.58077	2.512498	2.321358
Stddev	.027084	.30371	.001179	.004290	.21165	.034714	.036175
%RSD	1.159336	1.294867	.0485761	.3772990	.8610306	1.381648	1.558357
#1	2.355320	23.67006	2.428453	1.134061	24.73043	2.537044	2.346938
#2	2.317017	23.24054	2.426785	1.140129	24.43111	2.487951	2.295779

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.20826	4.920390	4.705807	5.168745	4.692707	4.685608	4.857096
Stddev	.25747	.001661	.062206	.007247	.005389	.067566	.003549
%RSD	1.063563	.0337610	1.321889	.1402173	.1148294	1.441986	.0730710
#1	24.39032	4.921564	4.749793	5.173870	4.696517	4.733384	4.859606
#2	24.02621	4.919215	4.661821	5.163620	4.688897	4.637832	4.854586

Sample Name: CCV Acquired: 3/15/2010 13:10:21 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: CCV Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	Ti3361	Li6707
Units	ppm	ppm
Avg	4.856765	4.999185
Stddev	.045298	.044374
%RSD	.9326840	.8876194
#1	4.888796	5.030562
#2	4.824735	4.967809

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	301.7293	3667.018	87853.58	15552.36	4626.934
Stddev	6.0970	10.165	92.28	238.31	5.236
%RSD	2.020672	.2772086	.1050328	1.532323	.1131678
#1	297.4181	3659.830	87918.83	15383.84	4623.232
#2	306.0405	3674.206	87788.33	15720.87	4630.637

Sample Name: CCB Acquired: 3/15/2010 13:12:33 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: CCB Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0041998	.0069094	.0024791	.0006362	.0018551	.0088887	.0031532
Stddev	.0007651	.0015212	.0008686	.0003658	.0005459	.0035906	.0003066
%RSD	18.21837	22.01636	35.03736	57.49019	29.42666	40.39513	9.723523
#1	.0047408	.0079851	.0018649	.0003776	.0022411	.0063498	.0033700
#2	.0036587	.0058338	.0030934	.0008949	.0014691	.0114277	.0029363

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001054	.0014468	.0581096	.0008243	.0016730	.0001060	.0102373
Stddev	.0001629	.0000473	.0059323	.0003069	.0002154	.0009677	.0031671
%RSD	154.6370	3.265830	10.20887	37.23625	12.87214	913.3448	30.93732
#1	-.000010	.0014134	.0539148	.0006072	.0018253	-.000578	.0124768
#2	.000221	.0014802	.0623044	.0010413	.0015207	.000790	.0079978

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0012094	.0354192	.0013376	.0005133	.1036823	.0019094	.0027930
Stddev	.0002906	.0038719	.0000376	.0002339	.0589318	.0000907	.0020431
%RSD	24.03011	10.93165	2.813931	45.56979	56.83881	4.749135	73.15069
#1	.0014149	.0381571	.0013110	.0006787	.1453534	.0019736	.0042377
#2	.0010039	.0326814	.0013642	.0003479	.0620112	.0018453	.0013483

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0762697	.0043663	.0090709	.0057743	-.001068	.0007107	.0021693
Stddev	.0253524	.0004956	.0038165	.0004743	.002937	.0001591	.0001373
%RSD	33.24052	11.35094	42.07366	8.213768	274.9320	22.39004	6.331209
#1	.0941966	.0040159	.0117696	.0061097	.001009	.0005982	.0022664
#2	.0583428	.0047168	.0063723	.0054390	-.003145	.0008232	.0020721

Sample Name: CCB Acquired: 3/15/2010 13:12:33 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: CCB Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	Ti3361	Li6707
Units	ppm	ppm
Avg	.0024518	.0002730
Stddev	.0003733	.0002021
%RSD	15.22578	74.02695
#1	.0027158	.0001301
#2	.0021879	.0004159

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	307.0106	3881.780	92526.89	15550.24	5291.384
Stddev	6.8272	.512	446.07	41.56	18.625
%RSD	2.223774	.0131830	.4821001	.2672522	.3519852
#1	302.1830	3882.141	92211.47	15520.86	5278.215
#2	311.8382	3881.418	92842.31	15579.63	5304.554

Sample Name: B1582-05 Acquired: 3/15/2010 13:14:57 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: MY5Y13 Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2783643	.0034056	.0032664	-.001746	-.003681	.0012880	.0483425
Stddev	.0016713	.0004996	.0010013	.003759	.000481	.0024268	.0003882
%RSD	.6004162	14.67026	30.65446	215.3797	13.05639	188.4220	.8029616
#1	.2771825	.0030523	.0039744	-.004404	-.004021	.0030040	.0480680
#2	.2795461	.0037589	.0025584	.000913	-.003341	-.000428	.0486170

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000211	.0001592	61.28999	-.000375	.0000878	.0005711	.0116747
Stddev	.0000241	.0000656	.02094	.000037	.0002012	.0001815	.0005745
%RSD	114.3021	41.20214	.0341649	9.843127	229.0949	31.79236	4.920560
#1	.0000382	.0001128	61.27519	-.000401	-.000054	.0004427	.0120809
#2	.0000041	.0002056	61.30480	-.000349	.000230	.0006994	.0112685

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1279725	11.83408	.0018811	-.000136	4.754451	.0007350	.0410716
Stddev	.0001767	.03265	.0004665	.000101	.045968	.0001488	.0003442
%RSD	.1380595	.2758703	24.79805	74.19910	.9668444	20.24566	.8381558
#1	.1278476	11.81100	.0022110	-.000208	4.786956	.0008402	.0413150
#2	.1280975	11.85717	.0015513	-.000065	4.721947	.0006298	.0408282

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4518070	.0065284	.0138966	.0009455	24.98116	8.755282	-.009946
Stddev	.0082547	.0008518	.0010913	.0003038	.03491	.019684	.000446
%RSD	1.827035	13.04789	7.853087	32.12884	.1397492	.2248227	4.486020
#1	.4459701	.0059261	.0146682	.0011604	24.95647	8.741364	-.009630
#2	.4576439	.0071307	.0131249	.0007307	25.00584	8.769201	-.010261

Sample Name: B1582-05 Acquired: 3/15/2010 13:14:57 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: MY5Y13 Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	Ti3361	Li6707
Units	ppm	ppm
Avg	-.002055	-.002861
Stddev	.000270	.000039
%RSD	13.13469	1.349429
#1	-.002245	-.002889
#2	-.001864	-.002834

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	322.6655	3846.753	91431.52	15938.68	5135.190
Stddev	1.4775	10.762	351.44	107.55	28.660
%RSD	.4578922	.2797726	.3843722	.6747864	.5581035
#1	323.7103	3854.363	91680.03	16014.73	5155.456
#2	321.6208	3839.143	91183.02	15862.63	5114.925

Sample Name: B1582-06 Acquired: 3/15/2010 13:17:18 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: MY5Y14 Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3668512	.0016892	.0028916	-.003964	-.003927	.0342489	.0480717
Stddev	.0008468	.0024247	.0006254	.000262	.000454	.0037439	.0002530
%RSD	.2308314	143.5430	21.62974	6.615465	11.55824	10.93158	.5263043
#1	.3674500	.0034037	.0033338	-.004149	-.003606	.0316015	.0478927
#2	.3662524	-.000025	.0024493	-.003778	-.004248	.0368963	.0482506

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000333	.0000314	59.58983	-.000194	-.000056	.0019872	.2808506
Stddev	.0000415	.0000017	.35063	.000368	.000009	.0012002	.0000686
%RSD	124.3849	5.536614	.5884010	190.0595	16.33422	60.39516	.0244289
#1	.0000627	.0000301	59.34190	.000067	-.000063	.0028359	.2808991
#2	.0000040	.0000326	59.83776	-.000454	-.000050	.0011386	.2808021

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1350402	11.49718	.0017526	.0000604	4.802404	.0005334	.0497913
Stddev	.0005205	.05602	.0000794	.0000694	.171929	.0000631	.0005741
%RSD	.3854146	.4872881	4.531352	114.8429	3.580065	11.82827	1.153101
#1	.1346721	11.45756	.0018087	.0001095	4.680832	.0005781	.0501973
#2	.1354082	11.53679	.0016964	.0000114	4.923977	.0004888	.0493853

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4484918	.0153740	.0137579	.0004139	24.94172	8.619993	-.010033
Stddev	.0198824	.0004118	.0012272	.0000715	.19055	.051237	.000072
%RSD	4.433160	2.678502	8.919560	17.26922	.7639617	.5943984	.7130531
#1	.4625507	.0150828	.0146257	.0004644	25.07645	8.583763	-.009982
#2	.4344328	.0156652	.0128902	.0003634	24.80698	8.656223	-.010084

Sample Name: B1582-06 Acquired: 3/15/2010 13:17:18 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: MY5Y14 Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	Ti3361	Li6707
Units	ppm	ppm
Avg	-.001790	-.002859
Stddev	.000775	.000237
%RSD	43.29043	8.272426
#1	-.001242	-.002692
#2	-.002339	-.003027

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	313.0935	3765.869	89843.06	15914.47	5032.668
Stddev	.5922	18.021	419.11	70.06	20.400
%RSD	.1891470	.4785289	.4664966	.4402310	.4053463
#1	313.5123	3753.127	90139.41	15964.01	5018.244
#2	312.6748	3778.612	89546.70	15864.93	5047.093

Sample Name: B1582-07 Acquired: 3/15/2010 13:19:40 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: MY5Y15 Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0054623	.0018263	.0005002	-.002349	-.003740	-.011291	.0405745
Stddev	.0001700	.0021670	.0001678	.002175	.001460	.003598	.0008317
%RSD	3.112190	118.6565	33.55419	92.58939	39.03822	31.86155	2.049802
#1	.0055826	.0033586	.0006189	-.003888	-.002707	-.008747	.0411626
#2	.0053421	.0002940	.0003815	-.000811	-.004772	-.013835	.0399864

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000059	-.000038	55.62705	-.000086	-.000166	.0009128	.0023022
Stddev	.000138	.000109	.91660	.000093	.000007	.0011781	.0019129
%RSD	234.9372	283.9486	1.647753	108.6628	4.286253	129.0641	83.09015
#1	.000039	.000039	56.27519	-.000020	-.000161	.0000798	.0009496
#2	-.000156	-.000115	54.97892	-.000151	-.000171	.0017459	.0036548

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1222542	11.14310	.0021942	-.000006	4.468410	.0001952	.0200385
Stddev	.0019114	.17747	.0002075	.000300	.037486	.0001775	.0006111
%RSD	1.563466	1.592617	9.455007	4673.401	.8389184	90.92000	3.049649
#1	.1236058	11.26858	.0020475	.000206	4.441904	.0000697	.0204706
#2	.1209027	11.01761	.0023409	-.000219	4.494917	.0003207	.0196064

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4147024	.0042046	.0118467	.0004576	24.52335	7.149424	-.009633
Stddev	.0110837	.0003199	.0013273	.0003703	.06206	.143745	.000604
%RSD	2.672683	7.608324	11.20387	80.91405	.2530550	2.010582	6.268531
#1	.4225397	.0039784	.0109081	.0001958	24.47947	7.251068	-.010060
#2	.4068651	.0044308	.0127852	.0007195	24.56723	7.047781	-.009206

Sample Name: B1582-07 Acquired: 3/15/2010 13:19:40 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: MY5Y15 Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	Ti3361	Li6707
Units	ppm	ppm
Avg	-.002327	-.003326
Stddev	.000312	.000059
%RSD	13.42496	1.777242
#1	-.002547	-.003285
#2	-.002106	-.003368

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	316.3769	3757.676	89805.76	15887.91	5038.873
Stddev	6.4530	5.116	1169.00	252.71	8.530
%RSD	2.039643	.1361450	1.301700	1.590595	.1692849
#1	311.8140	3761.293	90632.37	15709.22	5044.904
#2	320.9399	3754.058	88979.15	16066.61	5032.841

Sample Name: B1582-08 Acquired: 3/15/2010 13:22:02 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: MY5Y16 Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0512899	.0023258	.0014844	-.003660	-.002626	.0020576	.0421694
Stddev	.0006400	.0013526	.0009424	.001721	.001540	.0033567	.0014370
%RSD	1.247835	58.15373	63.48740	47.01768	58.63034	163.1356	3.407581
#1	.0517425	.0013694	.0021508	-.004876	-.003715	.0044312	.0411533
#2	.0508374	.0032822	.0008180	-.002443	-.001537	-.000316	.0431854

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002497	.0000556	57.61249	.0000383	.0000186	-.000257	1.111717
Stddev	.0000389	.0000145	.77353	.0003115	.0001815	.000368	.018203
%RSD	15.58222	26.03809	1.342641	812.2553	974.2528	143.1070	1.637384
#1	.0002222	.0000453	57.06552	-.000182	.0001470	-.000517	1.098845
#2	.0002772	.0000658	58.15946	.000259	-.000110	.000003	1.124589

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1277498	11.65881	.0018552	.0001689	4.654090	.0001804	.0346334
Stddev	.0015179	.13010	.0000307	.0001943	.034514	.0001347	.0002361
%RSD	1.188212	1.115881	1.656881	115.0379	.7415891	74.67117	.6818209
#1	.1266765	11.56682	.0018335	.0003062	4.678495	.0002757	.0344664
#2	.1288232	11.75081	.0018770	.0000315	4.629684	.0000852	.0348004

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4616808	.0071556	.0130167	.0004820	24.69698	7.486296	-.009742
Stddev	.0208075	.0022515	.0003813	.0002486	.11235	.060746	.000220
%RSD	4.506903	31.46469	2.929218	51.58449	.4549089	.8114334	2.255707
#1	.4469677	.0055635	.0132863	.0003062	24.77642	7.443342	-.009897
#2	.4763940	.0087476	.0127471	.0006578	24.61754	7.529250	-.009586

Sample Name: B1582-08 Acquired: 3/15/2010 13:22:02 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: MY5Y16 Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	Ti3361	Li6707
Units	ppm	ppm
Avg	-.002507	-.003643
Stddev	.000169	.000050
%RSD	6.754016	1.379068
#1	-.002626	-.003678
#2	-.002387	-.003607

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	306.2926	3727.945	88530.28	15287.64	4990.282
Stddev	2.1045	19.198	1215.04	153.10	20.693
%RSD	.6870930	.5149752	1.372452	1.001484	.4146713
#1	304.8044	3714.370	89389.44	15395.90	4975.650
#2	307.7807	3741.520	87671.13	15179.38	5004.914

Sample Name: B1582-09 Acquired: 3/15/2010 13:24:24 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: MY5Y17 Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0221133	.0024382	.0001636	-.000941	-.002019	-.006904	.0406341
Stddev	.0029006	.0010616	.0004412	.000833	.001077	.001264	.0004371
%RSD	13.11692	43.54000	269.7767	88.52306	53.33004	18.31060	1.075579
#1	.0241644	.0031889	-.000148	-.001531	-.001257	-.006010	.0403251
#2	.0200623	.0016876	.000476	-.000352	-.002780	-.007798	.0409432

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000194	-.000017	57.06210	.0000767	-.000623	-.000526	.0150389
Stddev	.0000069	.000092	.18681	.0001437	.000218	.000090	.0023131
%RSD	35.73700	544.8761	.3273829	187.1994	34.95382	17.12030	15.38099
#1	.0000145	-.000082	56.93000	-.000025	-.000777	-.000462	.0166745
#2	.0000243	.000048	57.19419	.000178	-.000469	-.000589	.0134033

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0029743	11.22693	.0017324	.0002033	4.298555	.0002503	.0207077
Stddev	.0000356	.01971	.0000732	.0000158	.072493	.0003458	.0019974
%RSD	1.198580	.1755249	4.225112	7.759596	1.686442	138.1716	9.645589
#1	.0029995	11.21300	.0017841	.0001922	4.349815	.0004948	.0192953
#2	.0029491	11.24086	.0016806	.0002145	4.247295	.0000058	.0221201

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3704088	.0053030	.0104977	.0005005	23.69628	6.933547	-.010230
Stddev	.0097506	.0000512	.0005870	.0006463	1.29030	.006879	.001016
%RSD	2.632394	.9651918	5.592095	129.1355	5.445160	.0992190	9.934636
#1	.3773036	.0053392	.0100826	.0009576	24.60866	6.928682	-.009512
#2	.3635141	.0052668	.0109128	.0000435	22.78390	6.938411	-.010949

Sample Name: B1582-09 Acquired: 3/15/2010 13:24:24 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: MY5Y17 Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	Ti3361	Li6707
Units	ppm	ppm
Avg	-.002063	-.004072
Stddev	.000469	.000091
%RSD	22.71621	2.231296
#1	-.001731	-.004137
#2	-.002394	-.004008

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	315.8015	3849.818	88223.13	15548.00	5128.820
Stddev	.8276	172.812	561.98	3.39	230.899
%RSD	.2620660	4.488833	.6370014	.0218334	4.501996
#1	316.3867	3727.622	87825.74	15545.60	4965.549
#2	315.2163	3972.015	88620.51	15550.40	5292.090

Sample Name: B1582-10 Acquired: 3/15/2010 13:26:46 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: MY5Y17D Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0206512	.0022526	.0014810	-.002819	-.003064	-.007279	.0407722
Stddev	.0001306	.0011918	.0006162	.001899	.000202	.006154	.0003899
%RSD	.6325748	52.90591	41.60718	67.36517	6.607535	84.53436	.9563065
#1	.0205588	.0014099	.0010453	-.004162	-.003207	-.011631	.0404965
#2	.0207435	.0030953	.0019167	-.001476	-.002921	-.002928	.0410479

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001050	-.000035	56.92990	-.000344	-.000666	-.000074	.0021255
Stddev	.0000184	.000030	.15054	.000142	.000028	.001316	.0039757
%RSD	17.54564	86.93076	.2644306	41.20311	4.244344	1769.361	187.0462
#1	.0000919	-.000013	56.82345	-.000445	-.000686	.000856	.0049368
#2	.0001180	-.000056	57.03635	-.000244	-.000646	-.001005	-.000686

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0030880	11.17335	.0022082	-.000071	4.258042	.0005492	.0169655
Stddev	.0002376	.00274	.0001232	.000258	.107126	.0001068	.0000670
%RSD	7.695517	.0244908	5.578021	363.8104	2.515856	19.45058	.3951342
#1	.0029199	11.17528	.0021211	-.000253	4.182292	.0006248	.0170129
#2	.0032560	11.17141	.0022953	.000112	4.333792	.0004737	.0169181

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3932779	.0032115	.0120754	.0002716	24.58635	6.877771	-.009988
Stddev	.0272388	.0021653	.0001821	.0000084	.16407	.013371	.000343
%RSD	6.926100	67.42180	1.507629	3.092536	.6673048	.1944035	3.429392
#1	.4125387	.0016804	.0122041	.0002775	24.70236	6.868317	-.009746
#2	.3740171	.0047426	.0119467	.0002656	24.47033	6.887226	-.010230

Sample Name: B1582-10 Acquired: 3/15/2010 13:26:46 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: MY5Y17D Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	Ti3361	Li6707
Units	ppm	ppm
Avg	-.003278	-.003787
Stddev	.000115	.000267
%RSD	3.496958	7.058504
#1	-.003197	-.003976
#2	-.003359	-.003598

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	308.2315	3672.047	84176.87	15196.33	4888.058
Stddev	2.4487	16.070	1687.27	28.99	30.548
%RSD	.7944405	.4376349	2.004430	.1907686	.6249415
#1	309.9630	3660.683	82983.79	15216.83	4866.458
#2	306.5000	3683.410	85369.94	15175.83	4909.659

Sample Name: B1582-11 Acquired: 3/15/2010 13:29:07 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: MY5Y17S Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0677756	.0566582	.0214591	.0533575	.1097242	2.070413	2.098429
Stddev	.0011754	.0001406	.0006057	.0006546	.0020304	.016447	.003390
%RSD	1.734292	.2481315	2.822811	1.226747	1.850461	.7943816	.1615436
#1	.0669444	.0567576	.0210307	.0538203	.1111599	2.082043	2.100826
#2	.0686067	.0565588	.0218874	.0528947	.1082885	2.058783	2.096032

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0531753	.0524510	57.97194	.2221789	.4938104	.2631304	1.039832
Stddev	.0000257	.0008522	.21135	.0025803	.0068950	.0017433	.004407
%RSD	.0482634	1.624752	.3645671	1.161386	1.396295	.6625064	.4238271
#1	.0531571	.0530536	58.12139	.2240035	.4986859	.2618977	1.036716
#2	.0531934	.0518484	57.82250	.2203543	.4889349	.2643631	1.042948

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5126745	11.36854	.4944128	.0446040	4.266164	.5620611	.5124066
Stddev	.0000225	.07233	.0074154	.0006618	.026941	.0031861	.0010477
%RSD	.0043889	.6361924	1.499830	1.483790	.6315136	.5668618	.2044667
#1	.5126905	11.41969	.4996562	.0450720	4.247114	.5643140	.5116658
#2	.5126586	11.31740	.4891694	.0441360	4.285215	.5598082	.5131475

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3671953	-.008411	.0091316	-.000005	23.91279	7.009745	-.010646
Stddev	.0216697	.000672	.0018969	.000096	.27440	.005701	.000251
%RSD	5.901418	7.991042	20.77283	1785.440	1.147510	.0813347	2.360223
#1	.3825181	-.007936	.0104729	.000063	24.10682	7.013776	-.010823
#2	.3518725	-.008886	.0077903	-.000074	23.71876	7.005713	-.010468

Sample Name: B1582-11 Acquired: 3/15/2010 13:29:07 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: MY5Y17S Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	Ti3361	Li6707
Units	ppm	ppm
Avg	-.002530	-.003877
Stddev	.000248	.000781
%RSD	9.821259	20.14781
#1	-.002354	-.003325
#2	-.002705	-.004429

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	299.1707	3826.377	86344.84	14678.09	5052.501
Stddev	.0950	67.300	878.12	41.55	92.331
%RSD	.0317450	1.758854	1.016988	.2830944	1.827439
#1	299.2379	3778.788	85723.92	14648.71	4987.212
#2	299.1036	3873.965	86965.77	14707.47	5117.789

Sample Name: B1582-12 Acquired: 3/15/2010 13:31:23 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: MY5Y18 Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0238130	.0029012	.0014253	-.004238	-.003288	-.010400	.0408459
Stddev	.0003219	.0006617	.0005697	.001593	.000459	.006684	.0006472
%RSD	1.351734	22.80833	39.97109	37.57534	13.94364	64.26965	1.584490
#1	.0240406	.0024333	.0018281	-.005364	-.003613	-.005674	.0413036
#2	.0235854	.0033691	.0010225	-.003112	-.002964	-.015126	.0403883

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000744	-.000050	57.89865	-.000292	-.000690	-.000509	.0183902
Stddev	.0001203	.000034	.54485	.000311	.000070	.001091	.0006526
%RSD	161.8247	67.98960	.9410378	106.3171	10.12828	214.3674	3.548453
#1	-.000011	-.000074	58.28391	-.000073	-.000641	.000263	.0188516
#2	.000159	-.000026	57.51338	-.000512	-.000740	-.001281	.0179288

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0031176	11.44739	.0021733	.0000701	4.488328	.0006034	.0210152
Stddev	.0000611	.17088	.0000241	.0002728	.029319	.0001553	.0001464
%RSD	1.960456	1.492759	1.109004	388.9507	.6532383	25.73965	.6963849
#1	.0030743	11.56822	.0021562	-.000123	4.467596	.0007132	.0209117
#2	.0031608	11.32656	.0021903	.000263	4.509060	.0004936	.0211187

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4016259	.0042096	.0119701	.0004070	24.94546	7.014257	-.010390
Stddev	.0030315	.0015660	.0000824	.0000551	1.35781	.070181	.000013
%RSD	.7548125	37.20168	.6887067	13.53106	5.443125	1.000543	.1228322
#1	.3994823	.0031022	.0119118	.0004460	25.90558	7.063883	-.010399
#2	.4037695	.0053170	.0120284	.0003681	23.98534	6.964632	-.010381

Sample Name: B1582-12 Acquired: 3/15/2010 13:31:23 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: MY5Y18 Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	Ti3361	Li6707
Units	ppm	ppm
Avg	-.002826	-.003887
Stddev	.000131	.000493
%RSD	4.641263	12.69148
#1	-.002918	-.004236
#2	-.002733	-.003538

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	305.3217	3712.593	88516.51	15102.05	4939.181
Stddev	5.7780	151.782	947.36	19.32	227.941
%RSD	1.892442	4.088299	1.070268	.1279030	4.614953
#1	301.2360	3605.267	89186.40	15088.39	4778.002
#2	309.4074	3819.919	87846.63	15115.71	5100.359

Sample Name: B1582-13 Acquired: 3/15/2010 13:33:44 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: MY5Y18D Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0225892	.0025020	.0004554	-.004156	-.002980	-.008770	.0414477
Stddev	.0002675	.0006755	.0007236	.001130	.000130	.008141	.0004284
%RSD	1.183969	26.99733	158.8933	27.18976	4.354518	92.83271	1.033657
#1	.0224001	.0029796	-.000056	-.003357	-.003072	-.014526	.0417506
#2	.0227783	.0020243	.000967	-.004955	-.002888	-.003013	.0411447

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001491	.0000754	58.52816	.0000581	-.000751	-.000350	.0099597
Stddev	.0000412	.0000011	.23524	.0001477	.000208	.000069	.0006620
%RSD	27.64545	1.465159	.4019291	254.3453	27.68465	19.60516	6.646483
#1	.0001783	.0000746	58.69450	.0001625	-.000898	-.000302	.0094916
#2	.0001200	.0000761	58.36181	-.000046	-.000604	-.000399	.0104277

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0032186	11.58917	.0019379	.0000998	4.314172	.0002359	.0207141
Stddev	.0000771	.02663	.0001409	.0004124	.008943	.0000918	.0007354
%RSD	2.394824	.2297654	7.269724	413.1604	.2072871	38.92780	3.550293
#1	.0031641	11.60800	.0020376	-.000192	4.320495	.0003009	.0201941
#2	.0032731	11.57034	.0018383	.000391	4.307848	.0001710	.0212341

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3571754	.0045576	.0096877	.0004034	24.48746	7.059646	-.010457
Stddev	.0514049	.0004900	.0029726	.0001019	.05576	.018228	.000708
%RSD	14.39205	10.75172	30.68451	25.26148	.2277233	.2582018	6.768986
#1	.3935241	.0042111	.0075857	.0004755	24.44802	7.072536	-.009956
#2	.3208267	.0049041	.0117896	.0003314	24.52689	7.046757	-.010957

Sample Name: B1582-13 Acquired: 3/15/2010 13:33:44 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: MY5Y18D Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	Ti3361	Li6707
Units	ppm	ppm
Avg	-.002695	-.003675
Stddev	.001177	.000936
%RSD	43.65714	25.47055
#1	-.003527	-.004337
#2	-.001863	-.003013

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	303.9982	3767.193	88381.49	14889.03	5010.351
Stddev	2.3203	23.844	3918.02	11.09	23.997
%RSD	.7632650	.6329352	4.433075	.0745079	.4789572
#1	305.6389	3784.053	85611.03	14881.19	5027.320
#2	302.3575	3750.333	91151.95	14896.88	4993.382

Sample Name: B1582-14 Acquired: 3/15/2010 13:36:04 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: MY5Y18S Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0673046	.0573103	.0203369	.0578572	.1120440	2.065405	2.067832
Stddev	.0013448	.0017240	.0019748	.0042956	.0013382	.007938	.004930
%RSD	1.998095	3.008193	9.710367	7.424414	1.194337	.3843487	.2384148
#1	.0663537	.0560913	.0217333	.0548198	.1110978	2.071018	2.071318
#2	.0682556	.0585294	.0189405	.0608946	.1129903	2.059792	2.064346

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0522783	.0531833	57.90055	.2212158	.5014460	.2637729	1.044550
Stddev	.0000674	.0012275	.32634	.0025195	.0103700	.0009986	.009281
%RSD	.1289688	2.308112	.5636150	1.138944	2.068020	.3785950	.8885423
#1	.0523260	.0523153	58.13130	.2229974	.4941133	.2630667	1.051113
#2	.0522306	.0540513	57.66979	.2194342	.5087787	.2644790	1.037988

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5054632	11.43402	.5020414	.0444553	4.346007	.5547051	.5046754
Stddev	.0022706	.03777	.0111157	.0006023	.044311	.0022297	.0027410
%RSD	.4492142	.3303700	2.214109	1.354836	1.019571	.4019624	.5431178
#1	.5070688	11.46073	.4941814	.0448812	4.377339	.5562817	.5066136
#2	.5038577	11.40731	.5099014	.0440294	4.314675	.5531284	.5027373

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3803777	-.005401	.0087280	.0001600	24.62597	7.012325	-.009896
Stddev	.0176887	.001128	.0017067	.0000048	.50447	.045574	.000701
%RSD	4.650287	20.88403	19.55481	3.009580	2.048526	.6499120	7.079179
#1	.3678699	-.004604	.0075212	.0001634	24.26926	7.044551	-.009401
#2	.3928854	-.006199	.0099349	.0001566	24.98268	6.980100	-.010391

Sample Name: B1582-14 Acquired: 3/15/2010 13:36:04 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: MY5Y18S Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	Ti3361	Li6707
Units	ppm	ppm
Avg	-.002808	-.004119
Stddev	.000403	.000288
%RSD	14.33512	6.981602
#1	-.002523	-.004323
#2	-.003092	-.003916

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	303.0093	3728.959	86948.79	14871.78	4921.677
Stddev	2.2654	70.430	1044.18	98.30	96.628
%RSD	.7476199	1.888724	1.200909	.6609840	1.963308
#1	301.4075	3778.760	86210.45	14802.27	4990.003
#2	304.6112	3679.157	87687.14	14941.29	4853.351

Sample Name: CCV Acquired: 3/15/2010 13:38:21 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: CCV Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.840301	4.814789	4.543358	4.734153	4.793215	9.562499
Stddev	.020153	.027723	.029944	.014637	.013294	.017959
%RSD	.4163636	.5757946	.6590684	.3091866	.2773399	.1878045
#1	4.826050	4.795186	4.522185	4.723802	4.783815	9.549800
#2	4.854551	4.834392	4.564532	4.744503	4.802615	9.575197

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.184825	.2337661	2.362267	23.39741	1.015627	2.367114
Stddev	.123384	.0009310	.013232	.09684	.003275	.012215
%RSD	1.343349	.3982414	.5601319	.4138785	.3224806	.5160341
#1	9.097579	.2331078	2.352910	23.32893	1.017942	2.358476
#2	9.272071	.2344244	2.371623	23.46588	1.013311	2.375751

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.220409	4.751869	2.323290	23.43728	2.324526	F1.118801
Stddev	.001785	.021848	.001466	.21890	.011992	.000676
%RSD	.1462364	.4597827	.0631027	.9339859	.5158810	.0604113
#1	1.221671	4.736420	2.322253	23.28250	2.316047	1.119279
#2	1.219147	4.767318	2.324327	23.59207	2.333006	1.118323

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	23.96033	2.563829	2.265605	23.57970	4.630880	4.644168
Stddev	.04867	.001737	.005154	.04017	.007419	.015064
%RSD	.2031290	.0677621	.2274697	.1703643	.1601999	.3243643
#1	23.92591	2.562601	2.261961	23.55130	4.625634	4.633516
#2	23.99474	2.565058	2.269249	23.60811	4.636126	4.654820

Sample Name: CCV Acquired: 3/15/2010 13:38:21 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: CCV Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.890284	4.475911	4.673832	4.680984	4.747486	4.802886
Stddev	.018063	.033575	.029806	.032882	.002155	.003637
%RSD	.3693599	.7501318	.6377301	.7024533	.0453826	.0757315
#1	4.877512	4.452169	4.652755	4.657733	4.749010	4.800314
#2	4.903056	4.499652	4.694908	4.704235	4.745963	4.805458

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	295.1791	3813.665	86392.31	14779.86	4765.041
Stddev	.0882	.042	434.74	28.66	6.688
%RSD	.0298723	.0010949	.5032113	.1938882	.1403531
#1	295.2414	3813.694	86084.91	14759.60	4769.770
#2	295.1167	3813.635	86699.72	14800.12	4760.312

Sample Name: CCB Acquired: 3/15/2010 13:40:32 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: CCB Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0038048	.0084751	.0030747	.0010763	.0013612	.0173910	.0040996
Stddev	.0005072	.0012242	.0003798	.0000810	.0000128	.0013223	.0000532
%RSD	13.32980	14.44460	12.35311	7.521359	.9375719	7.603401	1.297983
#1	.0041634	.0093407	.0033433	.0010191	.0013521	.0164560	.0040620
#2	.0034462	.0076095	.0028062	.0011336	.0013702	.0183260	.0041372

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001474	.0016127	.0627943	.0005329	.0018547	-.000043	.0079039
Stddev	.0000273	.0000219	.0072972	.0001664	.0001288	.000500	.0030499
%RSD	18.51876	1.359951	11.62082	31.22346	6.944496	1165.799	38.58703
#1	.0001281	.0015972	.0576344	.0006505	.0017636	.000311	.0057473
#2	.0001667	.0016282	.0679543	.0004152	.0019458	-.000397	.0100605

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0019194	.0495433	.0016618	.0005715	.0596881	.0021133	.0032015
Stddev	.0000190	.0074428	.0003039	.0001712	.0852098	.0002173	.0007698
%RSD	.9905678	15.02273	18.28564	29.96684	142.7584	10.28110	24.04408
#1	.0019060	.0548061	.0014470	.0004504	.1199405	.0022669	.0026572
#2	.0019329	.0442805	.0018767	.0006926	-.000564	.0019597	.0037458

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0664508	.0031086	.0116290	.0060130	-.001598	.0000410	.0027726
Stddev	.0164526	.0009289	.0031840	.0008100	.000668	.0046086	.0006635
%RSD	24.75901	29.88131	27.38011	13.47099	41.81680	11239.04	23.92965
#1	.0780846	.0024518	.0138804	.0065857	-.001125	.0032998	.0032418
#2	.0548171	.0037654	.0093775	.0054402	-.002070	-.003218	.0023035

Sample Name: CCB Acquired: 3/15/2010 13:40:32 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: CCB Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	Ti3361	Li6707
Units	ppm	ppm
Avg	.0018632	.0008824
Stddev	.0001758	.0000117
%RSD	9.436922	1.321135
#1	.0017389	.0008741
#2	.0019875	.0008906

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	317.8596	4087.980	95162.64	15379.17	5500.713
Stddev	4.1502	8.693	296.62	102.71	2.695
%RSD	1.305667	.2126356	.3116930	.6678210	.0490003
#1	314.9250	4081.833	95372.38	15306.54	5498.807
#2	320.7942	4094.126	94952.90	15451.79	5502.619

Sample Name: B1582-09LX5 Acquired: 3/15/2010 13:42:56 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: MY5Y17L Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0064979	.0014211	.0006694	-.002318	-.002535	-.011273	.0064403
Stddev	.0020972	.0005341	.0004506	.001268	.000319	.000448	.0004740
%RSD	32.27550	37.58466	67.31255	54.68921	12.60081	3.971489	7.359630
#1	.0050150	.0017987	.0003508	-.001422	-.002309	-.010956	.0061051
#2	.0079809	.0010434	.0009880	-.003215	-.002761	-.011589	.0067754

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000019	.0000172	11.76872	-.000136	-.000422	.0010069	-.002420
Stddev	.000124	.0000307	.04104	.000098	.000242	.0016407	.006029
%RSD	666.9822	178.9501	.3487040	71.73746	57.23992	162.9461	249.1510
#1	-.000107	.0000389	11.73970	-.000067	-.000593	.0021670	.001843
#2	.000069	-.000005	11.79774	-.000205	-.000251	-.000153	-.006683

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003785	2.302549	.0005124	-.000021	.8212285	.0001293	.0059992
Stddev	.0000866	.013911	.0002063	.000060	.2089169	.0002345	.0000214
%RSD	22.87255	.6041649	40.26469	288.5358	25.43955	181.4157	.3566449
#1	.0003172	2.292712	.0003665	.000021	.6735020	.0002950	.0059841
#2	.0004397	2.312385	.0006582	-.000063	.9689551	-.000037	.0060143

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1571956	.0019960	.0054236	.0004145	4.528530	1.392160	-.002133
Stddev	.0073979	.0007984	.0036982	.0001746	.036146	.015416	.000183
%RSD	4.706159	40.00075	68.18660	42.12663	.7981890	1.107346	8.570285
#1	.1519645	.0014314	.0028086	.0005380	4.502971	1.381260	-.002262
#2	.1624267	.0025605	.0080386	.0002910	4.554090	1.403061	-.002004

Sample Name: B1582-09LX5 Acquired: 3/15/2010 13:42:56 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: MY5Y17L Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	Ti3361	Li6707
Units	ppm	ppm
Avg	-.001419	-.003426
Stddev	.000370	.000209
%RSD	26.07162	6.104000
#1	-.001681	-.003574
#2	-.001157	-.003278

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	299.2259	3813.833	89145.27	14639.68	5068.000
Stddev	.7203	19.548	338.73	15.14	30.313
%RSD	.2407244	.5125539	.3799710	.1033880	.5981283
#1	298.7165	3827.655	88905.75	14650.38	5089.435
#2	299.7352	3800.010	89384.78	14628.98	5046.565

Sample Name: B1582-12LX5 Acquired: 3/15/2010 13:45:19 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: MY5Y18L Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0042764	.0006305	-.000791	-.003769	-.002796	-.009629	.0062320
Stddev	.0011465	.0010298	.000361	.000698	.000575	.001115	.0002925
%RSD	26.80944	163.3354	45.72398	18.51022	20.55789	11.58003	4.693148
#1	.0034657	-.000098	-.000535	-.004262	-.003202	-.008841	.0060252
#2	.0050871	.001359	-.001046	-.003275	-.002389	-.010418	.0064388

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000054	.0000226	11.18604	-.000148	-.000421	-.000681	-.001927
Stddev	.000298	.0000005	.16938	.000291	.000045	.001368	.002499
%RSD	549.8870	2.165605	1.514199	196.6126	10.68887	200.9662	129.6768
#1	.000157	.0000223	11.06627	-.000354	-.000389	-.001649	-.003695
#2	-.000265	.0000230	11.30580	.000058	-.000452	.000287	-.000160

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002706	2.186957	.0002286	.0000148	.6267713	.0003792	.0046590
Stddev	.0002324	.024506	.0000475	.0000445	.0067613	.0003698	.0001504
%RSD	85.89377	1.120549	20.79867	300.1406	1.078746	97.50900	3.227200
#1	.0001062	2.169628	.0001950	.0000463	.6219904	.0006407	.0045527
#2	.0004349	2.204285	.0002622	-.000017	.6315523	.0001178	.0047653

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1227483	.0036944	.0010738	.0003464	4.172138	1.324779	-.003089
Stddev	.0042866	.0010664	.0009959	.0003967	.100041	.012669	.000180
%RSD	3.492190	28.86392	92.74700	114.5262	2.397824	.9562836	5.831741
#1	.1257794	.0044484	.0003696	.0006269	4.242877	1.315821	-.002961
#2	.1197173	.0029404	.0017781	.0000659	4.101398	1.333737	-.003216

Sample Name: B1582-12LX5 Acquired: 3/15/2010 13:45:19 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: MY5Y18L Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	Ti3361	Li6707
Units	ppm	ppm
Avg	-.000637	-.004918
Stddev	.000025	.000207
%RSD	3.968635	4.210183
#1	-.000619	-.005065
#2	-.000655	-.004772

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	303.1845	3991.847	86904.82	14829.63	5294.470
Stddev	.3154	84.171	138.13	126.13	118.649
%RSD	.1040324	2.108581	.1589493	.8505609	2.241003
#1	303.4075	3932.329	87002.50	14918.82	5210.572
#2	302.9615	4051.365	86807.15	14740.43	5378.368

Sample Name: B1560-04A Acquired: 3/15/2010 13:47:42 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: MF3FY3A Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0033769	.0034934	.0059843	-.003164	-.002432	.2861745	.1278608
Stddev	.0001607	.0005563	.0007285	.000704	.000590	.0027021	.0001061
%RSD	4.758087	15.92454	12.17390	22.25960	24.24963	.9442156	.0830036
#1	.0034905	.0038868	.0064994	-.002666	-.002015	.2842638	.1277858
#2	.0032633	.0031000	.0054691	-.003662	-.002849	.2880851	.1279358

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001139	.0003480	100.7965	.0030593	-.000236	.0075254	5.889025
Stddev	.0000112	.0000953	.0525	.0002610	.000052	.0003447	.017064
%RSD	9.839318	27.39048	.0520806	8.532332	21.93055	4.580282	.2897558
#1	.0001218	.0002806	100.8336	.0028747	-.000199	.0072817	5.876959
#2	.0001060	.0004154	100.7594	.0032439	-.000273	.0077691	5.901091

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1061088	5.180297	.0027313	.0000783	12.16776	.0020034	.0143898
Stddev	.0003496	.029226	.0000621	.0003517	.08284	.0003185	.0017381
%RSD	.3294484	.5641799	2.272512	449.0116	.6808133	15.89662	12.07834
#1	.1058616	5.200964	.0026874	.0003270	12.22633	.0017782	.0156188
#2	.1063560	5.159631	.0027752	-.000170	12.10918	.0022286	.0131609

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6136918	.0384418	.0276167	.0009097	12.09324	8.214860	-.010119
Stddev	.0129679	.0000116	.0005615	.0000967	.02258	.027263	.000412
%RSD	2.113095	.0302814	2.033349	10.63141	.1867358	.3318713	4.067328
#1	.6045221	.0384500	.0280137	.0009781	12.07727	8.234137	-.010410
#2	.6228615	.0384336	.0272196	.0008413	12.10921	8.195582	-.009828

Sample Name: B1560-04A Acquired: 3/15/2010 13:47:42 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: MF3FY3A Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	Ti3361	Li6707
Units	ppm	ppm
Avg	-.000190	.0025995
Stddev	.000211	.0000412
%RSD	110.9819	1.585127
#1	-.000340	.0025703
#2	-.000041	.0026286

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	303.9038	3762.767	86289.51	14712.95	4787.334
Stddev	2.2772	21.819	7.34	27.07	28.326
%RSD	.7493103	.5798733	.0085034	.1840146	.5916785
#1	305.5141	3778.195	86284.32	14693.81	4807.364
#2	302.2936	3747.338	86294.69	14732.10	4767.305

Sample Name: ZZZZZZ Acquired: 3/15/2010 13:50:04 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: ZZZZZZ Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0017462	.0004970	-.001313	-.002285	-.001149	-.005052	-.002494
Stddev	.0006922	.0006587	.000119	.001361	.001101	.001252	.000289
%RSD	39.63889	132.5266	9.048298	59.57313	95.76672	24.77916	11.57401
#1	.0022357	.0009628	-.001397	-.003248	-.001928	-.004167	-.002290
#2	.0012568	.0000313	-.001229	-.001323	-.000371	-.005937	-.002698

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001402	-.000026	.0011531	-.000523	.0000415	-.001012	-.002068
Stddev	.0000252	.000024	.0083874	.000151	.0000636	.000298	.002435
%RSD	17.95741	91.98592	727.3981	28.86095	153.4339	29.47235	117.7418
#1	.0001224	-.000009	-.004778	-.000417	.0000865	-.000801	-.003791
#2	.0001579	-.000043	.007084	-.000630	-.000004	-.001223	-.000346

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000207	.0152679	.0000971	.0000107	.0106124	.0000877	.0001676
Stddev	.000160	.0200369	.0000986	.0001345	.0202767	.0003758	.0001088
%RSD	77.21916	131.2353	101.4877	1260.565	191.0663	428.6680	64.90712
#1	-.000320	.0010997	.0001668	-.000084	.0249502	-.000178	.0002446
#2	-.000094	.0294362	.0000274	.000106	-.003725	.000353	.0000907

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0413888	.0024801	-.001613	.0002053	-.007316	-.011746	-.000781
Stddev	.0193124	.0009057	.000426	.0000816	.002825	.001512	.000593
%RSD	46.66083	36.51852	26.38507	39.73548	38.61237	12.87557	75.92768
#1	.0550448	.0031205	-.001914	.0001476	-.005318	-.012816	-.000362
#2	.0277329	.0018397	-.001312	.0002630	-.009313	-.010677	-.001201

Sample Name: ZZZZZZ Acquired: 3/15/2010 13:50:04 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: ZZZZZZ Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	Ti3361	Li6707
Units	ppm	ppm
Avg	-.001140	-.004583
Stddev	.000321	.000692
%RSD	28.14818	15.10445
#1	-.001367	-.005073
#2	-.000913	-.004094

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	308.9953	4032.108	92556.46	15232.75	5378.119
Stddev	1.3646	7.955	436.19	12.97	15.666
%RSD	.4416157	.1972875	.4712667	.0851450	.2912883
#1	308.0304	4026.483	92248.03	15241.92	5367.042
#2	309.9602	4037.732	92864.89	15223.58	5389.197

Sample Name: CRI Acquired: 3/15/2010 13:52:28 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: CRI Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0095996	.0253875	.0088152	.0297879	.0570218	-.001319	-.001958
Stddev	.0010268	.0010620	.0007713	.0006096	.0002865	.003310	.000117
%RSD	10.69603	4.183081	8.749706	2.046640	.5024427	250.8940	5.989034
#1	.0103256	.0261384	.0093606	.0293568	.0568193	-.003660	-.002041
#2	.0088736	.0246366	.0082698	.0302190	.0572244	.001021	-.001875

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0046965	.0047162	.0860226	.0100386	.0469174	.0233887	.0956465
Stddev	.0000327	.0000368	.0006637	.0000735	.0000457	.0009179	.0008624
%RSD	.6969094	.7808842	.7715194	.7321655	.0974965	3.924356	.901650
#1	.0046733	.0047422	.0864919	.0100906	.0468851	.0227396	.0950367
#2	.0047196	.0046901	.0855533	.0099867	.0469498	.0240377	.0962563

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0145977	.0154670	.0376783	.0091666	-.046428	.0550642	.0554892
Stddev	.0004519	.0201493	.0003264	.0002384	.167586	.0004696	.0012941
%RSD	3.095379	130.2726	.8663107	2.600867	360.9603	.8528733	2.332102
#1	.0142782	.0297148	.0379091	.0089981	.072073	.0547321	.0545742
#2	.0149172	.0012193	.0374475	.0093352	-.164929	.0553962	.0564042

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0388201	.0000609	F-.000455	-.000169	.0039014	-.003338	-.000554
Stddev	.0499740	.0010763	.000689	.000189	.0005787	.003692	.000138
%RSD	128.7324	1767.653	151.6615	112.3400	14.83394	110.6265	24.87061
#1	.0034831	-.000700	.000033	-.000035	.0043106	-.000727	-.000651
#2	.0741570	.000822	-.000942	-.000303	.0034921	-.005949	-.000456

Sample Name: CRI Acquired: 3/15/2010 13:52:28 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: CRI Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	Ti3361	Li6707
Units	ppm	ppm
Avg	-.001527	F-.004299
Stddev	.000191	.000590
%RSD	12.50463	13.73396
#1	-.001392	-.004716
#2	-.001662	-.003881

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	317.8402	4140.467	95426.90	15424.51	5516.815
Stddev	2.4691	20.296	617.30	122.60	11.840
%RSD	.7768367	.4901785	.6468798	.7948380	.2146173
#1	319.5861	4126.115	94990.40	15511.20	5508.443
#2	316.0943	4154.818	95863.39	15337.82	5525.187

Sample Name: ICSA Acquired: 3/15/2010 13:54:52 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: ICSA Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0057993	-.000608	.0082071	.0073896	-.000645	230.6893	.0003076
Stddev	.0040745	.001125	.0004806	.0028399	.001064	.1381	.0005216
%RSD	70.25948	185.2344	5.855747	38.43082	164.9790	.0598539	169.5938
#1	.0029181	-.001403	.0078672	.0053815	-.001397	230.5917	.0006764
#2	.0086804	.000188	.0085469	.0093977	.000107	230.7869	-.000061

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0011986	.0036707	225.9286	.0438180	.0052925	.0197995	88.38534
Stddev	.0000667	.0000866	.6310	.0010982	.0000189	.0004256	.09522
%RSD	5.564388	2.359206	.2793023	2.506227	.3563593	2.149593	.1077327
#1	.0011514	.0037319	225.4824	.0430414	.0052792	.0201005	88.31801
#2	.0012457	.0036095	226.3748	.0445945	.0053059	.0194986	88.45267

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0188672	237.4539	.0209804	-.000764	.7072571	.0022920	.0313271
Stddev	.0003769	.6617	.0000416	.000035	.0175927	.0003046	.0020511
%RSD	1.997759	.2786612	.1984541	4.551041	2.487457	13.29122	6.547547
#1	.0191337	236.9860	.0209509	-.000740	.7196971	.0025074	.0327775
#2	.0186007	237.9218	.0210098	-.000789	.6948172	.0020766	.0298767

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.031582	.0562787	-.040088	-.000205	.0498532	-.012207	-.001509
Stddev	.023773	.0016171	.002348	.000024	.0003798	.007603	.000509
%RSD	75.27474	2.873430	5.858144	11.60491	.7618634	62.28128	33.73604
#1	-.014772	.0551352	-.038427	-.000222	.0495846	-.006831	-.001149
#2	-.048392	.0574222	-.041748	-.000188	.0501218	-.017583	-.001869

Sample Name: ICSA Acquired: 3/15/2010 13:54:52 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: ICSA Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	Ti3361	Li6707
Units	ppm	ppm
Avg	-.007157	.0017090
Stddev	.000741	.0001828
%RSD	10.35734	10.69544
#1	-.006633	.0015798
#2	-.007681	.0018383

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	297.4672	3651.893	83290.74	14766.19	4249.739
Stddev	.3205	27.778	723.06	43.99	31.155
%RSD	.1077326	.7606349	.8681164	.2979059	.7331064
#1	297.6938	3632.251	83802.03	14735.09	4227.710
#2	297.2405	3671.535	82779.46	14797.30	4271.770

Sample Name: ICSAB Acquired: 3/15/2010 13:57:14 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: ICSAB Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0985991	.0911435	.0530077	.0551266	.5602677	226.9753	.4423526
Stddev	.0038868	.0000547	.0012220	.0006235	.0024454	2.0344	.0043249
%RSD	3.942027	.0599680	2.305286	1.131027	.4364650	.8963182	.9777027
#1	.0958508	.0911048	.0521436	.0555675	.5585385	228.4139	.4454107
#2	.1013475	.0911821	.0538717	.0546857	.5619968	225.5368	.4392944

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4568502	.9524313	223.8957	.5255398	.4660336	.4777707	87.29171
Stddev	.0045657	.0043724	1.8392	.0424310	.0030978	.0021877	.80247
%RSD	.9993965	.4590795	.8214555	8.073786	.6647159	.4578899	.9192931
#1	.4600786	.9493395	225.1962	.5555430	.4638431	.4793176	87.85914
#2	.4536217	.9555231	222.5952	.4955366	.4682241	.4762238	86.72428

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4555778	234.6274	.9425911	.1877434	.8269726	.4754473	.9097587
Stddev	.0069493	1.8300	.0062502	.0141462	.0043558	.0099422	.0086914
%RSD	1.525375	.7799395	.6630912	7.534867	.5267219	2.091132	.9553543
#1	.4604917	235.9214	.9381715	.1977463	.8238926	.4824775	.9159045
#2	.4506639	233.3335	.9470107	.1777406	.8300526	.4684171	.9036129

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.111241	.0326222	-.040674	-.000242	.0490329	-.016109	-.003316
Stddev	.012063	.0021081	.001631	.000051	.0018221	.003459	.000259
%RSD	10.84360	6.462068	4.009424	21.04011	3.716119	21.46952	7.820770
#1	-.102712	.0341129	-.041827	-.000206	.0503214	-.013664	-.003133
#2	-.119771	.0311316	-.039521	-.000278	.0477445	-.018555	-.003499

Sample Name: ICSAB Acquired: 3/15/2010 13:57:14 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: ICSAB Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	Ti3361	Li6707
Units	ppm	ppm
Avg	-.005733	.0016525
Stddev	.000013	.0000223
%RSD	.2251460	1.351860
#1	-.005742	.0016367
#2	-.005724	.0016683

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	294.0722	3716.249	83391.54	14783.13	4328.583
Stddev	4.4234	14.773	5984.98	167.47	19.395
%RSD	1.504178	.3975235	7.176959	1.132814	.4480639
#1	290.9444	3726.695	79159.52	14664.71	4342.298
#2	297.2000	3705.803	87623.55	14901.54	4314.869

Sample Name: CCV Acquired: 3/15/2010 13:59:31 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: CCV Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.592855	4.643994	F4.414490	F4.461453	4.529988	9.105318
Stddev	.008771	.011520	.017245	.015580	.006155	.007051
%RSD	.1909725	.2480562	.3906397	.3492176	.1358614	.0774410
#1	4.599057	4.652140	4.426684	4.472469	4.534340	9.100332
#2	4.586653	4.635848	4.402296	4.450436	4.525636	9.110304

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F8.532989	F.2249442	2.321311	F22.49395	.9728358	2.292092
Stddev	.038391	.0003854	.004588	.14216	.0011630	.003387
%RSD	.4499181	.1713155	.1976374	.6319862	.1195437	.1477809
#1	8.505842	.2246717	2.324555	22.39342	.9736582	2.294487
#2	8.560136	.2252166	2.318067	22.59447	.9720135	2.289696

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.147590	4.552390	F2.217790	22.62910	2.253266	F1.071537
Stddev	.003493	.005220	.012584	.17372	.005749	.002177
%RSD	.3044032	.1146719	.5674153	.7676953	.2551248	.2031426
#1	1.145120	4.548699	2.208892	22.50626	2.257331	1.069998
#2	1.150060	4.556081	2.226688	22.75194	2.249201	1.073077

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	22.60545	2.500630	F2.137509	F22.41573	4.401120	F4.408921
Stddev	.12290	.001804	.004250	.01002	.021482	.017338
%RSD	.5436882	.0721332	.1988274	.0446950	.4880998	.3932440
#1	22.51854	2.499354	2.134504	22.40865	4.416310	4.396662
#2	22.69235	2.501905	2.140514	22.42281	4.385930	4.421181

Sample Name: CCV Acquired: 3/15/2010 13:59:31 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: CCV Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.680894	4.318743	4.497832	4.555326	4.485822	F4.489062
Stddev	.015930	.014659	.028231	.014640	.003398	.011674
%RSD	.3403135	.3394350	.6276568	.3213916	.0757454	.2600596
#1	4.692158	4.329109	4.477870	4.565678	4.483419	4.497317
#2	4.669630	4.308378	4.517795	4.544974	4.488224	4.480807

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	314.1478	4063.364	92616.11	15441.77	5023.726
Stddev	.1082	14.723	21.25	9.15	21.731
%RSD	.0344566	.3623450	.0229468	.0592229	.4325607
#1	314.2243	4052.953	92601.08	15448.23	5008.360
#2	314.0712	4073.775	92631.14	15435.30	5039.092

Sample Name: CCB Acquired: 3/15/2010 14:01:43 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: CCB Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0048175	.0079401	.0034632	.0030405	.0022202	.0179877	.0049304
Stddev	.0001427	.0009529	.0015323	.0004910	.0004567	.0000961	.0004268
%RSD	2.961724	12.00056	44.24463	16.14923	20.56888	.5341072	8.656478
#1	.0047167	.0086139	.0045467	.0026933	.0018973	.0180556	.0052322
#2	.0049184	.0072663	.0023797	.0033877	.0025431	.0179198	.0046286

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001771	.0019789	.0600221	.0007913	.0020070	-.000138	.0122932
Stddev	.0001140	.0000688	.0019550	.0000780	.0000255	.000062	.0008568
%RSD	64.38654	3.475298	3.257073	9.857469	1.269088	45.22287	6.969553
#1	.0002578	.0019303	.0614045	.0008465	.0019890	-.000094	.0116874
#2	.0000965	.0020276	.0586398	.0007362	.0020250	-.000182	.0128991

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0018723	.0610706	.0018003	.0009698	.0219123	.0021337	.0032367
Stddev	.0001096	.0112413	.0000662	.0003512	.0314406	.0000882	.0000347
%RSD	5.854488	18.40704	3.676576	36.20747	143.4837	4.134337	1.071035
#1	.0019498	.0690194	.0018471	.0012181	-.000320	.0021961	.0032122
#2	.0017948	.0531218	.0017535	.0007215	.044144	.0020713	.0032613

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0781815	.0051173	.0114505	.0069198	.0015303	.0040199	.0042601
Stddev	.0127211	.0019321	.0020560	.0012912	.0000235	.0010485	.0005299
%RSD	16.27129	37.75638	17.95542	18.65920	1.533437	26.08156	12.43970
#1	.0691863	.0064836	.0129043	.0078328	.0015469	.0032785	.0046348
#2	.0871767	.0037511	.0099967	.0060068	.0015137	.0047612	.0038853

Sample Name: CCB Acquired: 3/15/2010 14:01:43 Type: Unk
Method: ILM05.4_(v384) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: CCB Custom ID2: Custom ID3:
Comment: INSTRUMENT ID : P5

Elem	Ti3361	Li6707
Units	ppm	ppm
Avg	.0035066	.0010250
Stddev	.0001481	.0002935
%RSD	4.222275	28.63290
#1	.0036113	.0008174
#2	.0034019	.0012325

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	304.2612	3886.711	92859.45	14771.45	5126.089
Stddev	2.7596	31.238	216.35	150.87	41.105
%RSD	.9069821	.8037136	.2329828	1.021361	.8018726
#1	306.2126	3864.622	92706.47	14878.14	5097.023
#2	302.3099	3908.799	93012.43	14664.77	5155.154

CHEMTECH

284 Sheffield Street Mountainside, NJ 07092

ICP-5(P5) ANALYSIS RUN LOG

METHOD: ILM05.4 PROJECT No: B1560 B1582

RUN ID: LB48956 DATE: 03 / 15 / 10 ANALYST: D. Cogulli SUPERVISOR REVIEW S. Jasual

QC/SAMPLE ID	ANALYSIS TIME	STD. REF. No. from Prep. Log	LBP #	PREP DATE	DATE OPENED	COMMENT
S0		MI17328	11	3/2/10		
S		MI17330	11	3/2/10		
ICV		MI17332	12	3/2/10		
ICB		MI17328	11	3/2/10		
CRI		MI17333	12	3/2/10		
ICSA		MI17334	13	3/2/10		
ICSAB		MI17335	13	3/2/10		
CCV		MI17331	12	3/2/10		
CCB		MI17328	11	3/2/10		

QC/SAMPLE ID	CLIENT ID	ANALYSIS TIME	DILUTION FACTOR	COMMENTS
CCV				
CCB				

ANALYSIS START TIME: 11:01 DATE: 3/15/10 ANALYSIS END TIME: 14:01 DATE: 3/15/10

Document Control # A3040152
Rev 1/2003

Page 1 of 1

P5 auto sample sequence LB48956

	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Custom ID1	Custom ID2
1	1	1	1	1	Unk	ICV	INSTRUMENT ID : P5	ICV	
2	2	1	2	1	Unk	ICB	INSTRUMENT ID : P5	ICB	
3	3	1	3	1	Unk	CRI	INSTRUMENT ID : P5	CRI	
4	4	1	4	1	Unk	ICSA	INSTRUMENT ID : P5	ICSA	
5	5	1	5	1	Unk	ICSAB	INSTRUMENT ID : P5	ICSAB	
6	6	1	6	1	Unk	CCV	INSTRUMENT ID : P5	CCV	
7	7	1	7	1	Unk	CCB	INSTRUMENT ID : P5	CCB	
8	8	1	8	1	Unk	PB48189BL	INSTRUMENT ID : P5	PBW	
9	9	1	9	1	Unk	PB48189BS	INSTRUMENT ID : P5	LCSW	
10	10	1	10	1	Unk	B1560-01	INSTRUMENT ID : P5	MF3FX7	
11	11	1	11	1	Unk	B1560-02	INSTRUMENT ID : P5	MF3FY1	
12	12	1	12	1	Unk	B1560-03	INSTRUMENT ID : P5	MF3FY2	
13	13	1	1	2	Unk	B1560-04	INSTRUMENT ID : P5	MF3FY3	
14	14	1	2	2	Unk	B1560-04LX5	INSTRUMENT ID : P5	MF3FY3L	
15	15	1	3	2	Unk	B1560-05	INSTRUMENT ID : P5	MF3FY3D	
16	16	1	4	2	Unk	B1560-06	INSTRUMENT ID : P5	MF3FY3S	
17	17	1	5	2	Unk	B1560-07	INSTRUMENT ID : P5	MF3FY4	
18	18	1	6	2	Unk	CCV	INSTRUMENT ID : P5	CCV	
19	19	1	7	2	Unk	CCB	INSTRUMENT ID : P5	CCB	
20	20	1	8	2	Unk	B1560-08	INSTRUMENT ID : P5	MF3FZ0	
21	21	1	9	2	Unk	B1560-09	INSTRUMENT ID : P5	MF3FZ1	
22	22	1	10	2	Unk	PB48205BL	INSTRUMENT ID : P5	PBW	
23	23	1	11	2	Unk	PB48205BS	INSTRUMENT ID : P5	LCSW	
24	24	1	12	2	Unk	B1560-10	INSTRUMENT ID : P5	MF3FX8	
25	25	1	1	3	Unk	B1560-11	INSTRUMENT ID : P5	MF3FX9	
26	26	1	2	3	Unk	B1560-12	INSTRUMENT ID : P5	MF3FY6	
27	27	1	3	3	Unk	CRI	INSTRUMENT ID : P5	CRI	
28	28	1	4	3	Unk	ICSA	INSTRUMENT ID : P5	ICSA	
29	29	1	5	3	Unk	ICSAB	INSTRUMENT ID : P5	ICSAB	
30	30	1	6	3	Unk	CCV	INSTRUMENT ID : P5	CCV	
31	31	1	7	3	Unk	CCB	INSTRUMENT ID : P5	CCB	
32	32	1	8	3	Unk	B1560-13	INSTRUMENT ID : P5	MF3FY7	
33	33	1	9	3	Unk	B1560-14	INSTRUMENT ID : P5	MF3FZ2	
34	34	1	10	3	Unk	B1560-15	INSTRUMENT ID : P5	MF3FZ3	
35	35	1	11	3	Unk	B1560-16	INSTRUMENT ID : P5	MF3FZ5	
36	36	1	12	3	Unk	B1560-17	INSTRUMENT ID : P5	MF3FZ6	
37	37	1	1	4	Unk	PB48236BL	INSTRUMENT ID : P5	PBW	
38	38	1	2	4	Unk	PB48236BS	INSTRUMENT ID : P5	LCSW	
39	39	1	3	4	Unk	B1560-18	INSTRUMENT ID : P5	MF3FY0	
40	40	1	4	4	Unk	B1560-19	INSTRUMENT ID : P5	MF3FY8	
41	41	1	5	4	Unk	B1560-20	INSTRUMENT ID : P5	MF3FZ8	
42	42	1	6	4	Unk	CCV	INSTRUMENT ID : P5	CCV	
43	43	1	7	4	Unk	CCB	INSTRUMENT ID : P5	CCB	
44	44	1	8	4	Unk	B1560-21	INSTRUMENT ID : P5	MF3G01	
45	45	1	9	4	Unk	PB48240BL	INSTRUMENT ID : P5	PBW	
46	46	1	10	4	Unk	PB48240BS	INSTRUMENT ID : P5	LCSW	
47	47	1	11	4	Unk	B1582-01	INSTRUMENT ID : P5	MY5Y09	
48	48	1	12	4	Unk	B1582-02	INSTRUMENT ID : P5	MY5Y10	
49	49	1	1	5	Unk	B1582-03	INSTRUMENT ID : P5	MY5Y11	
50	50	1	2	5	Unk	B1582-04	INSTRUMENT ID : P5	MY5Y12	
51	51	1	3	5	Unk	CRI	INSTRUMENT ID : P5	CRI	
52	52	1	4	5	Unk	ICSA	INSTRUMENT ID : P5	ICSA	
53	53	1	5	5	Unk	ICSAB	INSTRUMENT ID : P5	ICSAB	
54	54	1	6	5	Unk	CCV	INSTRUMENT ID : P5	CCV	
55	55	1	7	5	Unk	CCB	INSTRUMENT ID : P5	CCB	
56	56	1	8	5	Unk	B1582-05	INSTRUMENT ID : P5	MY5Y13	
57	57	1	9	5	Unk	B1582-06	INSTRUMENT ID : P5	MY5Y14	
58	58	1	10	5	Unk	B1582-07	INSTRUMENT ID : P5	MY5Y15	
59	59	1	11	5	Unk	B1582-08	INSTRUMENT ID : P5	MY5Y16	
60	60	1	12	5	Unk	B1582-09	INSTRUMENT ID : P5	MY5Y17	
61	61	2	1	1	Unk	B1582-10	INSTRUMENT ID : P5	MY5Y17D	
62	62	2	2	1	Unk	B1582-11	INSTRUMENT ID : P5	MY5Y17S	

page 1 of 2

P5 autosampler sequence L848956

	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Custom ID1	Custom ID2
63	63	2	3	1	Unk	B1582-12	INSTRUMENT ID : P5	MY5Y18	
64	64	2	4	1	Unk	B1582-13	INSTRUMENT ID : P5	MY5Y18D	
65	65	2	5	1	Unk	B1582-14	INSTRUMENT ID : P5	MY5Y18S	
66	66	2	6	1	Unk	CCV	INSTRUMENT ID : P5	CCV	Ag failed - not error.
67	67	2	7	1	Unk	CCB	INSTRUMENT ID : P5	CCB	
68	68	2	8	1	Unk	B1582-09LX5	INSTRUMENT ID : P5	MY5Y17L	
69	69	2	9	1	Unk	B1582-12LX5	INSTRUMENT ID : P5	MY5Y18L	
70	70	2	10	1	Unk	B1560-04A	INSTRUMENT ID : P5	MF3FY3A	Fe 3.68PPM
71	71	2	11	1	Unk	ZZZZZZ	INSTRUMENT ID : P5	ZZZZZZ	
72	72	2	12	1	Unk	CRI	INSTRUMENT ID : P5	CRI	
73	73	2	1	2	Unk	ICSA	INSTRUMENT ID : P5	ICSA	
74	74	2	2	2	Unk	ICSAB	INSTRUMENT ID : P5	ICSAB	
75	75	2	3	2	Unk	CCV	INSTRUMENT ID : P5	CCV	Pb Se Ba Be Ca Mn Ag
76	76	2	4	2	Unk	CCB	INSTRUMENT ID : P5	CCB	Zn K failed

not error

page 2 of 2

CHEMTECH 284 Sheffield Street, Mountainside NJ 07092

ICAP-5 LOGBOOK

DATE	RUN ID	PROJECT #:	ANALYST	COMMENT
3/4/10	LB48822	B1472	D. Ku	—
3/8/10	LB48849	B1523 B1479 B1471	D. Ku	—
3/9/10	LB48872	B1501 B1502	D. Ku	—
3/15/10	LB48950	B1560 B1582	D. Ku	—

CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 (908) 789-8900

Inorganic Standard Preparation Log

Standard Name	Chemtech Prep. Log #	Preparation Date	Expiration Date	Signature
5-1-HCl	MI17001	12/01/09	06/31/10	A. Patel
Stock Log #	Volume Used mL of Stock	Reagent Log # and Description	Volume Used mL of Reagent	Final Volume
CONC HCl	100 ml	MR 2127		2000mL
				A.P. 12/01/09

Standard Name	Chemtech Prep. Log #	Preparation Date	Expiration Date	Signature
CAL. BLANK (50/ICB/CCB)	MI17002	12/01/09	12/30/09	[illegible]
Stock Log #	Volume Used mL of Stock	Reagent Log # and Description	Volume Used mL of Reagent	Final Volume
DI WATER +		C. HNO3 (MR2130)	50mL	5000mL
—	—	C. HCl (MR2127)	250 mL	
			12/01/09	

Standard Name	Chemtech Prep. Log #	Preparation Date	Expiration Date	Signature
CRI SOL. (STOCK)	MI17003	12/01/09	05/30/10	[illegible]
Stock Log #	Volume Used mL of Stock	Reagent Log # and Description	Volume Used mL of Reagent	Final Volume
MM1823, MM1825 MM1831, MM1834 MM1838	0.2mL EACH	MI17002 used to make		200 mL
MM1824, MM1833	0.5mL EACH	Final Volume		
MM1829, MM1844	0.1mL EACH			
MM1822, MM1841	1.2mL EACH			
MM1832, MM1840	1.0 mL EACH			
MM1835 — 0.3mL MM1826 — 0.7mL MM1837 — 0.8mL			12/01/09	

 Supervisor Review: D. Ki Date: 12/1/09

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Inorganic Standard Preparation Log

Standard Name	Chemtech Prep. Log #	Preparation Date	Expiration Date	Signature
Cal BLK (SOL ICB/CCB)	MI17328	3/2/10	9/1/10	D. [illegible]
Stock Log #	Volume Used mL of Stock	Reagent Log # and Description	Volume Used mL of Reagent	Final Volume
DI water +	50 ml 250 ml	C. HNO3 (MR 2159) C. HCl (MR 2126)	50 ml 250 ml	5000 mL

Standard Name	Chemtech Prep. Log #	Preparation Date	Expiration Date	Signature
Rinse soln	MI17329	3/2/10	9/1/10	D. [illegible]
Stock Log #	Volume Used mL of Stock	Reagent Log # and Description	Volume Used mL of Reagent	Final Volume
DI water +	C. HNO3 (MR 2130)		100 ml	5000 mL

Standard Name	Chemtech Prep. Log #	Preparation Date	Expiration Date	Signature
Std S	MI17330	3/2/10	5/30/10	D. [illegible]
Stock Log #	Volume Used mL of Stock	Reagent Log # and Description	Volume Used mL of Reagent	Final Volume
MM1751 MM1752	5 ml 5 ml	MI17328 used to make final volume		500 mL
MM1822 MM1768	5 ml 5 ml			
MM1770 MM1764	5 ml 5 ml			
MM1538	0.5 ml			

CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 (908) 789-8900

Inorganic Standard Preparation Log

Standard Name	Chemtech Prep. Log #	Preparation Date	Expiration Date	Signature
CW	MI17331	3/2/10	5/30/10	D. [illegible]
Stock Log #	Volume Used mL of Stock	Reagent Log # and Description	Volume Used mL of Reagent	Final Volume
MM1751 MM1752	5ml 5ml	MI17328 used to make		1000 mL
MM1822 MM1768	5ml 5ml	final volume		
MM1770 MM1764	5ml 5ml	↓		
MM1538	0.5ml			

Standard Name	Chemtech Prep. Log #	Preparation Date	Expiration Date	Signature
ICW	MI17332	3/2/10	4/1/10	D. [illegible]
Stock Log #	Volume Used mL of Stock	Reagent Log # and Description	Volume Used mL of Reagent	Final Volume
MM1781	5ml	MI17328 used to make		50 mL
		final volume		

Standard Name	Chemtech Prep. Log #	Preparation Date	Expiration Date	Signature
CRI	MI17333	3/2/10	5/30/10	D. [illegible]
Stock Log #	Volume Used mL of Stock	Reagent Log # and Description	Volume Used mL of Reagent	Final Volume
MI17003	2ml	MI17328 used to make final volume		200 mL

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Inorganic Standard Preparation Log

Standard Name	Chemtech Prep. Log #	Preparation Date	Expiration Date	Signature
ICSA	MI17334	3/2/10	4/1/10	D. [illegible]
Stock Log #	Volume Used mL of Stock	Reagent Log # and Description	Volume Used mL of Reagent	Final Volume
MM1791	10 ml	MI17328 used to make final volume		100 mL

Standard Name	Chemtech Prep. Log #	Preparation Date	Expiration Date	Signature
ICSAB	MI17335	3/2/10	4/1/10	D. [illegible]
Stock Log #	Volume Used mL of Stock	Reagent Log # and Description	Volume Used mL of Reagent	Final Volume
MM1791	10 ml	MI17328 used to make final volume		100 mL
MM1796	10 ml			

Standard Name	Chemtech Prep. Log #	Preparation Date	Expiration Date	Signature
Int. Std Soln	MI17336	3/2/10	5/30/10	D. [illegible]
Stock Log #	Volume Used mL of Stock	Reagent Log # and Description	Volume Used mL of Reagent	Final Volume
MM1743	1 ml	C. HNO_3 (HR2156)	20 ml	2000 mL
MM1845	10 ml	↓		

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MM1751 R:8/23/09

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ACCREDITED Testing Laboratory Certificate 863 01 — ACCREDITED Reference Material Producer Certificate 863 02

2.0 DESCRIPTION OF CRM Stock Solution

Catalog No.: CLPP-CAL-1

Lot Number: **A2-MEB236013**

Matrix: 5% HNO3(abs)

5,000.00 µg/mL ea:
Ca, K, Mg, Na,

2,000.00 µg/mL ea:
Al, Ba,

1,000.00 µg/mL ea:
Fe,

500.00 µg/mL ea:
Co, Mn, Ni, V, Zn,

250.00 µg/mL ea:
Ag, Cu,

200.00 µg/mL ea:
Cr3,

50.00 µg/mL ea:
Be

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ELEMENT	CERTIFIED VALUE	ELEMENT	CERTIFIED VALUE	ELEMENT	CERTIFIED VALUE
Aluminum, Al	2,004 ± 10 µg/mL	Barium, Ba	2,000 ± 3 µg/mL	Beryllium, Be	50.02 ± 0.10 µg/mL
Calcium, Ca	5,006 ± 13 µg/mL	Chromium+3, Cr3	200.0 ± 0.7 µg/mL	Cobalt, Co	500.0 ± 1.1 µg/mL
Copper, Cu	250.5 ± 0.5 µg/mL	Iron, Fe	1,000 ± 2 µg/mL	Magnesium, Mg	4,996 ± 17 µg/mL
Manganese, Mn	500.1 ± 1.1 µg/mL	Nickel, Ni	499.1 ± 1.7 µg/mL	Potassium, K	5,013 ± 9 µg/mL
Silver, Ag	250.0 ± 0.2 µg/mL	Sodium, Na	5,001 ± 23 µg/mL	Vanadium, V	500.4 ± 1.3 µg/mL
Zinc, Zn	500.2 ± 1.8 µg/mL				

Certified Density: 1.127 g/mL (measured at 22° C)

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MM1752 R: 8/03/08

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ACCREDITED Testing Laboratory Certificate 863.01 — ACCREDITED Reference Material Producer Certificate 863.02

2.0 DESCRIPTION OF CRM Stock Solution

Catalog No.: CLPP-CAL-3

Lot Number: B2-MEB236097

Matrix: 7% HNO_3(v/v)

1,000.00 µg/mL ea:
As, Pb, Se, Tl,

500.00 µg/mL ea:
Cd

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ELEMENT	CERTIFIED VALUE	ELEMENT	CERTIFIED VALUE	ELEMENT	CERTIFIED VALUE
Arsenic, As	1,000 ± 3 µg/mL	Cadmium, Cd	499.7 ± 1.2 µg/mL	Lead, Pb	999 ± 4 µg/mL
Selenium, Se	997 ± 10 µg/mL	Thallium, Tl	997 ± 2 µg/mL		

Certified Density: 1.045 g/mL (measured at 22° C)

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Certified Value $(\bar{x}) = \frac{\Sigma x_i}{n}$

Uncertainty $(\pm) = \frac{2[(\Sigma s_i)^2]^{1/2}}{(n)^{1/2}}$

$(\bar{x})$ = mean
x_i = individual results
n = number of measurements
Σs_i = The summation of all significant estimated errors (Most common are the errors from instrumental measurement, weighing, dilution to volume, and the fixed error reported on the NIST SRM certificate of analysis.)

4.0 TRACEBILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS

"Property of the result of a measurement or the value of a standard whereby it can be related to stated references, usually national or international standards, through an unbroken chain of comparisons all having stated uncertainties." (ISO VIM, 2nd ed., 1993, definition 6.10)

This product is Traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRMs are available, the term 'in-house std.' is specified.

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R: 11/27/08

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MM 1822

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ACCREDITED Testing Laboratory Certificate 853.01 — ACCREDITED Reference Material Producer Certificate 853.02

2.0 DESCRIPTION OF CRM

1000 µg/mL Antimony in HF in 2% v/v HNO3 / tr. HF	
Catalog Number:	CGSBF1-1, CGSBF1-2, and CGSBF1-5
Lot Number:	**C2-SB02120**
Starting Material:	Sb shot
Starting Material Purity (%):	99.999512
Starting Material Lot No:	D29N32
Matrix:	2% v/v HNO3 / tr. HF

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Concentration: 993 ± 3 µg/mL

Certified Density: 1.010 g/mL (measured at 22° C)

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Certified Value $(\bar{x}) = \frac{\Sigma x_i}{n}$

Uncertainty $(\pm) = \frac{2[(\Sigma s_i)^2]^{1/2}}{(n)^{1/2}}$

$(\bar{x})$ = mean
x_i = individual results
n = number of measurements
Σs_i = The summation of all significant estimated errors (Most common are the errors from instrumental measurement, weighing, dilution to volume, and the fixed error reported on the NIST SRM certificate of analysis.)

4.0 TRACEABILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS

- "Property of the result of a measurement or the value of a standard whereby it can be related to stated references, usually national or international standards, through an unbroken chain of comparisons all having stated uncertainties." (ISO VIM, 2nd ed., 1993, definition 6.10)
- This product is Traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRMs are available, the term 'in-house std.' is specified.

4.1 Assay Method #1 **993 ± 3 µg/mL (avg. of 2 runs)**
ICP Assay NIST SRM 3102A Lot Number: 061229

Assay Method #2 **1000 ± 5 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

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MM1768 R: 08/17/08

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ACCREDITED Testing Laboratory Certificate 863.01

ACCREDITED Reference Material Producer Certificate 863.02

2.0 DESCRIPTION OF CRM Custom Solution

Catalog No.: CHEM-CLP-4

Lot Number: C2-MEB303121

Matrix: 0.7% HF(v/v), 3% HNO3(v/v)

1,000.00 µg/mL ea:
B, Mo, Si, Sn, Ti

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ELEMENT	CERTIFIED VALUE	ELEMENT	CERTIFIED VALUE	ELEMENT	CERTIFIED VALUE
Boron, B	999 ± 4 µg/mL	Molybdenum, Mo	998 ± 4 µg/mL	Silicon, Si	1,000 ± 4 µg/mL
Tin, Sn	999 ± 3 µg/mL	Titanium, Ti	999 ± 3 µg/mL		

Certified Density: 1.026 g/mL (measured at 22° C)

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Certified Value $(\bar{x}) = \frac{\Sigma x_i}{n}$

Uncertainty $(\pm) = \frac{2[(\Sigma s_i)^2]^{1/2}}{(n)^{1/2}}$

$(\bar{x})$ = mean
x_i = individual results
n = number of measurements
Σs_i = The summation of all significant estimated errors (Most common are the errors from instrumental measurement, weighing, dilution to volume, and the fixed error reported on the NIST SRM certificate of analysis.)

4.0 TRACEBILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS

"Property of the result of a measurement or the value of a standard whereby it can be related to stated references, usually national or international standards, through an unbroken chain of comparisons all having stated uncertainties." (ISO VIM, 2nd ed., 1993, definition 6.10)

This product is Traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRMs are available, the term 'in-house std.' is specified.

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R: 9/16/08

mm1770

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ACCREDITED Testing Laboratory Certificate 863.01 · ACCREDITED Reference Material Producer Certificate 863.02

2.0 **DESCRIPTION OF CRM** **1000 µg/mL Phosphorus in H2O**

Catalog Number:	CGP1-1, CGP1-2, and CGP1-5
Lot Number:	C2-P02019
Starting Material:	H3PO4
Starting Material Purity (%):	99.999976
Starting Material Lot No:	A08806
Matrix:	H2O

3.0 **CERTIFIED VALUES AND UNCERTAINTIES**

Certified Concentration: 1,003 ± 2 µg/mL

Certified Density: 1.000 g/mL (measured at 22° C)

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

$$\text{Certified Value } (\bar{x}) = \frac{\Sigma x_i}{n}$$

$$\text{Uncertainty } (\pm) = \frac{2[(\Sigma s_i)^2]^{1/2}}{(n)^{1/2}}$$

$(\bar{x})$ = mean
x_i = individual results
n = number of measurements
Σs_i = The summation of all significant estimated errors (Most common are the errors from instrumental measurement, weighing, dilution to volume, and the fixed error reported on the NIST SRM certificate of analysis.)

4.0 **TRACEABILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS**

"Property of the result of a measurement or the value of a standard whereby it can be related to stated references, usually national or international standards, through an unbroken chain of comparisons all having stated uncertainties." (ISO VIM, 2nd ed., 1993, definition 6.10)

This product is Traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRMs are available, the term 'in-house std.' is specified.

4.1 Assay Method #1 **999 ± 6 µg/mL**
ICP Assay NIST SRM 3139a Lot Number: 060717

Assay Method #2 **1,003 ± 2 µg/mL**
Acidimetric NIST SRM 84k Lot Number: 84k

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MM1764 R: 8/03/08

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ACCREDITED Testing Laboratory Certificate 883.01 — ACCREDITED Reference Material Producer Certificate 883.02

2.0 DESCRIPTION OF CRM **1000 µg/mL Lithium in 0.1% (v/v) HNO3**

Catalog Number:	CGLI1-1, CGLI1-2, and CGLI1-5
Lot Number:	**C2-LI02113**
Starting Material:	Li2CO3
Starting Material Purity (%):	99.997165
Starting Material Lot No:	1123
Matrix:	0.1% (v/v) HNO3

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Concentration: 997 ± 1 µg/mL

Certified Density: 1.005 g/mL (measured at 22° C)

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Certified Value $(\bar{x}) = \frac{\Sigma x_i}{n}$

Uncertainty $(\pm) = \frac{2[(\Sigma s_i)^2]^{1/2}}{(n)^{1/2}}$

$(\bar{x})$ = mean
x_i = individual results
n = number of measurements
Σs_i = The summation of all significant estimated errors (Most common are the errors from instrumental measurement, weighing, dilution to volume, and the fixed error reported on the NIST SRM certificate of analysis.)

4.0 TRACEABILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS

"Property of the result of a measurement or the value of a standard whereby it can be related to stated references, usually national or international standards, through an unbroken chain of comparisons all having stated uncertainties." (ISO VIM, 2nd ed., 1993, definition 6.10)

This product is Traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRMs are available, the term 'in-house std.' is specified.

4.1 Assay Method #1 **994 ± 3 µg/mL**
ICP Assay NIST SRM 3129a Lot Number: 000505

Assay Method #2 **997 ± 1 µg/mL**
Gravimetric NIST SRM Lot Number: See Sec. 4.2

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HIGH-PURITY STANDARDS

MH1538

Certificate of Analysis

Product Description:

Name:	Sulfur
Part number:	10M54-5
Lot number:	0804617
Source Material:	Sulfuric Acid
Material Purity:	99.99+%
Matrix:	H_2O

Certified Value: 10.00 mg/mL ± 0.05 mg/mL

The Certified value is based on gravimetric preparation, and verified against SRM 3154 (lot number 892205) developed by National Institute of Standards and Technology (NIST) via inductively coupled plasma optical emission spectrometry using an internal laboratory-developed method. The uncertainty in the certified value is calculated for a 95% confidence interval.

Reference Values:

Density: 1.0171 g/mL @ 23.1°C

Trace Metal Impurity Scan Analysis by ICP-OES and ICP-MS: The approximate values found in the sulfur standard solution at 1000 µg/mL are reported below in µg/L.

Ag	<0.02	Cu	<0.1	Li	<0.02	Rb	<0.02	Te	<0.02
Al	<0.1	Dy	<0.02	Lu	<0.02	Re	<0.02	Th	<0.02
As	<0.05	Er	<0.02	Mg	<0.5	Rh	<0.02	Ti	<0.02
Au	<0.02	Eu	<0.02	Mn	<0.1	Ru	<0.02	Tl	<0.02
B	<1	Fe	<1	Mo	<0.02	S	M	Tm	<0.02
Ba	<0.02	Ga	<0.02	Na	<1	Sb	<0.02	U	<0.1
Be	<0.02	Gd	<0.02	Nb	<0.02	Sc	<0.02	V	<0.05
Bi	<0.02	Ge	<0.02	Nd	<0.02	Se	<0.1	W	<0.02
Ca	<0.1	Hf	<0.02	Ni	<0.02	Si	<1	Y	<0.02
Cd	<0.02	Ho	<0.02	Os	<0.02	Sm	<0.02	Yb	<0.02
Ce	<0.02	In	<0.02	Pb	<0.05	Sn	<1	Zn	<0.1
Co	<0.05	Ir	<0.02	Pd	<0.02	Sr	<0.02	Zr	<0.02
Cr	<0.1	K	<1	Pr	<0.02	Ta	<0.02		
Cs	<0.02	La	<0.02	Pt	<0.02	Tb	<0.02		

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R: 06/09/07

MM 1743

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2.0 DESCRIPTION OF CRM 10000 µg/mL Yttrium in 2% HNO3 (v/v)

Catalog Number:	CGY10-1, CGY10-2, and CGY10-5
Lot Number:	B2-Y01120
Starting Material:	Y2O3
Starting Material Purity (%):	99.999864
Starting Material Lot No:	0623052
Matrix:	2% HNO3 (v/v)

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Concentration: 10,038 ± 40 µg/mL

Certified Density: 1.043 g/mL (measured at 22° C)

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Certified Value $(\bar{x}) = \frac{\Sigma x_i}{n}$

Uncertainty $(\pm) = \frac{2[(\Sigma s_i)^2]^{1/2}}{(n)^{1/2}}$

$(\bar{x})$ = mean
x_i = individual results
n = number of measurements
Σs_i = The summation of all significant estimated errors (Most common are the errors from instrumental measurement, weighing, dilution to volume, and the fixed error reported on the NIST SRM certificate of analysis.)

4.0 TRACEABILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS

- "Property of the result of a measurement or the value of a standard whereby it can be related to stated references, usually national or international standards, through an unbroken chain of comparisons all having stated uncertainties." (ISO VIM, 2nd ed., 1993, definition 6.10)

: This product is Traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRMs are available, the term 'in-house std.' is specified.

4.1 Assay Method #1 10,029 ± 56 µg/mL
ICP Assay NIST SRM 3167a Lot Number: 790412

Assay Method #2 10,038 ± 40 µg/mL
EDTA NIST SRM 928 Lot Number: 928

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ACCREDITED Testing Laboratory Certificate 863.01

ACCREDITED Reference Material Producer Certificate 863.02

2.0 DESCRIPTION OF CRM

DESCRIPTION OF CRM	**10000 µg/mL Indium in 5% (v/v) HNO3**
Catalog Number:	CGIN10-1, CGIN10-2, and CGIN10-5
Lot Number:	**B2-IN01069**
Starting Material:	In shot
Starting Material Purity (%):	99.999573
Starting Material Lot No:	R305INA1
Matrix:	5% (v/v) HNO3

MH1745

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Concentration: 10,023 ± 31 µg/mL

Certified Density: 1.042 g/mL (measured at 22° C)

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent *expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.*

Certified Value $(\bar{x}) = \frac{\Sigma x_i}{n}$

$(\bar{x})$ = mean
x_i = individual results
n = number of measurements

Uncertainty $(\pm) = \frac{2[(\Sigma s_i)^2]^{1/2}}{(n)^{1/2}}$

Σs_i = *The summation of all significant estimated errors*
(Most common are the errors from instrumental measurement, weighing, dilution to volume, and the fixed error reported on the NIST SRM certificate of analysis.)

4.0 TRACEABILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS

· "Property of the result of a measurement or the value of a standard whereby it can be related to stated references, usually national or international standards, through an unbroken chain of comparisons all having stated uncertainties." (ISO VIM, 2nd ed., 1993, definition 6.10)

· *This product is Traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRMs are available, the term 'in-house std.' is specified.*

4.1 Assay Method #1 **10,069 ± 45 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

Assay Method #2 **10,023 ± 31 µg/mL**
ICP Assay NIST SRM 3124a Lot Number: 991219

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ACCREDITED Reference Material Producer Certificate 883.02

2.0	**DESCRIPTION OF CRM**	**1000 µg/mL Silver in 5% (v/v) HNO3**
	Catalog Number:	CGAG1-1, CGAG1-2, and CGAG1-5
	Lot Number:	C2-AG02042
	Starting Material:	Ag shot
	Starting Material Purity (%):	99.991024
	Starting Material Lot No:	E308AGA1
	Matrix:	5% (v/v) HNO3

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Concentration: 1001 ± 1 µg/mL

Certified Density: 1.024 g/mL (measured at 22° C)

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

$$\text{Certified Value } (\bar{x}) = \frac{\Sigma x_i}{n}$$

$$\text{Uncertainty } (\pm) = \frac{2[(\Sigma s_i)^2]^{1/2}}{(n)^{1/2}}$$

$(\bar{x})$ = mean
x_i = individual results
n = number of measurements
Σs_i = The summation of all significant estimated errors (Most common are the errors from instrumental measurement, weighing, dilution to volume, and the fixed error reported on the NIST SRM certificate of analysis.)

4.0 TRACEABILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS

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4.1	Assay Method #1	**996 ± 5 µg/mL** ICP Assay NIST SRM 3151 Lot Number: 992212
	Assay Method #2	**1001 ± 1 µg/mL** Volhard NIST SRM 999b Lot Number: 999b

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2.0 DESCRIPTION OF CRM 1000 µg/mL Arsenic in 2% (v/v) HNO3

Catalog Number:	CGAS1-1, CGAS1-2, and CGAS1-5
Lot Number:	C2-AS02061
Starting Material:	As pieces
Starting Material Purity (%):	99.999032
Starting Material Lot No:	R1107ASB1
Matrix:	2% (v/v) HNO3

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Concentration: 999 ± 4 µg/mL

Certified Density: 1.011 g/mL (measured at 22° C)

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Certified Value $(\bar{x}) = \frac{\Sigma x_i}{n}$

Uncertainty $(\pm) = \frac{2[(\Sigma s_i)^2]^{1/2}}{(n)^{1/2}}$

$(\bar{x})$ = mean
x_i = individual results
n = number of measurements
Σs_i = The summation of all significant estimated errors (Most common are the errors from instrumental measurement, weighing, dilution to volume, and the fixed error reported on the NIST SRM certificate of analysis.)

4.0 *TRACEABILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS*

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4.1 Assay Method #1 999 ± 4 µg/mL
ICP Assay NIST SRM 3103a Lot Number: 010713

Assay Method #2 1001 ± 5 µg/mL
Calculated NIST SRM Lot Number: See Sec. 4.2

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ACCREDITED Reference Material Producer Certificate 883.02

2.0	DESCRIPTION OF CRM	**1000 µg/mL Selenium(+4) in 2% v/v HNO3**
	Catalog Number:	CGSE(4)1-1, CGSE(4)1-2, and CGSE(4)1-5
	Lot Number:	**C2-SE02008**
	Starting Material:	Se shot
	Starting Material Purity (%):	99.999239
	Starting Material Lot No:	B14A38
	Matrix:	2% v/v HNO3

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Concentration: 1001 ± 4 µg/mL

Certified Density: 1.011 g/mL (measured at 22° C)

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Certified Value $(\bar{x}) = \frac{\Sigma x_i}{n}$

Uncertainty $(\pm) = \frac{2[(\Sigma s_i)^2]^{1/2}}{(n)^{1/2}}$

$(\bar{x})$ = mean
x_i = individual results
n = number of measurements
Σs_i = The summation of all significant estimated errors (Most common are the errors from instrumental measurement, weighing, dilution to volume, and the fixed error reported on the NIST SRM certificate of analysis.)

4.0 TRACEABILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS

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- This product is Traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRMs are available, the term 'in-house std.' is specified.

4.1	Assay Method #1	**1001 ± 4 µg/mL** ICP Assay NIST SRM 3149 Lot Number: 992106
	Assay Method #2	**1001 ± 5 µg/mL** Calculated NIST SRM Lot Number: See Sec. 4.2

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ACCREDITED Reference Material Producer Certificate 883.02

2.0 DESCRIPTION OF CRM 1000 µg/mL Lead in 0.5% (v/v) HNO3

Catalog Number:	CGPB1-1, CGPB1-2, and CGPB1-5
Lot Number:	C2-PB03013
Starting Material:	Pb(NO3)2
Starting Material Purity (%):	99.999554
Starting Material Lot No:	E1007PBA1
Matrix:	0.5% (v/v) HNO3

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Concentration:	1004 ± 4 µg/mL
Certified Density:	1.001 g/mL (measured at 22° C)

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Certified Value $(\bar{x}) = \frac{\Sigma x_i}{n}$

Uncertainty $(\pm) = \frac{2[(\Sigma s_i)^2]^{1/2}}{(n)^{1/2}}$

$(\bar{x})$ = mean
x_i = individual results
n = number of measurements
Σs_i = The summation of all significant estimated errors (Most common are the errors from instrumental measurement, weighing, dilution to volume, and the fixed error reported on the NIST SRM certificate of analysis.)

4.0 TRACEABILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS

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This product is Traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRMs are available, the term 'in-house std.' is specified.

4.1 Assay Method #1 999 ± 5 µg/mL
ICP Assay NIST SRM 3128 Lot Number: 030721

Assay Method #2 1004 ± 4 µg/mL
EDTA NIST SRM 928 Lot Number: 928

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ACCREDITED Reference Material Producer Certificate 883.02

2.0	DESCRIPTION OF CRM	1000 µg/mL Thallium in 0.7% (v/v) HNO3
	Catalog Number:	CGTL1-1, CGTL1-2, and CGTL1-5
	Lot Number:	C2-TL01107
	Starting Material:	TlNO3
	Starting Material Purity (%):	99.999765
	Starting Material Lot No:	P1006TLB2
	Matrix:	0.7% (v/v) HNO3

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Concentration: 1003 ± 2 µg/mL

Certified Density: 1.002 g/mL (measured at 22° C)

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

$$\text{Certified Value } (\bar{x}) = \frac{\Sigma x_i}{n}$$

$$\text{Uncertainty } (\pm) \cong \frac{2[(\Sigma s_i)^2]^{1/2}}{(n)^{1/2}}$$

($\bar{x}$) = mean
x_i = individual results
n = number of measurements
Σs_i = The summation of all significant estimated errors (Most common are the errors from instrumental measurement, weighing, dilution to volume, and the fixed error reported on the NIST SRM certificate of analysis.)

4.0 TRACEABILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS

"Property of the result of a measurement or the value of a standard whereby it can be related to stated references, usually national or international standards, through an unbroken chain of comparisons all having stated uncertainties." (ISO VIM, 2nd ed., 1993, definition 6.10)

This product is Traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRMs are available, the term 'in-house std.' is specified.

4.1	*Assay Method #1*	**1003 ± 2 µg/mL (Avg. of 2 Runs)** ICP Assay NIST SRM 3158 Lot Number: 993012
	Assay Method #2	**1000 ± 5 µg/mL** *Calculated NIST SRM Lot Number: See Sec. 4.2*

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ACCREDITED Testing Laboratory Certificate 863.01 · ACCREDITED Reference Material Producer Certificate 863.02

2.0	DESCRIPTION OF CRM	1000 µg/mL Antimony in HF in 2% v/v HNO3 / tr. HF
	Catalog Number:	CGSBF1-1, CGSBF1-2, and CGSBF1-5
	Lot Number:	C2-SB02120
	Starting Material:	Sb shot
	Starting Material Purity (%):	99.999512
	Starting Material Lot No:	D29N32
	Matrix:	2% v/v HNO3 / tr. HF

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Concentration: 993 ± 3 µg/mL

Certified Density: 1.010 g/mL (measured at 22° C)

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Certified Value $(\bar{x}) = \frac{\Sigma x_i}{n}$

$(\bar{x})$ = *mean*
x_i = *individual results*
n = number of measurements

Uncertainty $(\pm) = \frac{2[(\Sigma s_i)^2]^{1/2}}{(n)^{1/2}}$

Σs_i = The summation of all significant estimated errors (Most common are the errors from instrumental measurement, weighing, dilution to volume, and the fixed error reported on the NIST SRM certificate of analysis.)

4.0 TRACEABILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS

- "Property of the result of a measurement or the value of a standard whereby it can be related to stated references, usually national or international standards, through an unbroken chain of comparisons all having stated uncertainties." (ISO VIM, 2nd ed., 1993, definition 6.10)
- This product is Traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRMs are available, the term 'in-house std.' is specified.

4.1	Assay Method #1	993 ± 3 µg/mL (avg. of 2 runs) ICP Assay NIST SRM 3102A Lot Number: 061229
	Assay Method #2	1000 ± 5 µg/mL Calculated NIST SRM Lot Number: See Sec. 4.2

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ACCREDITED Testing Laboratory Certificate 883.01

ACCREDITED Reference Material Producer Certificate 883.02

2.0 DESCRIPTION OF CRM **10000 µg/mL Aluminum in 7% (v/v) HNO3**

Catalog Number:	CGAL10-1, CGAL10-2, and CGAL10-5
Lot Number:	**C2-AL04079**
Starting Material:	Al ingot
Starting Material Purity (%):	99.998843
Starting Material Lot No:	C14S012
Matrix:	7% (v/v) HNO3

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Concentration: 10061 ± 26 µg/mL

Certified Density: 1.085 g/mL (measured at 22° C)

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Certified Value $(\bar{x}) = \frac{\Sigma x_i}{n}$

Uncertainty $(\pm) = \frac{2[(\Sigma s_i)^2]^{1/2}}{(n)^{1/2}}$

$(\bar{x})$ = mean
x_i = individual results
n = number of measurements
Σs_i = The summation of all significant estimated errors (Most common are the errors from instrumental measurement, weighing, dilution to volume, and the fixed error reported on the NIST SRM certificate of analysis.)

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4.1 Assay Method #1 **10,045 ± 45 µg/mL**
ICP Assay NIST SRM 3101a Lot Number: 060502

Assay Method #2 **10,061 ± 26 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

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ACCREDITED Reference Material Producer Certificate 883.02

2.0	DESCRIPTION OF CRM	1000 µg/mL Barium in tr. HNO3
	Catalog Number:	CGBA1-1, CGBA1-2, and CGBA1-5
	Lot Number:	C2-BA02050
	Starting Material:	Ba(NO3)2
	Starting Material Purity (%):	99.999911
	Starting Material Lot No:	W500A
	Matrix:	tr. HNO3

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Concentration: 1,000 ± 2 µg/mL

Certified Density: 1.000 g/mL (measured at 22° C)

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Certified Value $(\bar{x}) = \frac{\Sigma x_i}{n}$

Uncertainty $(\pm) = \frac{2[(\Sigma s_i)^2]^{1/2}}{(n)^{1/2}}$

$(\bar{x})$ = mean
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n = number of measurements
Σs_i = The summation of all significant estimated errors (Most common are the errors from instrumental measurement, weighing, dilution to volume, and the fixed error reported on the NIST SRM certificate of analysis.)

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4.1	Assay Method #1	999 ± 4 µg/mL ICP Assay NIST SRM 3104a Lot Number: 070222
	Assay Method #2	1,000 ± 2 µg/mL Gravimetric NIST SRM Lot Number: See Sec. 4.2

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ACCREDITED Testing Laboratory Certificate 883 01

ACCREDITED Reference Material Producer Certificate 883 02

2.0	DESCRIPTION OF CRM	1000 µg/mL Beryllium in 3% (v/v) HNO3
	Catalog Number:	CGBE1-1, CGBE1-2, and CGBE1-5
	Lot Number:	C2-BE01124
	Starting Material:	Be(OOCCH3)2
	Starting Material Purity (%):	99.999948
	Starting Material Lot No:	0801-1
	Matrix:	3% (v/v) HNO3

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Concentration: 1003 ± 4 µg/mL

Certified Density: 1.022 g/mL (measured at 22° C)

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Certified Value $(\bar{x}) = \frac{\Sigma x_i}{n}$

$(\bar{x})$ = mean
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n = number of measurements

Uncertainty $(\pm) = \frac{2[(\Sigma s_i)^2]^{1/2}}{(n)^{1/2}}$

Σs_i = The summation of all significant estimated errors (Most common are the errors from instrumental measurement, weighing, dilution to volume, and the fixed error reported on the NIST SRM certificate of analysis.)

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4.1	Assay Method #1	1003 ± 4 µg/mL ICP Assay NIST SRM 3105a Lot Number: 892707
	Assay Method #2	1001 ± 5 µg/mL Calculated NIST SRM Lot Number: See Sec. 4.2

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CERTIFICATE OF ANALYSIS

R: 11/27/09

MM1844

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1.0 INORGANIC VENTURES is an ISO Guide 34 "General Requirements for the Competence of Reference Material Producers" and ISO 9001:2000 registered manufacturer. Our manufacturing laboratory is accredited to ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories."

ACCREDITED Testing Laboratory Certificate 683.01

ACCREDITED Reference Material Producer Certificate 683.02

2.0	DESCRIPTION OF CRM	1000 µg/mL Cadmium in 3% HNO3
	Catalog Number:	CGCD1-1, CGCD1-2, and CGCD1-5
	Lot Number:	C2-CD02018
	Starting Material:	Cd shot
	Starting Material Purity (%):	99.999656
	Starting Material Lot No:	R1205CDA1
	Matrix:	3% HNO3

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Concentration: 999 ± 2 µg/mL

Certified Density: 1.014 g/mL (measured at 22° C)

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Certified Value $(\bar{x}) = \frac{\Sigma x_i}{n}$

Uncertainty $(\pm) = \frac{2[(\Sigma s_i)^2]^{1/2}}{(n)^{1/2}}$

$(\bar{x})$ = mean
x_i = individual results
n = number of measurements
Σs_i = The summation of all significant estimated errors (Most common are the errors from instrumental measurement, weighing, dilution to volume, and the fixed error reported on the NIST SRM certificate of analysis.)

4.0 TRACEABILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS

"Property of the result of a measurement or the value of a standard whereby it can be related to stated references, usually national or international standards, through an unbroken chain of comparisons all having stated uncertainties." (ISO VIM, 2nd ed., 1993, definition 6.10)

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4.1	Assay Method #1	992 ± 3 µg/mL ICP Assay NIST SRM 3108 Lot Number: 060531
	Assay Method #2	999 ± 2 µg/mL EDTA NIST SRM 928 Lot Number: 928

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CERTIFICATE OF ANALYSIS

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ACCREDITED Testing Laboratory Certificate 883.01

ACCREDITED Reference Material Producer Certificate 883.02

2.0 DESCRIPTION OF CRM 10000 µg/mL Iron in 5% (v/v) HNO3

Catalog Number:	CGFE10-1, CGFE10-2, and CGFE10-5
Lot Number:	C2-FE03101
Starting Material:	Fe powder
Starting Material Purity (%):	99.999485
Starting Material Lot No:	R1207FEA1
Matrix:	5% (v/v) HNO3

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Concentration: 10,011 ± 20 µg/mL

Certified Density: 1.064 g/mL (measured at 22° C)

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

$$\text{Certified Value } (\bar{x}) = \frac{\Sigma x_i}{n}$$

$$\text{Uncertainty } (\pm) = \frac{2[(\Sigma s_i)^2]^{1/2}}{(n)^{1/2}}$$

$(\bar{x})$ = mean
x_i = individual results
n = number of measurements
Σs_i = The summation of all significant estimated errors (Most common are the errors from instrumental measurement, weighing, dilution to volume, and the fixed error reported on the NIST SRM certificate of analysis.)

4.0 TRACEABILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS

- "*Property of the result of a measurement or the value of a standard whereby it can be related to stated references, usually* national or international standards, through an unbroken chain of comparisons all having stated uncertainties." (ISO VIM, 2nd ed., 1993, *definition 6.10*)
- This product is Traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are *reported, taking into account the SRM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases* where no NIST SRMs are available, the term 'in-house std.' is specified.

4.1 Assay Method #1 9994 ± 26 µg/mL
ICP Assay NIST SRM 3126a Lot Number: 051031

Assay Method #2 10,011 ± 20 µg/mL
EDTA NIST SRM 928 Lot Number: 928

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ACCREDITED Testing Laboratory Certificate 863.01 — ACCREDITED Reference Material Producer Certificate 863.02

2.0 **DESCRIPTION OF CRM** **1000 µg/mL Chromium (+3) in 2% (v/v) HNO3**

Catalog Number:	CGCR(3)1-1, CGCR(3)1-2, and CGCR(3)1-5
Lot Number:	**C2-CR03023**
Starting Material:	Cr pieces
Starting Material Purity (%):	99.993508
Starting Material Lot No:	R800A
Matrix:	2% (v/v) HNO3

3.0 **CERTIFIED VALUES AND UNCERTAINTIES**

Certified Concentration: 996 ± 2 µg/mL

Certified Density: 1.014 g/mL (measured at 22° C)

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Certified Value $(\bar{x}) = \frac{\Sigma x_i}{n}$

Uncertainty $(\pm) = \frac{2[(\Sigma s_i)^2]^{1/2}}{(n)^{1/2}}$

$(\bar{x})$ = mean
x_i = individual results
n = number of measurements
Σs_i = The summation of all significant estimated errors (Most common are the errors from instrumental measurement, weighing, dilution to volume, and the fixed error reported on the NIST SRM certificate of analysis.)

4.0 **TRACEABILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS**

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4.1 Assay Method #1 **996 ± 2 µg/mL (Avg. of 2 Runs)**
ICP Assay NIST SRM 3112a Lot Number: 030730

Assay Method #2 **1,001 ± 5 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

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ACCREDITED Testing Laboratory Certificate 883.01

ACCREDITED Reference Material Producer Certificate 883.02

2.0	DESCRIPTION OF CRM	1000 µg/mL Cobalt in 3% (v/v) HNO3
	Catalog Number:	CGCO1-1, CGCO1-2, and CGCO1-5
	Lot Number:	C2-CO02022
	Starting Material:	Co powder
	Starting Material Purity (%):	99.997920
	Starting Material Lot No:	PW407COA1
	Matrix:	3% (v/v) HNO3

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Concentration: 995 ± 3 µg/mL

Certified Density: 1.018 g/mL (measured at 22° C)

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent *expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2*

Certified Value $(\bar{x}) = \frac{\Sigma x_i}{n}$

Uncertainty $(\pm) = \frac{2[(\Sigma s_i)^2]^{1/2}}{(n)^{1/2}}$

$(\bar{x})$ = mean
x_i = individual results
n = number of measurements
Σs_i = The summation of all significant estimated errors (Most common are the errors from instrumental measurement, weighing, dilution to volume, and the fixed error reported on the NIST SRM certificate of analysis.)

4.0 TRACEABILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS

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4.1	Assay Method #1	995 ± 3 µg/mL ICP Assay NIST SRM 3113 Lot Number: 00630
	Assay Method #2	1,004 ± 4 µg/mL EDTA NIST SRM 928 Lot Number: 928

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ACCREDITED Testing Laboratory Certificate 883.01

ACCREDITED Reference Material Producer Certificate 883.02

2.0 DESCRIPTION OF CRM **1000 µg/mL Copper in 3% (v/v) HNO3**

Catalog Number:	CGCU1-1, CGCU1-2, and CGCU1-5
Lot Number:	**C2-CU02112**
Starting Material:	Cu shot
Starting Material Purity (%):	99.999779
Starting Material Lot No:	R508CUA2
Matrix:	3% (v/v) HNO3

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Concentration: 999 ± 3 µg/mL

Certified Density: 1.015 g/mL (measured at 22° C)

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Certified Value $(\bar{x}) = \frac{\Sigma x_i}{n}$

$(\bar{x})$ = *mean*
x_i = individual results
n = number of measurements

Uncertainty (±) $= \frac{2[(\Sigma s_i)^2]^{1/2}}{(n)^{1/2}}$

Σs_i = The summation of all significant estimated errors (Most common are the errors from instrumental measurement, weighing, dilution to volume, and the fixed error reported on the NIST SRM certificate of analysis.)

4.0 TRACEABILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS

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4.1 Assay Method #1 **993 ± 3 µg/mL**
ICP Assay NIST SRM 3114 Lot Number: 011017

Assay Method #2 **999 ± 3 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

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ACCREDITED Testing Laboratory Certificate 883 01 — ACCREDITED Reference Material Producer Certificate 883 02

2.0	DESCRIPTION OF CRM	10000 µg/mL Sodium in 2% (v/v) HNO3
	Catalog Number:	CGNA10-1, CGNA10-2, and CGNA10-5
	Lot Number:	C2-NA03064
	Starting Material:	Na2CO3
	Starting Material Purity (%):	99.999644
	Starting Material Lot No:	C181157
	Matrix:	2% (v/v) HNO3

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Concentration: 9993 ± 5 µg/mL

Certified Density: 1.033 g/mL (measured at 22° C)

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Certified Value $(\bar{x}) = \frac{\Sigma x_i}{n}$

Uncertainty $(\pm) = \frac{2[(\Sigma s_i)^2]^{1/2}}{(n)^{1/2}}$

$(\bar{x})$ = mean
x_i = individual results
n = number of measurements
Σs_i = The summation of all significant estimated errors (Most common are the errors from instrumental measurement, weighing, dilution to volume, and the fixed error reported on the NIST SRM certificate of analysis.)

4.0 TRACEABILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS

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4.1	Assay Method #1	9,955 ± 66 µg/mL ICP Assay NIST SRM 3152a Lot Number: 010728
	Assay Method #2	9993 ± 5 µg/mL Gravimetric NIST SRM Lot Number: See Sec. 4.2

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ACCREDITED Testing Laboratory Certificate 883.01

ACCREDITED Reference Material Producer Certificate 883.02

2.0 DESCRIPTION OF CRM

	10000 µg/mL Potassium in 2% (v/v) HNO3
Catalog Number:	CGK10-1, CGK10-2, and CGK10-5
Lot Number:	C2-K03005
Starting Material:	KNO3
Starting Material Purity (%):	99.996914
Starting Material Lot No:	B19P01
Matrix:	2% (v/v) HNO3

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Concentration:	9981 ± 28 µg/mL
Certified Density:	1.024 g/mL (measured at 22° C)

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Certified Value $(\bar{x}) = \frac{\Sigma x_i}{n}$

Uncertainty $(\pm) = \frac{2[(\Sigma s_i)^2]^{1/2}}{(n)^{1/2}}$

$(\bar{x})$ = mean
x_i = individual results
n = number of measurements
Σs_i = The summation of all significant estimated errors (Most common are the errors from instrumental measurement, weighing, dilution to volume, and the fixed error reported on the NIST SRM certificate of analysis.)

4.0 TRACEABILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS

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4.1	Assay Method #1	10,006 ± 52 µg/mL ICP Assay NIST SRM 3141a Lot Number: 051220
	Assay Method #2	9981 ± 28 µg/mL Gravimetric NIST SRM Lot Number: See Sec. 4.2

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ACCREDITED Testing Laboratory Certificate 883.01

ACCREDITED Reference Material Producer Certificate 883.02

2.0	DESCRIPTION OF CRM	1000 µg/mL Cobalt in 3% (v/v) HNO3
	Catalog Number:	CGCO1-1, CGCO1-2, and CGCO1-5
	Lot Number:	C2-CO02022
	Starting Material:	Co powder
	Starting Material Purity (%):	99.997920
	Starting Material Lot No:	PW407COA1
	Matrix:	3% (v/v) HNO3

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Concentration: 995 ± 3 µg/mL

Certified Density: 1.018 g/mL (measured at 22° C)

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Certified Value $(\bar{x}) = \frac{\Sigma x_i}{n}$

Uncertainty $(\pm) = \frac{2[(\Sigma s_i)^2]^{1/2}}{(n)^{1/2}}$

$(\bar{x})$ = mean
x_i = individual results
n = number of measurements
Σs_i = The summation of all significant estimated errors (Most common are the errors from instrumental measurement, weighing, dilution to volume, and the fixed error reported on the NIST SRM certificate of analysis.)

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4.1	Assay Method #1	995 ± 3 µg/mL ICP Assay NIST SRM 3113 Lot Number: 00630
	Assay Method #2	1,004 ± 4 µg/mL EDTA NIST SRM 928 Lot Number: 928

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CERTIFICATE OF ANALYSIS

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ACCREDITED Testing Laboratory Certificate 833.01

ACCREDITED Reference Material Producer Certificate 833.02

2.0 DESCRIPTION OF CRM **1000 µg/mL Vanadium in 2% (v/v) HNO3**

Catalog Number:	CGV1-1, CGV1-2, and CGV1-5
Lot Number:	**C2-V02057**
Starting Material:	V2O5
Starting Material Purity (%):	99.991399
Starting Material Lot No:	Stractor 46
Matrix:	2% (v/v) HNO3

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Concentration: 996 ± 2 µg/mL

Certified Density: 1.014 g/mL (measured at 22° C)

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Certified Value $(\bar{x}) = \frac{\Sigma x_i}{n}$

Uncertainty $(\pm) = \frac{2[(\Sigma s_i)^2]^{1/2}}{(n)^{1/2}}$

$(\bar{x})$ = mean
x_i = individual results
n = number of measurements
Σs_i = The summation of all significant estimated errors (Most common are the errors from instrumental measurement, weighing, dilution to volume, and the fixed error reported on the NIST SRM certificate of analysis.)

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4.1 Assay Method #1 **997 ± 4 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

Assay Method #2 **996 ± 2 µg/mL**
ICP Assay NIST SRM 3165 Lot Number: 992706

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ACCREDITED Testing Laboratory Certificate 883.01 · ACCREDITED Reference Material Producer Certificate 883.02

2.0 DESCRIPTION OF CRM

DESCRIPTION OF CRM	**1000 µg/mL Zinc in 2% (v/v) HNO3**
Catalog Number:	CGZN1-1, CGZN1-2, and CGZN1-5
Lot Number:	**C2-ZN02059**
Starting Material:	Zn shot
Starting Material Purity (%):	99.999385
Starting Material Lot No:	R1207ZNA1
Matrix:	2% (v/v) HNO3

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Concentration: 1,000 ± 3 µg/mL

Certified Density: 1.010 g/mL (measured at 22° C)

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

$$\text{Certified Value } (\bar{x}) = \frac{\Sigma x_i}{n}$$

$(\bar{x})$ = mean
x_i = individual results
n = number of measurements

$$\text{Uncertainty } (\pm) = \frac{2[(\Sigma s_i)^2]^{1/2}}{(n)^{1/2}}$$

Σs_i = *The summation of all significant estimated errors*
(Most common are the errors from instrumental measurement, weighing, dilution to volume, and the fixed error reported on the NIST SRM *certificate of analysis.*)

4.0 TRACEABILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS

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4.1 Assay Method #1 **1,000 ± 3 µg/mL**
ICP Assay NIST SRM 3168a Lot Number: 080123

Assay Method #2 **1,006 ± 3 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

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ACCREDITED Testing Laboratory Certificate 883.01 — ACCREDITED Reference Material Producer Certificate 883.02

2.0	DESCRIPTION OF CRM	1000 µg/mL Nickel in 2% (v/v) HNO3
	Catalog Number:	CGNI1-1, CGNI1-2, and CGNI1-5
	Lot Number:	C2-NI02059
	Starting Material:	Ni pieces
	Starting Material Purity (%):	99.999033
	Starting Material Lot No:	E25T014
	Matrix:	2% (v/v) HNO3

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Concentration: 990 ± 3 µg/mL

Certified Density: 1.010g/mL (measured at 22° C)

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Certified Value $(\bar{x}) = \frac{\Sigma x_i}{n}$

Uncertainty $(\pm) = \frac{2[(\Sigma s_i)^2]^{1/2}}{(n)^{1/2}}$

$(\bar{x})$ = mean
x_i = individual results
n = number of measurements
Σs_i = The summation of all significant estimated errors (Most common are the errors from instrumental measurement, weighing, dilution to volume, and the fixed error reported on the NIST SRM certificate of analysis.)

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- This product is Traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRMs are available, the term 'in-house std.' is specified.

4.1	Assay Method #1	990 ± 3 µg/mL ICP Assay NIST SRM 3136 Lot Number: 000612
	Assay Method #2	995 ± 2 µg/mL EDTA NIST SRM 928 Lot Number: 928

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CERTIFICATE OF ANALYSIS

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ACCREDITED Testing Laboratory Certificate 853.01 — ACCREDITED Reference Material Producer Certificate 853.02

2.0	**DESCRIPTION OF CRM**	**10000 µg/mL Calcium in 2% (v/v) HNO3**
	Catalog Number:	CGCA10-1, CGCA10-2, and CGCA10-5
	Lot Number:	**C2-CA03126**
	Starting Material:	$CaCO_3$
	Starting Material Purity (%):	99.998462
	Starting Material Lot No:	C808CAA1
	Matrix:	2% (v/v) HNO_3

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Concentration: 9,974 ± 30 µg/mL

Certified Density: 1.038 g/mL (measured at 22° C)

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Certified Value $(\bar{x}) = \frac{\Sigma x_i}{n}$

Uncertainty $(\pm) = \frac{2[(\Sigma s_i)^2]^{1/2}}{(n)^{1/2}}$

$(\bar{x})$ = mean
x_i = individual results
n = number of measurements
Σs_i = The summation of all significant estimated errors (Most common are the errors from instrumental measurement, weighing, dilution to volume, and the fixed error reported on the NIST SRM certificate of analysis.)

4.0 TRACEABILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS

"Property of the result of a measurement or the value of a standard whereby it can be related to stated references, usually national or international standards, through an unbroken chain of comparisons all having stated uncertainties." (ISO VIM, 2nd ed., 1993, definition 6.10)

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4.1	Assay Method #1	9,952 ± 36 µg/mL ICP Assay NIST SRM 3109a Lot Number: 050825
	Assay Method #2	9,974 ± 30 µg/mL EDTA NIST SRM 928 Lot Number: 928

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ACCREDITED Testing Laboratory Certificate 883.01

ACCREDITED Reference Material Producer Certificate 883.02

2.0	**DESCRIPTION OF CRM**	**10000 µg/mL Magnesium in 2% (v/v) HNO3**
	Catalog Number:	CGMG10-1, CGMG10-2, and CGMG10-5
	Lot Number:	**C2-MG03078**
	Starting Material:	*Mg metal*
	Starting Material Purity (%):	99.999013
	Starting Material Lot No:	00265067003
	Matrix:	2% (v/v) HNO3

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Concentration: 10,038 ± 30 µg/mL

Certified Density: 1.053 g/mL (measured at 22° C)

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Certified Value $(\bar{x}) = \frac{\Sigma x_i}{n}$

Uncertainty $(\pm) = \frac{2[(\Sigma s_i)^2]^{1/2}}{(n)^{1/2}}$

$(\bar{x})$ = mean
x_i = individual results
n = number of measurements
Σs_i = The summation of all significant estimated errors (Most common are the errors from instrumental measurement, weighing, dilution to volume, and the fixed error reported on the NIST SRM certificate of analysis.)

4.0 TRACEABILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS

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4.1	Assay Method #1	*10,007 ± 32 µg/mL* ICP Assay NIST SRM 3131a Lot Number: 050302
	Assay Method #2	10,038 ± 30 µg/mL EDTA NIST SRM 928 Lot Number: 928

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ACCREDITED Testing Laboratory Certificate 883.01

ACCREDITED Reference Material Producer Certificate 883.02

2.0 DESCRIPTION OF CRM 10000 µg/mL Potassium in 2% (v/v) HNO3

Catalog Number:	CGK10-1, CGK10-2, and CGK10-5
Lot Number:	C2-K03005
Starting Material:	KNO3
Starting Material Purity (%):	99.996914
Starting Material Lot No:	B19P01
Matrix:	2% (v/v) HNO3

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Concentration: 9981 ± 28 µg/mL

Certified Density: 1.024 g/mL (measured at 22° C)

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

$$\text{Certified Value } (\bar{x}) = \frac{\Sigma x_i}{n}$$

$(\bar{x})$ = mean
x_i = individual results
n = number of measurements

$$\text{Uncertainty } (\pm) = \frac{2[(\Sigma s_i)^2]^{1/2}}{(n)^{1/2}}$$

Σs_i = The summation of all significant estimated errors (Most common are the errors from instrumental measurement, weighing, dilution to volume, and the fixed error reported on the NIST SRM certificate of analysis.)

4.0 TRACEABILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS

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4.1 Assay Method #1 10,006 ± 52 µg/mL
ICP Assay NIST SRM 3141a Lot Number: 051220

Assay Method #2 9981 ± 28 µg/mL
Gravimetric NIST SRM Lot Number: See Sec. 4.2

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ACCREDITED Testing Laboratory Certificate 853 01

ACCREDITED Reference Material Producer Certificate 883 02

2.0 DESCRIPTION OF CRM 1000 µg/mL Molybdenum in H2O / tr. NH4OH

Catalog Number:	CGMO1-1, CGMO1-2, and CGMO1-5
Lot Number:	C2-MO02032
Starting Material:	(NH4)6Mo7O24xH2O
Starting Material Purity (%):	99.998755
Starting Material Lot No:	P704MOA1
Matrix:	H2O / tr. NH4OH

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Concentration: 999 ± 3 µg/mL

Certified Density: 0.999 g/mL (measured at 22° C)

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Certified Value $(\bar{x}) = \frac{\Sigma x_i}{n}$

Uncertainty (±) $= \frac{2[(\Sigma s_i)^2]^{1/2}}{(n)^{1/2}}$

$(\bar{x})$ = mean
x_i = individual results
n = number of measurements
Σs_i = The summation of all significant estimated errors (Most common are the errors from instrumental measurement, weighing, dilution to volume, and the fixed error reported on the NIST SRM certificate of analysis.)

4.0 TRACEABILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS

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4.1 Assay Method #1 999 ± 3 µg/mL (Avg. of 2 Runs)
ICP Assay NIST SRM 3134 Lot Number: 891307

Assay Method #2 1001 ± 5 µg/mL
Calculated NIST SRM Lot Number: See Sec. 4.2

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ACCREDITED Reference Material Producer Certificate 853.02

2.0 **DESCRIPTION OF CRM** **1000 µg/mL Boron in H20**

Catalog Number:	*CGB1-1, CGB1-2, and CGB1-5*
Lot Number:	**B2-B02080**
Starting Material:	H3BO3
Starting Material Purity (%):	99.999998
Starting Material Lot No:	OV0133
Matrix:	H20

3.0 **CERTIFIED VALUES AND UNCERTAINTIES**

Certified Concentration: 1000 ± 3 µg/mL

Certified Density: 1.000 g/mL (measured at 22° C)

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k ≈ 2.

Certified Value ($\bar{x}$) = $\frac{\Sigma x_i}{n}$

Uncertainty (±) = $\frac{2[(\Sigma s_i)^2]^{1/2}}{(n)^{1/2}}$

($\bar{x}$) = mean
x_i = individual results
n = number of measurements
Σs_i = The summation of all significant estimated errors (Most common are the errors from instrumental measurement, weighing, dilution to volume, and the fixed error reported on the NIST SRM certificate of analysis.)

4.0 **TRACEABILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS**

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4.1 **Assay Method #1** **1000 ± 3 µg/mL (Avg. of 2 Runs)**
ICP Assay NIST SRM 3107 Lot Number: 070514

Assay Method #2 **1003 ± 5 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

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ACCREDITED Testing Laboratory Certificate 383 01

ACCREDITED Reference Material Producer Certificate 883 02

2.0 DESCRIPTION OF CRM 1000 µg/mL Manganese in 3% HNO3

Catalog Number:	CGMN1-1, CGMN1-2, and CGMN1-5
Lot Number:	C2-MN02072
Starting Material:	Mn pieces
Starting Material Purity (%):	99.994492
Starting Material Lot No:	R806MNA1
Matrix:	3% HNO3

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Concentration: 1002 ± 2 µg/mL

Certified Density: 1.016 g/mL (measured at 22° C)

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Certified Value $(\bar{x}) = \frac{\Sigma x_i}{n}$

Uncertainty $(\pm) = \frac{2[(\Sigma s_i)^2]^{1/2}}{(n)^{1/2}}$

$(\bar{x})$ = mean
x_i = individual results
n = number of measurements
Σs_i = The summation of all significant estimated errors
(Most common are the errors from instrumental measurement, weighing, dilution to volume, and the fixed error reported on the NIST SRM certificate of analysis.)

4.0 TRACEABILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS

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4.1 Assay Method #1 994 ± 7 µg/mL
ICP Assay NIST SRM 3132 Lot Number: 050429

Assay Method #2 1002 ± 2 µg/mL
EDTA NIST SRM 928 Lot Number: 928

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ACCREDITED Reference Material Producer Certificate 883.02

2.0	DESCRIPTION OF CRM	**1000 µg/mL Sulfur in H2O**
	Catalog Number:	CGS1-1, CGS1-2, and CGS1-5
	Lot Number:	**C2-S01100**
	Starting Material:	H2SO4
	Starting Material Purity (%):	99.999991
	Starting Material Lot No:	X48058
	Matrix:	H2O

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Concentration: 1009 ± 3 µg/mL

Certified Density: 1.000 g/mL (measured at 22° C)

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

$$\text{Certified Value } (\bar{x}) = \frac{\Sigma x_i}{n}$$

$(\bar{x})$ = mean
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n = number of measurements

$$\text{Uncertainty } (\pm) = \frac{2[(\Sigma s_i)^2]^{1/2}}{(n)^{1/2}}$$

Σs_i = The summation of all significant estimated errors (Most common are the errors from instrumental measurement, weighing, dilution to volume, and the fixed error reported on the NIST SRM certificate of analysis.)

4.0 TRACEABILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS

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4.1	Assay Method #1	**1009 ± 3 µg/mL** Acidimetric NIST SRM 84k Lot Number: 84k
	Assay Method #2	**1002 ± 9 µg/mL** ICP Assay NIST SRM 3154 Lot Number: 892205

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2.0 DESCRIPTION OF CRM — 1000 µg/mL Silicon in tr. HNO3 / tr. HF

Catalog Number:	CGSI1-1, CGSI1-2, and CGSI1-5
Lot Number:	C2-SI02126
Starting Material:	SiO2
Starting Material Purity (%):	99.999846
Starting Material Lot No:	1015122300
Matrix:	tr. HNO3 / tr. HF

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Concentration: 1,010 ± 3 µg/mL

Certified Density: 1.002g/mL (measured at 22° C)

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Certified Value $(\bar{x}) = \frac{\Sigma x_i}{n}$

Uncertainty $(\pm) = \frac{2[(\Sigma s_i)^2]^{1/2}}{(n)^{1/2}}$

$(\bar{x})$ = mean
x_i = individual results
n = number of measurements
Σs_i = The summation of all significant estimated errors (Most common are the errors from instrumental measurement, weighing, dilution to volume, and the fixed error reported on the NIST SRM certificate of analysis.)

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4.1 **Assay Method #1** — **1,010 ± 3 µg/mL (avg. of 2 runs)**
ICP Assay NIST SRM 3150 · Lot Number: 071204

Assay Method #2 — **1,000 ± 5 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

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ACCREDITED Testing Laboratory Certificate 883 01

ACCREDITED Reference Material Producer Certificate 883 02

2.0 DESCRIPTION OF CRM

	1000 µg/mL Tin in HCl in 19% HCl (v/v)
Catalog Number:	CGSNCL1-1, CGSNCL1-2, and CGSNCL1-5
Lot Number:	B2-SN02019
Starting Material:	Sn Shot
Starting Material Purity (%):	99.991456
Starting Material Lot No:	F27N16
Matrix:	19% HCl (v/v)

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Concentration: 1,004 ± 2 µg/mL

Certified Density: 1.038 g/mL (measured at 22° C)

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

$$\text{Certified Value } (\bar{x}) = \frac{\Sigma x_i}{n}$$

$$\text{Uncertainty } (\pm) = \frac{2[(\Sigma s_i)^2]^{1/2}}{(n)^{1/2}}$$

($\bar{x}$) = mean
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n = number of measurements
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4.1 Assay Method #1 — 1,004 ± 2 µg/mL (Avg. of 2 Runs)
ICP Assay NIST SRM 3161a Lot Number: 070330

Assay Method #2 — 1,002 ± 5 µg/mL
Calculated NIST SRM Lot Number: See Sec. 4.2

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ACCREDITED Testing Laboratory - Certificate 883 01

ACCREDITED Reference Material Producer Certificate 883 02

2.0 DESCRIPTION OF CRM 1000 µg/mL Titanium in 2% (v/v) HNO3 / tr. HF

Catalog Number:	CGTI1-1, CGTI1-2, and CGTI1-5
Lot Number:	C2-TI02065
Starting Material:	Ti turnings
Starting Material Purity (%):	99.996450
Starting Material Lot No:	R404TIA1
Matrix:	2% (v/v) HNO3 / tr. HF

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Concentration: 991 ± 4 µg/mL

Certified Density: 1.010 g/mL (measured at 22° C)

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Certified Value $(\bar{x}) = \frac{\Sigma x_i}{n}$

Uncertainty $(\pm) = \frac{2[(\Sigma s_i)^2]^{1/2}}{(n)^{1/2}}$

$(\bar{x})$ = mean
x_i = individual results
n = number of measurements
Σs_i = The summation of all significant estimated errors (Most common are the errors from instrumental measurement, weighing, dilution to volume, and the fixed error reported on the NIST SRM certificate of analysis.)

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4.1 Assay Method #1 991 ± 4 µg/mL (avg. of 2 runs)
ICP Assay NIST SRM 3162a Lot Number: 060808

Assay Method #2 1000 ± 5 µg/mL
Calculated NIST SRM Lot Number: See Sec. 4.2

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ACCREDITED Testing Laboratory Certificate 883.01 — ACCREDITED Reference Material Producer Certificate 883.02

2.0 **DESCRIPTION OF CRM** ***1000 µg/mL Lithium in 0.1% (v/v) HNO3***

Catalog Number:	CGLI1-1, CGLI1-2, and CGLI1-5
Lot Number:	**C2-LI02113**
Starting Material:	Li2CO3
Starting Material Purity (%):	99.997165
Starting Material Lot No:	1123
Matrix:	0.1% (v/v) HNO3

3.0 **CERTIFIED VALUES AND UNCERTAINTIES**

Certified Concentration: 997 ± 1 µg/mL

Certified Density: 1.005 g/mL (measured at 22° C)

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Certified Value $(\bar{x}) = \frac{\Sigma x_i}{n}$

Uncertainty $(\pm) = \frac{2[(\Sigma s_i)^2]^{1/2}}{(n)^{1/2}}$

$(\bar{x})$ = mean
x_i = individual results
n = number of measurements
Σs_i = The summation of all significant estimated errors (Most common are the errors from instrumental measurement, weighing, dilution to volume, and the fixed error reported on the NIST SRM certificate of analysis.)

4.0 **TRACEABILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS**

- "Property of the result of a measurement or the value of a standard whereby it can be related to stated references, usually national or International standards, through an unbroken chain of comparisons all having stated uncertainties." (ISO VIM, 2nd ed., 1993, definition 6.10)
- This product is Traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRMs are available, the term 'in-house std.' is specified.

4.1 Assay Method #1 **994 ± 3 µg/mL**
ICP Assay NIST SRM 3129a Lot Number: 000505

Assay Method #2 **997 ± 1 µg/mL**
Gravimetric NIST SRM Lot Number: See Sec. 4.2

INORGANIC VENTURES
195 Lehigh Avenue, Suite 4
Lakewood, New Jersey 08701 USA
inorganicventures.com

CERTIFICATE OF ANALYSIS

R: 10/26/08

MM1808

tel: 800.669.6799 732.901.1900
fax: 732.901.1903
info@inorganicventures.com

1.0 ***INORGANIC VENTURES*** is an ISO Guide 34 "General Requirements for the Competence of Reference Material Producers" and ISO 9001:2000 registered manufacturer. Our manufacturing laboratory is accredited to ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories."

ACCREDITED Testing Laboratory Certificate 583.01

ACCREDITED Reference Material Producer Certificate 583.02

2.0 DESCRIPTION OF CRM **10000 µg/mL Lithium in 1.4% (abs) HNO3**

Catalog Number:	CGLI10-1, CGLI10-2, and CGLI10-5
Lot Number:	**A2-QLI02141**
Starting Material:	Li2CO3
Starting Material Purity (%):	99.997166
Starting Material Lot No:	1123
Matrix:	1.4% (abs) HNO3

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Concentration: 9948 ± 27 µg/mL

Certified Density: 1.064 g/mL (measured at 22° C)

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

$$\text{Certified Value } (\square) = \frac{\Sigma x_i}{n}$$

$$\text{Uncertainty } (\pm) = \frac{2[(\Sigma s_i)^2]^{1/2}}{(n)^{1/2}}$$

($\square$) = mean
x_i = individual results
n = number of measurements
Σs_i = The summation of all significant estimated errors (Most common are the errors from instrumental measurement, weighing, dilution to volume, and the fixed error reported on the NIST SRM certificate of analysis.)

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

4.0 TRACEABILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS

"Property of the result of a measurement or the value of a standard whereby it can be related to stated references, usually national or international standards, through an unbroken chain of comparisons all having stated uncertainties." (ISO VIM, 2nd ed., 1993, definition 6.10)

This product is Traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRMs are available, the term 'in-house std.' is specified.

4.1 **Assay Method #1** **9948 ± 27 µg/mL**
ICP Assay NIST SRM 3129a Lot Number: 000505

Assay Method #2 **9956 ± 2 µg/mL**
Gravimetric NIST SRM Lot Number: See Sec. 4.2

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CERTIFICATE OF ANALYSIS

R: 03/10/09.

mm1681

1.0 **INORGANIC VENTURES** is an ISO Guide 34 "General Requirements for the Competence of Reference Material Producers" and ISO 9001:2000 registered manufacturer. Our manufacturing laboratory is accredited to ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories."

ACCREDITED Testing Laboratory Certificate 863.01

ACCREDITED Reference Material Producer Certificate 863.02

2.0 **DESCRIPTION OF CRM** **1000 µg/mL Boron in H20**

Catalog Number:	CGB1-1, CGB1-2, and CGB1-5
Lot Number:	**B2-B02080**
Starting Material:	H3BO3
Starting Material Purity (%):	99.999998
Starting Material Lot No:	OV0133
Matrix:	H20

3.0 **CERTIFIED VALUES AND UNCERTAINTIES**

Certified Concentration: 1000 ± 3 µg/mL

Certified Density: 1.000 g/mL (measured at 22° C)

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2

Certified Value $(\bar{x}) = \frac{\Sigma x_i}{n}$

Uncertainty $(\pm) = \frac{2[(\Sigma s_i)^2]^{1/2}}{(n)^{1/2}}$

$(\bar{x})$ = mean
x = individual results
n = number of measurements
Σs_i = The summation of all significant estimated errors (Most common are the errors from instrumental measurement, weighing, dilution to volume, and the fixed error reported on the NIST SRM certificate of analysis.)

4.0 **TRACEABILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS**

"Property of the result of a measurement or the value of a standard whereby it can be related to stated references, usually national or international standards, through an unbroken chain of comparisons all having stated uncertainties." (ISO VIM, 2nd ed., 1993, definition 6.10)

This product is Traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRMs are available, the term 'in-house std.' is specified.

4.1 **Assay Method #1** ***1000 ± 3 µg/mL (Avg. of 2 Runs)***
ICP Assay NIST SRM 3107 Lot Number: 070514

Assay Method #2 **1003 ± 5 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

INORGANIC™ VENTURES
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CERTIFICATE OF ANALYSIS

R: 08/03/09

MM1750

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1.0 **INORGANIC VENTURES** is an ISO Guide 34 "General Requirements for the Competence of Reference Material Producers" and ISO 9001:2000 registered manufacturer. Our manufacturing laboratory is accredited to ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories."

ACCREDITED Testing Laboratory Certificate 883.01 — ACCREDITED Reference Material Producer Certificate 883.02

2.0 **DESCRIPTION OF CRM** **1000 µg/mL Lithium in 0.1% (v/v) HNO3**

Catalog Number:	CGLI1-1, CGLI1-2, and CGLI1-5
Lot Number:	**C2-LI02113**
Starting Material:	Li2CO3
Starting Material Purity (%):	99.997165
Starting Material Lot No:	1123
Matrix:	0.1% (v/v) HNO3

3.0 **CERTIFIED VALUES AND UNCERTAINTIES**

Certified Concentration: 997 ± 1 µg/mL

Certified Density: 1.005 g/mL (measured at 22° C)

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Certified Value $(\bar{x}) = \frac{\Sigma x_i}{n}$

Uncertainty $(\pm) = \frac{2[(\Sigma s_i)^2]^{1/2}}{(n)^{1/2}}$

$(\bar{x})$ = mean
x_i = individual results
n = number of measurements
Σs_i = The summation of all significant estimated errors (Most common are the errors from instrumental measurement, weighing, dilution to volume, and the fixed error reported on the NIST SRM certificate of analysis.)

4.0 **TRACEABILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS**

"Property of the result of a measurement or the value of a standard whereby it can be related to stated references, usually national or international standards, through an unbroken chain of comparisons all having stated uncertainties." (ISO VIM, 2nd ed., 1993, definition 6.10)

This product is Traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRMs are available, the term 'in-house std.' is specified.

4.1 **Assay Method #1** **994 ± 3 µg/mL**
ICP Assay NIST SRM 3129a Lot Number: 000505

Assay Method #2 **997 ± 1 µg/mL**
Gravimetric NIST SRM Lot Number: See Sec. 4.2

QATS INORGANIC REFERENCE MATERIAL
INITIAL CALIBRATION VERIFICATION SOLUTIONS
(ICVs)

MM1849 To MM1858

ICV-1 (0307)		
Element	Concentration (µg/L) (after 10 fold dilution)	Concentration (µg/L) (after 50 fold dilution)
Al	2521	504
Sb	994	199
As	999	200
Ba	497	99
Be	495	99
Cd	496	99
Ca	10026	2005
Cr	490	98
Co	499	100
Cu	492	98
Fe	5082	1016
Pb	1002	200
Mg	6074	1215
Mn	499	100
Ni	503	101
K	10021	2004
Se	1029	206
Ag	501	100
Na	10097	2019
Tl	1028	206
V	501	100
Zn	1025	205

ICV-2 (0601)	
Element	Concentration (µg/L) (after 20 fold dilution)
As	52.6
Se	50.8

ICV-3 (0500)	
Element	Concentration (µg/L) (after 10 fold dilution)
Sb	999

12/24/08

R: 09/11/08

QATS INORGANIC REFERENCE MATERIAL
INITIAL CALIBRATION VERIFICATION SOLUTIONS
(ICVs)

ICV-1 (0307)		
Element	Concentration (µg/L) (after 10 fold dilution)	Concentration (µg/L) (after 50 fold dilution)
Al	2521	504
Sb	994	199
As	999	200
Ba	497	99
Be	495	99
Cd	496	99
Ca	10026	2005
Cr	490	98
Co	499	100
Cu	492	98
Fe	5082	1016
Pb	1002	200
Mg	6074	1215
Mn	499	100
Ni	503	101
K	10021	2004
Se	1029	206
Ag	501	100
Na	10097	2019
Tl	1028	206
V	501	100
Zn	1025	205

ICV-1 (0307) MM1773 TO → MM1782

ICV-2 (0601)	
Element	Concentration (µg/L) (after 20 fold dilution)
~~As~~	52.6
~~Se~~	50.8

ICV-3 (0500)	
Element	Concentration (µg/L) (after 10 fold dilution)
~~Sb~~	999

9/11/08

QATS INORGANIC REFERENCE MATERIAL
INTERFERENCE CHECK SAMPLE SET
PART A (1206) WITH PART B (0203) FOR ICP-AES

R: 09/11/09

The "Certified Value" concentrations of the elements are listed in Table 1. The values are certified in that all results used in calculating the certified values were derived from statistically pooled results from the following sources: ILM05.4 Pre-award analysis, Quarterly Blind analysis, CLP laboratory referee analysis, and QATS Laboratory analysis. Preparation and analysis must be performed according to the following instructions:

Part A (1206), Interferents: Pipet 10 mL of the Part A solution into a 100 mL volumetric flask and dilute to volume with 2% v/v HNO_3. Analyze this solution, Soln. A, by ICP-AES.

Part B (0203), Analytes, mixed with Part A (1206), Interferents: Pipet 10 mL of the Part A solution and 10 mL of the Part B solution into a 100 mL volumetric flask and dilute to volume with 2% v/v HNO_3. Analyze this solution, Soln. AB, by ICP-AES.

NOTE: THIS ICS SET IS FOR USE WITH ILM05.4 AND REVISIONS ONLY, NOT ILM04.x.

Table 1: "CERTIFIED VALUES" FOR INTERFERENCE CHECK SAMPLE ICP-AES PART A (1206), AND PART A (1206) MIXED WITH PART B (0203)

Element	Concentration (µg/L) Part A	Concentration (µg/L) Part A + Part B
Al	244100	241100
Sb	(0)	589
As	(0)	101
Ba	(2)	495
Be	(0)	475
Cd	(0)	940
Ca	234900	231100
Cr	43	511
Co	(4)	461
Cu	(23)	548
Fe	95600	94800
Pb	10	61
Mg	247500	251100
Mn	19	502
Ni	(21)	984
Se	(0)	53
Ag	(0)	206
Tl	(0)	103
V	(0)	494
Zn	(28)	1028

( ) Indicates analyte values that are less than the CRQL, and the value is to be used as a set point for the +/- 2 times CRQL acceptance criteria calculations.

PART A: MM1783 TO MM1792, PART B: MM1793 TO MM1797

QATS INORGANIC REFERENCE MATERIAL
SOLID LABORATORY CONTROL SAMPLE
LCS-S (0405)

R: 05/27/08

TABLE 1. "CERTIFIED VALUE" CONCENTRATIONS AND CONTROL LIMITS FOR THE ELEMENTS IN THE SOLID LABORATORY CONTROL SAMPLE, LCS-S (0405)			
Element	"Certified Value" (mg/Kg)	Control Limits (mg/Kg) Low Limit	High Limit
Al	115	54.7	175
Sb	66.0	27.6	104
As	253	154	352
Ba*	[1.6]	1.0	2.2
Be	4.9	3.0	6.8
Cd	10.9	7.7	14.0
Ca	44200	30300	58200
Cr	27.1	18.5	35.7
Co	37.4	24.2	50.6
Cu	1770	1320	2230
Fe	6470	4280	8660
Pb	56.9	41.4	72.4
Mg	29200	20500	37900
Mn	61.0	41.6	80.5
Hg	3.59	1.86	5.32
Ni	16.3	9.0	23.7
K*	[39.7]	0	85.3
Se	10.0	4.1	15.9
Ag	5.9	2.7	9.1
Na*	[72.5]	0	216
Tl	9.5	2.9	16.1
V	17.6	11.6	23.7
Zn	47.5	20.5	74.4

[ ] Denotes values which are greater than or equal to the method detection limit (MDL), but less than the Contract Required Quantitation Limit (CRQL).

* Barium, potassium, and sodium are present at concentrations below ILM05.x CRQLs. Acceptance limits are advisory only.

LCS-S (0405) MM1739 → MM1741

HG RAW DATA
B1560

WinHg Database 1.4

File Utility Help

Protocol chemtech Dataset/Proto LB48952 /chemtech

Protocol | Line info | Cal Curve | Report | Ctrl Chart | Viewer

Reset
Calib Coeffs
New Cal
Update Coeffs
Spike Coeffs

A
B 2.42920e-5
C 9.83963e-2
Rho .999952
Type Linear
Calibrated
Accepted
Accept

Rel. Abs.
414948
Accepted
New

Include S1 Rep 1 2 3 4 5

Conc 10.0

S	Conc	Calc	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3
01	.00000	.050	.050	6103	0	6103	[illegible]	
02	.20000	.175	-.025	11259	0%	11259	97	
03	2.5000	2.44	-.056	104671	0%	104671	100	
04	5.0000	5.02	.019	210672	0%	210671	100	
05	7.5000	7.53	.030	314032	0%	314032	99	
06	10.000	9.98	-.018	414949	0%	414948		

Ready CAP NUM

Instrument ID: CV2 LB48952 A.P.

MERCURY RAW DATA Folder: LB48952 Page 1
13:26:15 15 Mar 2010 Protocol: chemtech

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Standard: 1 Rep: 1 50 Seq: 1 13:26:15 15 Mar 10 HG

Hg .000 ppb 6103

*** Standard: 2 Rep: 1 50.2 Seq: 2 13:28:09 15 Mar 10 HG

Hg .200 ppb 11259

*** Standard: 3 Rep: 1 52.5 Seq: 3 13:30:16 15 Mar 10 HG

Hg 2.50 ppb 104671

*** Standard: 4 Rep: 1 55.0 Seq: 4 13:32:13 15 Mar 10 HG

Hg 5.00 ppb 210671

*** Standard: 5 Rep: 1 57.5 Seq: 5 13:34:23 15 Mar 10 HG

Hg 7.50 ppb 314032

*** Standard: 6 Rep: 1 510.0 Seq: 6 13:36:39 15 Mar 10 HG

Hg 10.0 ppb 414948

03/15/10 A.P.

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID: ICV					Seq: 7	13:53:30 15 Mar 10		HG
			ICV					
Hg	4.42	ppb	.000	4.42				
*** Sample ID: ICB					Seq: 8	13:56:47 15 Mar 10		HG
			ICB					
Hg	-.077	ppb	.000	-.077				
*** Sample ID: CRI					Seq: 9	13:58:51 15 Mar 10		HG
			CRI					
Hg	.148	ppb	.000	.148				
*** Sample ID: CCV					Seq: 10	14:00:45 15 Mar 10		HG
			CCV					
Hg	4.97	ppb	.000	4.97				
*** Sample ID: CCB					Seq: 11	14:03:28 15 Mar 10		HG
			CCB					
Hg	-.065	ppb	.000	-.065				
*** Sample ID: PB48233BL					Seq: 12	14:05:27 15 Mar 10		HG
			PBW					
Hg	-.077	ppb	.000	-.077				
*** Sample ID: B1560-01					Seq: 13	14:08:12 15 Mar 10		HG
			MF3FX7					
Hg	-.057	ppb	.000	-.057				
*** Sample ID: B1560-02					Seq: 14	14:10:40 15 Mar 10		HG
			MF3FY1					
Hg	-.080	ppb	.000	-.080				
*** Sample ID: B1560-03					Seq: 15	14:12:46 15 Mar 10		HG
			MF3FY2					
Hg	-.057	ppb	.000	-.057				
*** Sample ID: B1560-04					Seq: 16	14:14:56 15 Mar 10		HG
			MF3FY3					
Hg	-.101	ppb	.000	-.101				
*** Sample ID: B1560-05					Seq: 17	14:17:04 15 Mar 10		HG
			MF3FY3D					
Hg	-.079	ppb	.000	-.079				
*** Sample ID: B1560-06					Seq: 18	14:19:18 15 Mar 10		HG
			MF3FY3S					
Hg	.897	ppb	.000	.897				

03/15/10 AR

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID: B1560-07				Seq: 19	14:21:13 15 Mar 10			HG
			MF3FY4					
Hg	.134	ppb	.000	.134				
*** Sample ID: B1560-08				Seq: 20	14:23:11 15 Mar 10			HG
			MF3FZ0					
Hg	-.084	ppb	.000	-.084				
*** Sample ID: B1560-09				Seq: 21	14:25:27 15 Mar 10			HG
			MF3FZ1					
Hg	-.094	ppb	.000	-.094				
*** Sample ID: CCV				Seq: 22	14:27:34 15 Mar 10			HG
			CCV					
Hg	4.79	ppb	.000	4.79				
*** Sample ID: CCB				Seq: 23	14:29:29 15 Mar 10			HG
			CCB					
Hg	-.071	ppb	.000	-.071				
*** Sample ID: B1560-10				Seq: 24	14:31:52 15 Mar 10			HG
			MF3FX8					
Hg	-.101	ppb	.000	-.101				
*** Sample ID: B1560-11				Seq: 25	14:33:47 15 Mar 10			HG
			MF3FX9					
Hg	-.131	ppb	.000	-.131				
*** Sample ID: B1560-12				Seq: 26	14:35:54 15 Mar 10			HG
			MF3FY6					
Hg	-.143	ppb	.000	-.143				
*** Sample ID: B1560-13				Seq: 27	14:37:50 15 Mar 10			HG
			MF3FY7					
Hg	-.093	ppb	.000	-.093				
*** Sample ID: B1560-14				Seq: 28	14:40:01 15 Mar 10			HG
			MF3FZ2					
Hg	.154	ppb	.000	.154				
*** Sample ID: B1560-15				Seq: 29	14:43:00 15 Mar 10			HG
			MF3FZ3					
Hg	-.092	ppb	.000	-.092				
*** Sample ID: B1560-16				Seq: 30	14:44:55 15 Mar 10			HG
			MF3FZ5					
Hg	-.110	ppb	.000	-.110				

03/15/10 AP.

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID: ~~CRI~~ 222222			A-P-03/15/10 ~~CRI~~ 222222	Seq: 31	14:46:49 15 Mar 10			HG
Hg	.138	ppb	.000	.138				
*** Sample ID: ~~CRI~~ 222222			A-P-03/15/10 ~~CRI~~ 222222	Seq: 32	14:49:03 15 Mar 10			HG
Hg	.124	ppb	.000	.124				
*** Sample ID: CRI			CRI	Seq: 33	14:51:24 15 Mar 10			HG
Hg	.148	ppb	.000	.148				
*** Sample ID: CCV			CCV	Seq: 34	14:53:22 15 Mar 10			HG
Hg	4.74	ppb	.000	4.74				
*** Sample ID: CCB			CCB	Seq: 35	14:55:18 15 Mar 10			HG
Hg	-.078	ppb	.000	-.078				
*** Sample ID: B1560-17			MF3FZ6	Seq: 36	14:57:34 15 Mar 10			HG
Hg	-.097	ppb	.000	-.097				
*** Sample ID: B1560-18			MF3FY0	Seq: 37	14:59:31 15 Mar 10			HG
Hg	-.067	ppb	.000	-.067				
*** Sample ID: B1560-19			MF3FY8	Seq: 38	15:01:38 15 Mar 10			HG
Hg	-.063	ppb	.000	-.063				
*** Sample ID: B1560-20			MF3FZ8	Seq: 39	15:03:33 15 Mar 10			HG
Hg	-.047	ppb	.000	-.047				
*** Sample ID: B1560-21			MF3G01	Seq: 40	15:05:29 15 Mar 10			HG
Hg	-.027	ppb	.000	-.027				
*** Sample ID: CRI			CRI	Seq: 41	15:07:29 15 Mar 10			HG
Hg	.197	ppb	.000	.197				
*** Sample ID: CCV			CCV	Seq: 42	15:09:23 15 Mar 10			HG
Hg	4.70	ppb	.000	4.70				

03/15/10 A-P.

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: CCB Seq: 43 15:11:21 15 Mar 10 HG

			CCB	
Hg	-.083	ppb	.000	-.083

03/15/10 AP

CV2 from log

cup	sample ID	extended ID	weight	volume	? A D F P S U SC UI US C1..7
1	ICV	ICV	1.0000	1.0000	
2	ICB	ICB	1.0000	1.0000	
3	CRI	CRI	1.0000	1.0000	
4	CCV	CCV	1.0000	1.0000	
5	CCB	CCB	1.0000	1.0000	
6	PB48233BL	PBW	1.0000	1.0000	
7	B1560-01	MF3FX7	1.0000	1.0000	
8	B1560-02	MF3FY1	1.0000	1.0000	
9	B1560-03	MF3FY2	1.0000	1.0000	
10	B1560-04	MF3FY3	1.0000	1.0000	
11	B1560-05	MF3FY3D	1.0000	1.0000	
12	B1560-06	MF3FY3S	1.0000	1.0000	
13	B1560-07	MF3FY4	1.0000	1.0000	
14	B1560-08	MF3FZ0	1.0000	1.0000	
15	B1560-09	MF3FZ1	1.0000	1.0000	
16	CCV	CCV	1.0000	1.0000	
17	CCB	CCB	1.0000	1.0000	
18	B1560-10	MF3FX8	1.0000	1.0000	
19	B1560-11	MF3FX9	1.0000	1.0000	
20	B1560-12	MF3FY6	1.0000	1.0000	
21	B1560-13	MF3FY7	1.0000	1.0000	
22	B1560-14	MF3FZ2	1.0000	1.0000	
23	B1560-15	MF3FZ3	1.0000	1.0000	
24	B1560-16	MF3FZ5	1.0000	1.0000	
25	~~CRI2222~~	~~CRI2222~~ A.P.	1.0000	1.0000	
26	~~CRI2222~~	~~CRI2222~~ 03/15/10	1.0000	1.0000	
27	CRI	CRI	1.0000	1.0000	
28	CCV	CCV	1.0000	1.0000	
29	CCB	CCB	1.0000	1.0000	
30	B1560-17	MF3FZ6	1.0000	1.0000	
31	B1560-18	MF3FY0	1.0000	1.0000	
32	B1560-19	MF3FY8	1.0000	1.0000	
33	B1560-20	MF3FZ8	1.0000	1.0000	
34	B1560-21	MF3G01	1.0000	1.0000	
35	CRI	CRI	1.0000	1.0000	
36	CCV	CCV	1.0000	1.0000	
37	CCB	CCB	1.0000	1.0000	
38			1.0000	1.0000	
39			1.0000	1.0000	
40			1.0000	1.0000	
41			1.0000	1.0000	
42			1.0000	1.0000	
43			1.0000	1.0000	
44			1.0000	1.0000	A.P. 03/15/10

Raw DATA w/ Absorbance

LB48952

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",.000,6103
6,1,"Std02Rep1",2,"15 Mar 10","13:28:09","chemtech",2,1,1,"Hg ","ppb"," ","
",.200,11259
6,1,"Std03Rep1",3,"15 Mar 10","13:30:16","chemtech",3,1,1,"Hg ","ppb"," ","
",2.50,104671
6,1,"Std04Rep1",4,"15 Mar 10","13:32:13","chemtech",4,1,1,"Hg ","ppb"," ","
",5.00,210671
6,1,"Std05Rep1",5,"15 Mar 10","13:34:23","chemtech",5,1,1,"Hg ","ppb"," ","
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6,1,"Std06Rep1",6,"15 Mar 10","13:36:39","chemtech",6,1,1,"Hg ","ppb"," ","
",10.0,414948
2,1,"ICV       ",7,"15 Mar 10","13:53:30","chemtech","",1,1.00,1.00,1,"","Hg
","ppb"," "," ",4.42,.000,185998,4.42
2,1,"ICB       ",8,"15 Mar 10","13:56:47","chemtech","",2,1.00,1.00,1,"","Hg
","ppb"," "," ",-.077,.000,893,-.077
2,1,"CRI       ",9,"15 Mar 10","13:58:51","chemtech","",3,1.00,1.00,1,"","Hg
","ppb"," "," ",.148,.000,10151,.148
2,1,"CCV       ",10,"15 Mar 10","14:00:45","chemtech","",4,1.00,1.00,1,"","Hg
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2,1,"CCB       ",11,"15 Mar 10","14:03:28","chemtech","",5,1.00,1.00,1,"","Hg
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2,1,"PB48233BL ",12,"15 Mar 10","14:05:27","chemtech","",6,1.00,1.00,1,"","Hg
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2,1,"B1560-01  ",13,"15 Mar 10","14:08:12","chemtech","",7,1.00,1.00,1,"","Hg
","ppb"," "," ",-.057,.000,1713,-.057
2,1,"B1560-02  ",14,"15 Mar 10","14:10:40","chemtech","",8,1.00,1.00,1,"","Hg
","ppb"," "," ",-.080,.000,742,-.080
2,1,"B1560-03  ",15,"15 Mar 10","14:12:46","chemtech","",9,1.00,1.00,1,"","Hg
","ppb"," "," ",-.057,.000,1685,-.057
2,1,"B1560-04  ",16,"15 Mar 10","14:14:56","chemtech","",10,1.00,1.00,1,"","Hg
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2,1,"B1560-05  ",17,"15 Mar 10","14:17:04","chemtech","",11,1.00,1.00,1,"","Hg
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2,1,"B1560-06  ",18,"15 Mar 10","14:19:18","chemtech","",12,1.00,1.00,1,"","Hg
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2,1,"B1560-07  ",19,"15 Mar 10","14:21:13","chemtech","",13,1.00,1.00,1,"","Hg
","ppb"," "," ",.134,.000,9573,.134
2,1,"B1560-08  ",20,"15 Mar 10","14:23:11","chemtech","",14,1.00,1.00,1,"","Hg
","ppb"," "," ",-.084,.000,586,-.084
2,1,"B1560-09  ",21,"15 Mar 10","14:25:27","chemtech","",15,1.00,1.00,1,"","Hg
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2,1,"B1560-11  ",25,"15 Mar 10","14:33:47","chemtech","",19,1.00,1.00,1,"","Hg
","ppb"," "," ",-.131,.000,-1345,-.131
2,1,"B1560-12  ",26,"15 Mar 10","14:35:54","chemtech","",20,1.00,1.00,1,"","Hg
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2,1,"B1560-13  ",27,"15 Mar 10","14:37:50","chemtech","",21,1.00,1.00,1,"","Hg
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2,1,"B1560-14  ",28,"15 Mar 10","14:40:01","chemtech","",22,1.00,1.00,1,"","Hg
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2,1,"B1560-15  ",29,"15 Mar 10","14:43:00","chemtech","",23,1.00,1.00,1,"","Hg
","ppb"," "," ",-.092,.000,245,-.092
2,1,"B1560-16  ",30,"15 Mar 10","14:44:55","chemtech","",24,1.00,1.00,1,"","Hg
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2,1,"CRI       ",31,"15 Mar 10","14:46:49","chemtech","",25,1.00,1.00,1,"","Hg
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Arf. 03/15/10

Raw Data w/ Absorbance

AT.03/15/10

LB48952

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2,1,~~CRI~~ 222222      ",32,"15 Mar 10","14:49:03","chemtech","",25,1.00,1.00,1,"","Hg
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2,1,"CRI        ",33,"15 Mar 10","14:51:24","chemtech","",25,1.00,1.00,1,"","Hg
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2,1,"CCV        ",34,"15 Mar 10","14:53:22","chemtech","",26,1.00,1.00,1,"","Hg
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2,1,"B1560-17   ",36,"15 Mar 10","14:57:34","chemtech","",28,1.00,1.00,1,"","Hg
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2,1,"B1560-18   ",37,"15 Mar 10","14:59:31","chemtech","",29,1.00,1.00,1,"","Hg
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2,1,"B1560-20   ",39,"15 Mar 10","15:03:33","chemtech","",31,1.00,1.00,1,"","Hg
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2,1,"B1560-21   ",40,"15 Mar 10","15:05:29","chemtech","",32,1.00,1.00,1,"","Hg
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2,1,"CRI        ",41,"15 Mar 10","15:07:29","chemtech","",33,1.00,1.00,1,"","Hg
","ppb"," "," ",.197,.000,12165,.197
2,1,"CCV        ",42,"15 Mar 10","15:09:23","chemtech","",34,1.00,1.00,1,"","Hg
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","ppb"," "," ",-.083,.000,624,-.083
```

CHEMTECH

284 Sheffield Street Mountainside, NJ 07092

MERCURY ANALYSIS LOGBOOK

LB48952 (cr2)

Date	Case Number	Batch Number	Start Time	BLK	STD1	STD2	STD3	STD4
03/09/10	B1450	PB48148	12:24	736	8177	95481	195293	288362
	B1535	PB48147	↓	↓	↓	↓	↓	↓
03/09/10	B1472	PB48162	15:02	-620	7262	96164	192530	286347
	B1479	PB48161	↓	↓	↓	↓	↓	↓
03/09/10	B1450	PB48148	17:13	1655	6623	95610	193608	290520
03/10/10	B1471	PB48163	14:07	455	3943	94678	188399	272839
03/10/10	B1502	PB48183	15:57	2777	21150	95779	192353	278301
03/10/10	B1501	PB48182	16:51	989	12812	94942	183823	275268
03/15/10	B1560	PB48233	13:26	6103	11259	104671	210671	314032

EPA B1560

CHEMTECH

284 Sheffield Street Mountainside, NJ 07092

MERCURY ANALYSIS LOGBOOK

STD 5	End Time	Correlation Coeficient	Stannous Chloride Prep log #	Comment	Analyst	Supervisor Signature
385806	14:30	.999966	S20237	EPA	A-J-Patel	D.M
↓	↓	↓	↓	EPA	A-J-Patel	D.M.
380026	16:51	.999972	S20239	EPA	A-J-Patel	[illegible]
↓	↓	↓	↓	EPA	A-J-Patel	[illegible]
374644	17:50	.999702	S20239	EPA	A-J-Patel	D-M
367199	15:14	.999882	S20243	EPA	A-J-Patel	D-M
369642	16:34	.999599	S20243	EPA	A-J-Patel	[illegible]
360930	17:29	.999897	S20243	EPA	A-J-Patel	[illegible]
414958	15:11	.999952	S20261	EPA	A-J-Patel	D-M

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CHEMTECH 284 Sheffield Street, Mountainside NJ 07092

Mercury Calibration and Spiking Standard Preparation Log

Standard Name	Chemtech Prep. Log#	Preparation Date	Expiration Date	Signature
ICV 4.0 ppb	S20263	03/15/10	03/16/10	A-Patel
Log#	Volume Used mL of Stock	Reagent Log# and Description	Volume Used mL of Reagent	Final Volume
MM1798	2.5 mL	Concentrated HNO_3 Log# MR2178	2.5 ~~1.0mL~~ A.P. 03/15/10	One 250mL Volumetric Flasks each brought to volume with DI water.

Standard Name	Chemtech Prep. Log#	Preparation Date	Expiration Date	Signature
CHK STD 7.0 ppb	S20264	03/15/10	03/16/10	A-Patel
Stock Log#	Volume Used mL of Stock	Reagent Log# and Description	Volume Used mL of Reagent	Final Volume
S20260	7.0 mL	Concentrated HNO_3 Log# MR2178	2.5 ~~1.0mL~~ A.P. 03/15/10	One 250mL Volumetric Flasks each brought to volume with DI water.

Standard Name	Chemtech Prep. Log#	Preparation Date	Expiration Date	Signature
CCV 5.0 ppb	S20265	03/15/10	03/16/10	A-Patel
Stock Log#	Volume Used mL of Stock	Reagent Log# and Description	Volume Used mL of Reagent	Final Volume
S20260	5.0 mL	Concentrated HNO_3 Log# MR2178	2.5 ~~1.0mL~~ A.P. 03/15/10	One 250mL Volumetric Flasks each brought to volume with DI water.

M 3/15/10

CHEMTECH 284 Sheffield Street, Mountainside NJ 07092

Mercury Calibration and Spiking Standard Preparation Log

Daily

Standard Name	Chemtech Prep. Log#	Preparation Date	Expiration Date	Signature
Hg Intermediate A Standard 10.0ppm	MM1846			
Stock Log#	Volume Used mL of Stock	Reagent Log# and Description	Volume Used mL of Reagent	Brought to volume with DI water in Volumetric Flask 100mL
MM1846				
	1.0 mL	Concentrated HNO_3 Log #	1.0 mL	

Standard Name	Chemtech Prep. Log#	Preparation Date	Expiration Date	Signature
Intermediate B Hg Working Standard 250ppb	S20260	03/15/10	03/16/10	A-Patel
Stock Log#	Volume Used mL of Stock	Reagent Log# and Description	Volume Used mL of Reagent	Brought to volume with DI water in Volumetric Flask 100 mL
MM1846	2.5 mL of 10.0 ug/mL Hg Intermediate Standard from above	Concentrated HNO_3 Log # MR2178	2.5 ~~1.0mL~~ A.P. 03/15/10	
$SnCl_2$ Stock log# MR2150	Chemtech Prep log # Volume Used 50g of $SnCl_2$ S20261	Concentrated HCl Log# MR2155	Volume used in mL of Reagent 50mL	Brought to volume with DI water in Volumetric Flask 500 mL

Standard Name	Chemtech Prep. Log#	Preparation Date	Expiration Date	Signature
Calibration	S20262	03/15/10	03/16/10	A-Patel
Stock Log#	Volume Used mL of Stock	Reagent Log# and Description	Volume Used mL of Reagent	Comments
S20260	0.0mL	Concentrated HNO_3 Log# MR2178	2.5 ~~1.0mL~~ A.P. 03/15/10	Seven 250mL Volumetric Flasks each brought to volume with DI water.
	0.2mL			
	2.5mL			
	5.0mL			
	7.5mL			
	10.0mL			
	0.2mL for CRI			

M 3/15/10

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CHEMTECH 284 Sheffield Street, Mountainside NJ 07092

Mercury Calibration and Spiking Standard Preparation Log

Standard Name	Chemtech Prep. Log#	Preparation Date	Expiration Date	Signature
ICV 4.0 ppb	520257	03/12/10	03/13/10	[signature]
Log#	Volume Used mL of Stock	Reagent Log# and Description	Volume Used mL of Reagent	Final Volume
mm1798	2.5 mL	Concentrated HNO_3 Log# MR2178	2.5mL ~~1.0mL~~ p.m. 03/12/10	One 250mL Volumetric Flasks each brought to volume with DI water.

Standard Name	Chemtech Prep. Log#	Preparation Date	Expiration Date	Signature
CHK STD 7.0 ppb	520258	03/12/10	03/13/10	[signature]
Stock Log#	Volume Used mL of Stock	Reagent Log# and Description	Volume Used mL of Reagent	Final Volume
520254	7.0 mL	Concentrated HNO_3 Log# MR2178	2.5 mL ~~1.0mL~~ p.m. 03/12/10	One 250mL Volumetric Flasks each brought to volume with DI water.

Standard Name	Chemtech Prep. Log#	Preparation Date	Expiration Date	Signature
CCV 5.0 ppb	520259	03/12/10	03/13/10	[signature]
Stock Log#	Volume Used mL of Stock	Reagent Log# and Description	Volume Used mL of Reagent	Final Volume
520254	5.0 mL	Concentrated HNO_3 Log# MR2178	2.5 ~~1.0~~mL p.m. 03/12/10	One 250mL Volumetric Flasks each brought to volume with DI water.

p.m. 03/12/10

CHEMTECH 284 Sheffield Street, Mountainside NJ 07092

Mercury Calibration and Spiking Standard Preparation Log

Daily

Standard Name	Chemtech Prep. Log#	Preparation Date	Expiration Date	Signature
Hg Intermediate A Standard 10.0ppm	MM1846			
Stock Log#	Volume Used mL of Stock	Reagent Log# and Description	Volume Used mL of Reagent	Brought to volume with DI water in Volumetric Flask 100mL
MM1846	1.0 mL	Concentrated HNO_3 Log #	1.0 mL	

Standard Name	Chemtech Prep. Log#	Preparation Date	Expiration Date	Signature
Intermediate B Hg Working Standard 250ppb	520254	03/12/10	03/13/10	[signature]
Stock Log#	Volume Used mL of Stock	Reagent Log# and Description	Volume Used mL of Reagent	Brought to volume with DI water in Volumetric Flask 100 mL
MM1846	2.5 mL of 10.0 ug/mL Hg Intermediate Standard from above	Concentrated HNO_3 Log # MR2178	2.5 p.m. ~~1.0~~mL 03/12/10	
$SnCl_2$ Stock log# MR2149	Chemtech Prep log # Volume Used 50g of $SnCl_2$ 520255	Concentrated HCl Log# MR2189	Volume used in mL of Reagent 50mL	Brought to volume with DI water in Volumetric Flask 500 mL

Standard Name	Chemtech Prep. Log#	Preparation Date	Expiration Date	Signature
Calibration	520256	03/12/10	03/13/10	[signature]
Stock Log#	Volume Used mL of Stock	Reagent Log# and Description	Volume Used mL of Reagent	Comments
520254	0.0mL 0.2mL 2.5mL 5.0mL 7.5mL 10.0mL 0.2mL for CRI	Concentrated HNO_3 Log# MR2178	2.5 p.m. ~~1.0~~mL 03/12/10	Seven 250mL Volumetric Flasks each brought to volume with DI water.

p.m. 03/12/10

PLASMA-PURE TM

Standard Certificate

Catalog Number: 610-8002 **Lot Number:** 1052301

Starting Material: 99.999% purity Hg metal **Diluent/Matrix:** 5% HNO_3

Preparation Date: Dec-09 **Expiration Date:** Dec-10

Element	Concentration
Mercury Stock Solution	
Hg	10.00 µg/ml

MM 1846
Rec date:
12/11/09
A.P.

Residual Impurities *	Concentration
None Detected	

* Impurities were determined via ICP Emission Spectroscopy. Only elements detected are reported.

Traceability

1. This standard is certified using wet chemistry assay procedures and/or plasma emission spectroscopy, traceable to primary or well-characterized secondary standards. Traceable to: NIST SRM 3133, Hg Lot#991304
2. Analytical balances are routinely calibrated using NIST weight sets.

Certification

Leeman Labs, Inc. certifies that PLASMA-PURE Standards have been formulated to the concentrations listed above (±0.5% of reported value). This certification does not apply and will be considered null and void if PLASMA-PURE Standards are used in a manner or in an environment not consistent with their intended purpose or are modified by the Customer in any manner.

Limitations

THE ABOVE ARE EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES, WHETHER EXPRESS OR IMPLIED, INCLUDING THE IMPLIED WARRANTIES OF MECHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

Limitation of Liability

In no event shall Leeman Labs, Inc. be liable for any indirect, incidental, special, or consequential damages, including loss of profits, revenue, or used incurred by Customer or any third party, whether in an action in contract or tort. Leeman Labs Inc's liability for damages hereunder shall in no event exceed the amounts paid for the PLASMA-PURE Standards.

QC Analyst:

Date: December 3, 2009

ISO 9001:2000 QUALITY

TELEDYNE *Leeman Labs*
A Teledyne Technologies Company
6 Wentworth Drive . Hudson, NH 03051
Tel: 603.886.8400 Fax: 603.886.9141

FORM NUMBER 08-0028-1

Printed on

QATS INORGANIC REFERENCE MATERIAL
INITIAL CALIBRATION VERIFICATION SOLUTIONS
(ICVs)

ICV-4 (0499)	
Element	Concentration (µg/L) (after 10 fold dilution)
Cd	98.7
Pb	99.8
Ag	101.9
Tl	98.8

09/11/08

R: 09/11/08

ICV-5 (0508)	
Element	Concentration (µg/L) (after 100 fold dilution)
Hg	4.0

ICV-5 (0508) MM1798 To → MM1802

ICV-6 (0400)	
Element	Concentration (µg/L) (after 100 fold dilution)
CN-	99

09/11/08

LB48915 CN Raw Data

Calibration results AquaKem 6.5 Pa

Print date

3-11-2010

CHEMTECH
284 Sheffield street,
Mountainside, NJ 07092
Review by : Jom

11.03.2010 16:57

Test CN EPA

Analysis date 3-11-2010

Instrument ID # CN

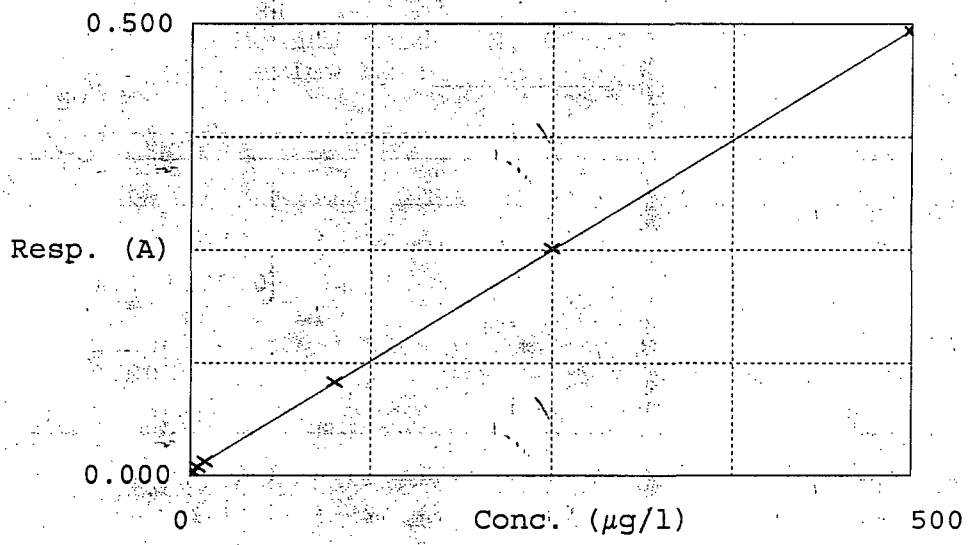
Accepted 11.03.2010 16:10

Factor 1022
Bias 0.005

CN Working std - WP1260-WP1266
CN CCV std - WP1267
CN CRI std - WP1268
0.25 N NaOH - W029555
Pyridine - W026060
CN Buffer - W026967
Chloramine T - WP1269

Coeff. of det. 0.999896

Errors



	Calibrator	Response	Calc. con.	Conc.	Errors
1	0.0PPBCN S 0	0.002	-2.9207	0.0000	
2	5.0PPBCN S 5.0	0.009	4.4633	5.0000	
3	10PPBCN S 10.0	0.016	11.2300	10.0000	
4	100PPBCN S 100.0	0.104	101.2347	100.0000	
5	250PPBCN S 250.0	0.252	252.5177	250.0000	
6	500PPBCN S 500.0	0.492	498.4750	500.0000	

CN Raw Data

Test results AquaKem 6.5 Pa

Print date

3-11-2010

CHEMTECH
284 Sheffield street,
Mountainside, NJ 07092
Review by : JM

11.03.2010 16:56

Test: CN EPA

ug/L

Sample Id	Result	Dil. 1 +	Response	Errors
ICVPB48207 ICV	95.871	0.0	0.098	
ICB1 ICB	0.149	0.0	0.005	
CRIWP1268a CRI	11.916	0.0	0.016	
CCVWP1267a CCV	245.408	0.0	0.245	
CCB1 CCB	0.727	0.0	0.005	
MID48207MIDRANGE	238.338	0.0	0.238	
PBW48207 PBW	-1.162	0.0	0.004	
LCSW48207 LCSW	96.998	0.0	0.100	
B1560-01 MF3FX7	0.410	0.0	0.005	
B1560-02 MF3FY1	-1.332	0.0	0.003	
B1560-03 MF3FY2	-1.067	0.0	0.004	
B1560-04 MF3FY3	-0.590	0.0	0.004	
B1560-05 MF3FY3D	-0.565	0.0	0.004	
B1560-06 MF3FY3S	95.933	0.0	0.099	
B1560-07 MF3FY4	-1.166	0.0	0.004	
CCVWP1267b CCV	256.820	0.0	0.256	
CCB2 CCB	0.660	0.0	0.005	
B1560-08 MF3FZ0	-1.145	0.0	0.004	
B1560-09 MF3FZ1	-1.594	0.0	0.003	
B1560-10 MF3FX8	-0.699	0.0	0.004	
B1560-11 MF3FX9	-1.570	0.0	0.003	
B1560-12 MF3FY6	-0.775	0.0	0.004	
B1560-13 MF3FY7	-2.803	0.0	0.002	
B1560-14 MF3FZ2	-1.775	0.0	0.003	
B1560-15 MF3FZ3	-0.538	0.0	0.004	
B1560-16 MF3FZ5	-1.153	0.0	0.004	
CRIWP1268b CRI	10.733	0.0	0.015	
CCVWP1267c CCV	235.974	0.0	0.236	
CCB3 CCB	0.313	0.0	0.005	
B1560-17 MF3FZ6	-1.468	0.0	0.003	
CRIWP1268c CRI	11.372	0.0	0.016	
CCVWP1267d CCV	251.027	0.0	0.250	
CCB4 CCB	0.257	0.0	0.005	

N	33
Mean	46.470
SD	89.9031
CV%	193.47

CN Raw Data

AquaKem v. 6.5 AQ1
Results from time period:
Thu Mar 11 16:10:19 2010
Thu Mar 11 16:56:27 2010

Sample Id	Sam/Ctr/cA	Test short	Test type	Result	Result unit	Result date and time
0.0PPBCN S 0	A	CN EPA	P	-2.9207	µg/l	3/11/2010 16:10:19
5.0PPBCN S 5.0	A	CN EPA	P	4.4633	µg/l	3/11/2010 16:10:20
10PPBCN S 10.0	A	CN EPA	P	11.23	µg/l	3/11/2010 16:10:21
100PPBCN S 100.0	A	CN EPA	P	101.2347	µg/l	3/11/2010 16:10:22
250PPBCN S 250.0	A	CN EPA	P	252.5177	µg/l	3/11/2010 16:10:23
500PPBCN S 500.0	A	CN EPA	P	498.475	µg/l	3/11/2010 16:10:24
ICVPB48207 ICV	S	CN EPA	P	95.8707	µg/l	3/11/2010 16:27:42
ICB1 ICB	S	CN EPA	P	0.1487	µg/l	3/11/2010 16:27:43
CRIWP1268a CRI	S	CN EPA	P	11.9161	µg/l	3/11/2010 16:27:44
CCVWP1267a CCV	S	CN EPA	P	245.4082	µg/l	3/11/2010 16:27:45
CCB1 CCB	S	CN EPA	P	0.7275	µg/l	3/11/2010 16:27:46
MID48207MIDRANGE	S	CN EPA	P	238.3377	µg/l	3/11/2010 16:27:47
PBW48207 PBW	S	CN EPA	P	-1.1622	µg/l	3/11/2010 16:27:48
LCSW48207 LCSW	S	CN EPA	P	96.9976	µg/l	3/11/2010 16:27:49
B1560-01 MF3FX7	S	CN EPA	P	0.4101	µg/l	3/11/2010 16:27:50
B1560-02 MF3FY1	S	CN EPA	P	-1.3323	µg/l	3/11/2010 16:27:51
B1560-03 MF3FY2	S	CN EPA	P	-1.0666	µg/l	3/11/2010 16:27:52
B1560-04 MF3FY3	S	CN EPA	P	-0.5895	µg/l	3/11/2010 16:30:25
B1560-05 MF3FY3D	S	CN EPA	P	-0.5654	µg/l	3/11/2010 16:35:38
B1560-06 MF3FY3S	S	CN EPA	P	95.9331	µg/l	3/11/2010 16:35:39
B1560-07 MF3FY4	S	CN EPA	P	-1.166	µg/l	3/11/2010 16:35:40
CCVWP1267b CCV	S	CN EPA	P	256.8197	µg/l	3/11/2010 16:35:41
CCB2 CCB	S	CN EPA	P	0.6598	µg/l	3/11/2010 16:35:42
B1560-08 MF3FZ0	S	CN EPA	P	-1.1448	µg/l	3/11/2010 16:35:43
B1560-09 MF3FZ1	S	CN EPA	P	-1.5935	µg/l	3/11/2010 16:39:35
B1560-10 MF3FX8	S	CN EPA	P	-0.6989	µg/l	3/11/2010 16:39:36
B1560-11 MF3FX9	S	CN EPA	P	-1.5698	µg/l	3/11/2010 16:44:45
B1560-12 MF3FY6	S	CN EPA	P	-0.7752	µg/l	3/11/2010 16:44:46
B1560-13 MF3FY7	S	CN EPA	P	-2.8031	µg/l	3/11/2010 16:44:47
B1560-14 MF3FZ2	S	CN EPA	P	-1.7749	µg/l	3/11/2010 16:44:48
B1560-15 MF3FZ3	S	CN EPA	P	-0.5376	µg/l	3/11/2010 16:44:49
B1560-16 MF3FZ5	S	CN EPA	P	-1.1534	µg/l	3/11/2010 16:44:50
CRIWP1268b CRI	S	CN EPA	P	10.7333	µg/l	3/11/2010 16:51:08
CCVWP1267c CCV	S	CN EPA	P	235.9742	µg/l	3/11/2010 16:56:22
CCB3 CCB	S	CN EPA	P	0.3134	µg/l	3/11/2010 16:56:23
B1560-17 MF3FZ6	S	CN EPA	P	-1.4684	µg/l	3/11/2010 16:56:24
CRIWP1268c CRI	S	CN EPA	P	11.3725	µg/l	3/11/2010 16:56:25
CCVWP1267d CCV	S	CN EPA	P	251.0268	µg/l	3/11/2010 16:56:26
CCB4 CCB	S	CN EPA	P	0.2568	µg/l	3/11/2010 16:56:27

CN Sequence Log

Segment report AquaKem 6.5 Page:

CHEMTECH
284 Sheffield street,
Mountainside, NJ 07092
Review by : J h

3-11-2010

Date : 2010-03-11
Time : 16.41

Segment: 1

Position	Sample	Test	Result
1	0.0PPBCN		
2	5.0PPBCN		
3	10PPBCN		
4	100PPBCN		
5	250PPBCN		
6	500PPBCN		
7			
8			
9			
10			
11			
12			
13			
14			

CN Sequence Log

Segment report AquaKem 6.5 Page:

CHEMTECH
284 Sheffield street,
Mountainside, NJ 07092
Review by : JM

3-11-10

Date : 2010-03-11
Time : 16.42

Segment: 2

Position	Sample	Test	Result
1	ICVPB48207 ICV	CN EPA	
2	ICB1 ICB	CN EPA	
3	CRIWP1268a CRI	CN EPA	
4	CCVWP1267a CCV	CN EPA	
5	CCB1 CCB	CN EPA	
6	MID48207MIDRANGE	CN EPA	
7	PBW48207 PBW	CN EPA	
8	LCSW48207 LCSW	CN EPA	
9	B1560-01 MF3FX7	CN EPA	
10	B1560-02 MF3FY1	CN EPA	
11	B1560-03 MF3FY2	CN EPA	
12	B1560-04 MF3FY3	CN EPA	
13	B1560-05 MF3FY3D	CN EPA	
14	B1560-06 MF3FY3S	CN EPA	

JM
3-11-10

CN Sequence Log

Segment report AquaKem 6.5 Page:

CHEMTECH
284 Sheffield street,
Mountainside, NJ 07092
Review by : JR

3-11-2010

Date : 2010-03-11
Time : 16.43

Segment: 3

Position	Sample	Test	Result
1	B1560-07 MF3FY4	CN EPA	
2	CCVWP1267b CCV	CN EPA	
3	CCB2 CCB	CN EPA	
4	B1560-08 MF3FZ0	CN EPA	
5	B1560-09 MF3FZ1	CN EPA	
6	B1560-10 MF3FX8	CN EPA	
7	B1560-11 MF3FX9	CN EPA	
8	B1560-12 MF3FY6	CN EPA	
9	B1560-13 MF3FY7	CN EPA	
10	B1560-14 MF3FZ2	CN EPA	
11	B1560-15 MF3FZ3	CN EPA	
12	B1560-16 MF3FZ5	CN EPA	
13	CRIWP1268b CRI	CN EPA	
14	CCVWP1267c CCV	CN EPA	

JR
3-11-10

CN Sequence Log

Segment report AquaKem 6.5 Page:

CHEMTECH
284 Sheffield street,
Mountainside, NJ 07092

3-11-2010
Date : 2010-03-11
Time : 16.45
Review by : Jm

Segment: 4

Position	Sample	Test	Result
1	CCB3 CCB	CN EPA	
2	B1560-17 MF3FZ6	CN EPA	
3	CRIWP1268c CRI	CN EPA	
4	CCVWP1267d CCV	CN EPA	
5	CCB4 CCB	CN EPA	
6			
7			
8			
9			
10			
11			
12			
13			
14			

Jm
3-11-10

CHEMTECH 284 Sheffield Street Mountainside, NJ 07092

CN Instrument Log

INSTRUMENT MAINTENANCE	Supervisor Review	Parameter/ Date	Method	Project #/Batch Id
1	JN	3-12-10	FLM05.3	B1560 B1584
		JN 3-12-10		
2	JN	3-11-10	FLM05.3	B1560
3		JN 3-12-10		

CHEMTECH 284 Sheffield Street Mountainside, NJ 07092

CN Instrument Log

KONELAB ANALYSIS LOGBOOK

	DATE	Analyst	START	END	STANDARD CONCENTRATION RESPONSE					
		Analyte	TIME	TIME	STD 1	STD 2	STD 3	STD 4	STD 5	STD 6
1	3-12-10	Jim	19:11	20:00	0	5	10	100	250	500
					0.006	0.013	0.018	0.108	0.258	0.497

REAGENTS USED	CHEMTECH LOT#	REAGENTS USED	CHEMTECH LOT#
Calibration standard ~~CRI STD 10 PPB~~	WP1307-WP1313	Pyridine	W026060
0.25 N NaOH (ICB,CCB)	W029555	Cyanide Buffer	W026967
CRI 10 ppb	WP1315	Chloramine T	WP1316

JR 3-12-10

	DATE	Analyst	START	END	STANDARD CONCENTRATION RESPONSE					
		Analyte	TIME	TIME	STD 1	STD 2	STD 3	STD 4	STD 5	STD 6
2	3-11-10	Jim	16:10	16:56	0	5	10	100	250	500
					0.002	0.009	0.016	0.104	0.252	0.498

REAGENTS USED	CHEMTECH LOT#	REAGENTS USED	CHEMTECH LOT#
Calibration standard ~~CRI STD 10 PPB~~	WP1260-WP1266	Pyridine	W026060
0.25 N NaOH (ICB,CCB)	W029555	Cyanide Buffer	W026967
CRI 10 ppb	WP1268	Chloramine T	WP1269

	DATE	Analyst	START	END	STANDARD CONCENTRATION RESPONSE					
		Analyte	TIME	TIME	STD 1	STD 2	STD 3	STD 4	STD 5	STD 6
3										

REAGENTS USED	CHEMTECH LOT#	REAGENTS USED	CHEMTECH LOT#
Calibration standard CRI STD 10 PPB		Pyridine	
0.25 N NaOH (ICB,CCB)		Cyanide Buffer	
		Chloramine T	

JR 3-12-10

314

CHEMTECH

284, Sheffield Street, Mountainside NJ 07092 (908) 789 - 8900

Wet Chemistry STANDARD PREPARATION LOG

RecipeID	NAME	NO.	Prep Date	Expiration D	Prepared By
2	Intermediate Cyanide Standard Solution 50 ppm	WP1258	03/11/2010	03/12/2010	jmoore
FROM	5.000ml of RC2543-4 / CYANIDE STD 1000PPM 4OZ(W1109) + 95.000ml of WR11 / Intermediate Cyanide Standard Solution 50 ppm(WP1005) = Final Quantity: 100.000				

RecipeID	NAME	NO.	Prep Date	Expiration D	Prepared By
3	Standard Cyanide Working Solution 5 ppm	WP1259	03/11/2010	03/12/2010	jmoore
FROM	10.000ml of WR2 / Standard Cyanide Working Solution 5 ppm(WP1258) + 90.000ml of WR11 / Standard Cyanide Working Solution 5 ppm(WP1005) = Final Quantity: 100.000				

RecipeID	NAME	NO.	Prep Date	Expiration D	Prepared By
4	Calibation standard 500 ppb	WP1260	03/11/2010	03/12/2010	jmoore
FROM	10.000ml of WR3 / Calibation standard 500 ppb(WP1259) + 90.000ml of WR11 / Calibation standard 500 ppb(WP1005) = Final Quantity: 100.000				

RecipeID	NAME	NO.	Prep Date	Expiration D	Prepared By
5	Calibration Standard 250 ppb	WP1261	03/11/2010	03/12/2010	jmoore
FROM	5.000ml of WR3 / Calibration Standard 250 ppb(WP1259) + 95.000ml of WR11 / Calibration Standard 250 ppb(WP1005) = Final Quantity: 100.000				

RecipeID	NAME	NO.	Prep Date	Expiration D	Prepared By
6	Calibration Standard 100 ppb	WP1262	03/11/2010	03/12/2010	jmoore
FROM	2.000ml of WR3 / Calibration Standard 100 ppb(WP1259) + 98.000ml of WR11 / Calibration Standard 100 ppb(WP1005) = Final Quantity: 100.000				

RecipeID	NAME	NO.	Prep Date	Expiration D	Prepared By
7	Calibration Standard 50 ppb	WP1263	03/11/2010	03/12/2010	jmoore
FROM	1.000ml of WR3 / Calibration Standard 50 ppb(WP1259) + 99.000ml of WR11 / Calibration Standard 50 ppb(WP1005) = Final Quantity: 100.000				

CHEMTECH

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Wet Chemistry STANDARD PREPARATION LOG

RecipeID	NAME	NO.	Prep Date	Expiration D	Prepared By
8	Calibration Standard 10 ppb	WP1264	03/11/2010	03/12/2010	jmoore
FROM	2.000ml of WR4 / Calibration Standard 10 ppb(WP1260) + 98.000ml of WR11 / Calibration Standard 10 ppb(WP1005) = Final Quantity: 100.000				

RecipeID	NAME	NO.	Prep Date	Expiration D	Prepared By
9	Calibration Standard 5 ppb	WP1265	03/11/2010	03/12/2010	jmoore
FROM	1.000ml of WR4 / Calibration Standard 5 ppb(WP1260) + 99.000ml of WR11 / Calibration Standard 5 ppb(WP1005) = Final Quantity: 100.000				

RecipeID	NAME	NO.	Prep Date	Expiration D	Prepared By
167	0 ppb CN calibration std	WP1266	03/11/2010	03/12/2010	jmoore
FROM	100.000ml of WR11 / 0 ppb CN calibration std(WP1005) = Final Quantity: 100.000				

RecipeID	NAME	NO.	Prep Date	Expiration D	Prepared By
271	CN CCV STD	WP1267	03/11/2010	03/12/2010	jmoore
FROM	5.000ml of WR3 / CN CCV STD(WP1259) + 95.000ml of WR11 / CN CCV STD(WP1005) = Final Quantity: 100.000				

RecipeID	NAME	NO.	Prep Date	Expiration D	Prepared By
272	CN CRI STD	WP1268	03/11/2010	03/12/2010	jmoore
FROM	2.000ml of WR4 / CN CRI STD(WP1260) + 98.000ml of WR11 / CN CRI STD(WP1005) = Final Quantity: 100.000				

RecipeID	NAME	NO.	Prep Date	Expiration D	Prepared By
10	Chloramine T solution	WP1269	03/11/2010	03/18/2010	jmoore
FROM	1.000gram of JTE494-6 / CHLORAMINE-T BAKER 250GM(W1120) = Final Quantity: 100.000				

CHEMTECH

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Wet Chemistry STANDARD PREPARATION LOG

RecipeID	NAME	NO.	Prep Date	Expiration D	Prepared By
11	Sodium hydroxide absorbing solution 0.25 N	WP1005	02/23/2010	08/24/2010	jmoore

FROM 2.1009 of PC19510-5 / Sodium Hydroxide Pellets 2.5 Kg, Pk of 4(W1015) = Final Quantity: ~~1.000~~ 2 L

CHEMTECH

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Wet Chemistry STANDARD PREPARATION LOG

RecipeID	NAME	NO.	Prep Date	Expiration D	Prepared By
13	Magnesium Chloride solution 51% w/v	WP1004	02/23/2010	08/23/2010	jmoore
FROM	490.000L of DIW / DI Water(W1152) + 510.000L of J2444-7 / MAGNESIUM CHLORIDE, 6-HYD, CRYS, 12KG(W1153) = Final Quantity: 1.000				

CHEMTECH

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Wet Chemistry STANDARD PREPARATION LOG

RecipeID	NAME	NO.	Prep Date	Expiration D	Prepared By
14	Sulfuric Acid 50% v/v	WP1130	03/03/2010	09/03/2010	roberto
FROM	1000.000L of BA-9673-33 / Sulfuric Acid, Instra-Analyzed (cs/6c2.5L)(M1064) + 1000.000L of DIW / DI Water(W1152) = Final Quantity: 2.000				

General Chemistry

Standard Preparation Log

Name	NO.	Prep date	Expiration Date	SIGNATURE
Pyridine-Barbituric Soln	W026060	07-17-09	01-16-10	V Daftary

FROM 15g of Barbituric acid W020560 + 15 mL of concentrated HCl MB 1729 + 75mL of pyridine W020636
→250 mL w/ DI

NAME	NO.	Prep Date	Expiration Date	SIGNATURE
Cr^6 Int Std	W026061	07-17-09	07-17-09	V Daftary

FROM
5ppm - 10mL of Cr^6 stock std W025787
→100mL w/ DI

NAME	NO.	Prep Date	Expiration Date	SIGNATURE
Cr^6 Int Std	W026062	07-17-09	07-17-09	V Daftary

FROM
5ppm - 10mL of Cr^6 stock std W025794
→100 mL w/ DI

NAME	NO.	Prep Date	Expiration Date	SIGNATURE
Cr^6 Working Std	W026063	07-17-09	07-17-09	V Daftary

FROM VD 7-20-09
~~5ppm - 10mL of Cr^6 stock std w/~~
A 1.0ppm - 20
B 0.5ppm - 10
C 0.3ppm - 6
D 0.1ppm - 2
E 0.05ppm - 1
F 0ppm - 0
} mL of Cr^6 int std W026061
→100 mL w/ DI

Standard Preparation Log

Name	NO.	Prep date	Expiration Date	SIGNATURE
CN Phosphate Buffer	W026967	10-13	4-12-10	JA

FROM 138 g of Mono Mono Phosphate WC0791 brng to 1000 mL w/DI

NAME	NO.	Prep Date	Expiration Date	SIGNATURE
COD working std	W026968	10-13-09	10-13-09	[illegible]

FROM

JA 11-17-01

NAME	NO.	Prep Date	Expiration Date	SIGNATURE
Phenol Stock Std	W026969	10-13	4-12-10	

Source 1

FROM 1 g of Phenol WC1265 brng to 1000 mL w/DI

NAME	NO.	Prep Date	Expiration Date	SIGNATURE
Phenol Stock Std	W026970	10-13	4-12-10	

Source 2

FROM 1 g of Phenol WC0800 brng to 1000 mL w/DI

CHEMTECH

284, Sheffield Street, Mountainside NJ 07092 (908) 789 - 8900

Wet Chemistry STANDARD PREPARATION LOG

RecipeID	NAME	NO.	Prep Date	Expiration D	Prepared By
294	Working Std for CN Spike (5 ppm)	WP1279	03/11/2010	04/30/2010	jmoore
FROM	5.000ml of RC2543-4 / CYANIDE STD 1000PPM 4OZ(W1109) + 995.000ml of WR11 / Working Std for CN Spike (5 ppm)(WP1005) = Final Quantity: 1000.000				

284 Sheffield Street, Mountainside NJ 07092 (908) 789-8900

INORGANICExtractables Standard Receipt Logbook

Supplier R1/10/02/08	Standard Catalog #	Lot #	Expiration Date	Date Opened	Initials	Chemtech Lot #
QATS LAB	89-000 LCS-CN(0899)	NA	7-19-09	1-20-09	[illegible]	MM1614

Supplier R1/10/02/08	Standard Catalog #	Lot #	Expiration Date	Date Opened	Initials	Chemtech Lot #
QATS LAB	89-000 LCS-CN(0899)	NA	1-17-10	7-18-09	[illegible]	MM1615

Supplier R1/10/02/08	Standard Catalog #	Lot #	Expiration Date	Date Opened	Initials	Chemtech Lot #
QATS LAB	89-000 LCS-CN(0899)	NA	4-14-10	10-15-09	[illegible]	MM1616

Supplier R1/10/02/08	Standard Catalog #	Lot #	Expiration Date	Date Opened	Initials	Chemtech Lot #
QATS LAB	89-000 LCS-CN(0899)	NA				MM1617

Supplier R1/10/21/08	Standard Catalog #	Lot #	Expiration Date	Date Opened	Initials	Chemtech Lot #
Inorganic Vent	WW-LFS-1	B2-MEB236048	11/01/09	11/11/08	NP	MM1618

Supplier R1/10/21/08	Standard Catalog #	Lot #	Expiration Date	Date Opened	Initials	Chemtech Lot #
Inorganic Vent	WW-LFS-2	B2-MEB236045	11/01/09	11/11/08	NP	MM1619

Supplier R1/10/21/08	Standard Catalog #	Lot #	Expiration Date	Date Opened	Initials	Chemtech Lot #
Inorganic Vent	WW-LFS-1	B2-MEB236048	11/01/09	12/02/08	NP	MM1620

Supervisor Review: [illegible] Date: 1-20-09

INORGANICExtractables Standard Receipt Logbook

Supplier	Standard Catalog #	Lot #	Expiration Date	Date Opened	Initials	Chemtech Lot #
Inorg. Ventures	ICS-LCS-2 10/31/08	B8-AIEB 2360495	15th Nov. 2009	10/21/08	MT	MM1607

Supplier	Standard Catalog #	Lot #	Expiration Date	Date Opened	Initials	Chemtech Lot #
R 10/02/08 QATS LAB	89-000 ICV-6(04100) CN	NA	4-28-09	10-29-08	SJ	MM1608

Supplier	Standard Catalog #	Lot #	Expiration Date	Date Opened	Initials	Chemtech Lot #
R 10/02/08 QATS LAB	89-000 ICV-6(04100) CN	NA	7-19-09	1-20-09	SJ	MM1609

Supplier	Standard Catalog #	Lot #	Expiration Date	Date Opened	Initials	Chemtech Lot #
R 10/02/08 QATS LAB	89-000 ICV-6(04100) CN	NA	1-17-10	7-18-09	JA	MM1610

Supplier	Standard Catalog #	Lot #	Expiration Date	Date Opened	Initials	Chemtech Lot #
R 10/02/08 QATS LAB	89-000 ICV-6(04100) CN	NA	4-14-10	10-15-09	JA	MM1611

Supplier	Standard Catalog #	Lot #	Expiration Date	Date Opened	Initials	Chemtech Lot #
R 10/02/08 QATS LAB	89-000 ICV-6(04100) CN	NA				MM1612

Supplier	Standard Catalog #	Lot #	Expiration Date	Date Opened	Initials	Chemtech Lot #
R 10/02/08 QATS-LAB	89-000 ~~ICV-6(04100)~~ ~~LCS CN(04074)~~	NA	4-28-09	10-29-08	SJ	MM1613

10/02/08

Supervisor Review: SJ Date: 1-20-09

CHEMTECH

REAGENT/CHEMICAL
STOCK LOG BOOK

SUPPLIER	REAGENT/ CHEMICAL	LOT#	DATE OPENED	DATE EXP.	INITIALS	STOCK#
FROM:	1 LLtr.		Rcd			
Anachemia	Alkaline-Iodide Na-Azide 30L	200-501	5/6/02 OD-5/6/02	N/A	MP	WC0627
SUPPLIER	REAGENT/ CHEMICAL	LOT#	DATE OPENED	DATE EXP.	INITIALS	STOCK#
FROM:	1 Ltr x 2		Rcd			
Fisher	K. Bi-Iodate 0.025 N C N/40	0135-46-24	5/6/02 OD-5/6/02	8/30/03	MP	WC0628
SUPPLIER	REAGENT/ CHEMICAL	LOT#	DATE OPENED	DATE EXP.	INITIALS	STOCK#
FROM:						WC0629
EPA	LCS-CN (0996). EPA TV-112 PPB.	LCS-CN (0996).	5/7/02	—	Sejal	~~WC0629~~ ~~WC0~~ Sejal 5/7/02
SUPPLIER	REAGENT/ CHEMICAL	LOT#	DATE OPENED	DATE EXP.	INITIALS	STOCK#
FROM:						
Spectrum	Potassium Perchlorate	LE0222		—	JAA	WC0630
SUPPLIER	REAGENT/ CHEMICAL	LOT#	DATE OPENED	DATE EXP.	INITIALS	STOCK#
FROM:						
J.T.Baker	Potassium Perchlorate crystal	N31589	8/30/01		JAA	WC0631
SUPPLIER	REAGENT/ CHEMICAL	LOT#	DATE OPENED	DATE EXP.	INITIALS	STOCK#
FROM:						WC0632
Anachemia.	Sodium hypochlorite	990701	5/30/02	11/29/02	S.	~~WC0632~~ X1 10XLL Sejal 5/30/02
SUPPLIER	REAGENT/ CHEMICAL	LOT#	DATE OPENED	DATE EXP.	INITIALS	STOCK#
FROM:						
J.T Baker	Pyridine	15470	5/30/02	—	S	WC0633 X1 & X2
SUPPLIER	REAGENT/ CHEMICAL	LOT#	DATE OPENED	DATE EXP.	INITIALS	STOCK#
FROM:						
Anachemia	Ammonium chloride	890107	5/30/02	—	S	WC0634

Supervisor Sign. [signature]

Page # 000075

CHEMTECH

REAGENT/CHEMICAL
STOCK LOG BOOK

SUPPLIER	REAGENT/ CHEMICAL	LOT#	DATE OPENED	DATE EXP.	INITIALS	STOCK#
FROM:						
Orion	PH 7.00 Buffer	9 [illegible]		7/05	hjp	WC0801 x1, x2, x3, x4, x5, x6
SUPPLIER	REAGENT/ CHEMICAL	LOT#	DATE OPENED	DATE EXP.	INITIALS	STOCK#
FROM:			hjp 10/9/03			
BECKMAN	PH 7.00 Buffer	M 302086	~~2/28/06~~	2/28/06	hjp	WC0802 x1, x2, x3, x4, x5, x6
SUPPLIER	REAGENT/ CHEMICAL	LOT#	DATE OPENED	DATE EXP.	INITIALS	STOCK#
FROM:						
Environmental Express	Cod VIAIS Low Level (0-150)	—	10/9/03		hjp	WC0803 x1, x2, x3
SUPPLIER	REAGENT/ CHEMICAL	LOT#	DATE OPENED	DATE EXP.	INITIALS	STOCK#
FROM:						
Environmental Express	Cod VIAIS High Level (0-1500)	—	10/9/03	hjp		WC0804 x1, x2, x3
SUPPLIER	REAGENT/ CHEMICAL	LOT#	DATE OPENED	DATE EXP.	INITIALS	STOCK#
FROM:						
J.T. Baker	Acetic Acid Glacial 500 ML x10	F27-827	Rod 10/14/03	N/A	hp	WC0805
SUPPLIER	REAGENT/ CHEMICAL	LOT#	DATE OPENED	DATE EXP.	INITIALS	STOCK#
FROM:						
J.T. Baker	Barbituric Acid 100g	Y32603	10/27/03		SB	WC0806 x1 x2 x3 x4 x5 x6
SUPPLIER	REAGENT/ CHEMICAL	LOT#	DATE OPENED	DATE EXP.	INITIALS	STOCK#
FROM:						
J.T Baker	Potassium Sodium Tartrate 4-Hydrate 500g Crystal	X24344	10/27/03		SB	WC0807 X1 X2
SUPPLIER	REAGENT/ CHEMICAL	LOT#	DATE OPENED	DATE EXP.	INITIALS	STOCK#
FROM:						
J.T BAKER	Ferric Nitrate 9-Hydrate Crystal	X43638	10/27/03		SB	WC0808 X1 X2

Supervisor Sign.:___ Page # 000098

CHEMTECH

284. Sheffield Street. Mountainside NJ 07092 (908) 789 - 8900

Wet Chemistry CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19510-5 / Sodium Hydroxide Pellets 2.5 Kg, Pk of 4	ab56432	09/14/2014	10/06/2009 /	09/14/2009 / divya	W1015

Supervisor Review : JR

Date : 3-11-10

CHEMTECH

284, Sheffield Street, Mountainside NJ 07092 (908) 789 - 8900

Metals CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9673-33 / Sulfuric Acid, Instra-Analyzed (cs/6c2.5L)	G35026	10/28/2014	11/02/2009 /	10/28/2009 / alpa	M1064

Supervisor Review : _____ Date : 3-11-10

CHEMTECH

284, Sheffield Street, Mountainside NJ 07092 (908) 789 - 8900

Wet Chemistry CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Lab certified	02/23/2015	02/23/2010 /	02/23/2010 / divya	W1152

Supervisor Review : _____ Date : 3-11-10

CHEMTECH

284, Sheffield Street, Mountainside NJ 07092 (908) 789 - 8900

Wet Chemistry CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	RC2543-4 / CYANIDE STD 1000PPM 4OZ	2910259	04/30/2010	03/03/2010 /	11/15/2009 / jmoore	W1109

Supervisor Review : J.R. Date : 3-11-10

CHEMTECH

284, Sheffield Street, Mountainside NJ 07092 (908) 789 - 8900

Wet Chemistry CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	J2444-7 / MAGNESIUM CHLORIDE, 6-HYD, CRYS, 12KG	sr0273	09/29/2013	03/03/2010 /	02/03/2010 / jmoore	W1153

Supervisor Review : JM Date : 3-11-10

INSTRUCTIONS.

CAUTION: Read instructions carefully before opening bottles and proceeding with th analysis.

[illegible]

(A) *SAMPLE DESCRIPTION*

Enclosed is a solid reference material composed of sand which contains Iron (III) Cyanid

(B) *BREAKAGE OR MISSING ITEMS*

Check the contents of the shipment carefully for any broken, leaking, or missing items. Check that the seal is intact on each bottle. Refer to the enclosed chain-of-custody recor Report any problems to Mr. Michael Zimmerman, Shaw Environmental, Inc. at (702) 895-8730. Return the chain-of-custody record with appropriate annotations and signatures to the address provided below.

QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
Shaw Environmental, Inc.
2700 Chandler Ave - Bldg C
Las Vegas, NV 89120

This solid laboratory control sample was prepared by the Quality Assurance Technical Support (QATS) Laboratory operated by Shaw Environmental Inc. under contract to the EPA. This material requires acid distillation to release cyanide. Use a five gram aliquot for macro-distillation or a one gram aliquot for midi-distillation. The "true value" concentration and control limits were derived from the results of an EPA multi-laboratory analysis of the solid material by Contract Laboratory Program procedures. The "True Value" concentration and control limits are listed in the table below.

TRUE VALUE CONCENTRATION AND CONTROL LIMITS FOR CYANIDE IN THE SOLID LABORATORY CONTROL SAMPLE CYANIDE LCS-CN (0899)

Analyte	True Value (mg/Kg)	Control Limits (mg/Kg)
CN	9.6	7.4 - 11.8

Q:\Forms\PEINSTR\LCS-CN.doc QATS Form 20-007F060R04, 04-20-2007

Element	Concentration (µg/L) (after 100 fold dilution)
Cd	98.7
Pb	99.8
Ag	101.9
Tl	98.0

ICV-5 (0.1040)	
Element	Concentration (µg/L) (after 100 fold dilution)
Hg	4.1

ICV-6 (0.4000)	
Element	Concentration (µg/L) (after 100 fold dilution)
CN-	99

RICCA CHEMICAL COMPANY

Arlington, TX 76012
Pocomoke City, MD 21851
Batesville, IN 47006
http://www.riccachemical.com
1-888-GO-RICCA
customerservice@riccachemical.com

Certificate of Analysis

Cyanide Standard, 1 mL = 1 mg CN, 1000 ppm CN

Lot Number: 2910259 Product Number: 2543 Expiration Date: APR 2010 Manufacture Date:10/9/2009

The certified value reported is the prepared value based upon the method of preparation of the material. The uncertainty in the prepared value is based upon the volumetric method of preparation.

Contains:

Name	CAS#	Grade
Potassium Cyanide, KCN	151-50-8	ACS
Sodium Hydroxide, NaOH	1310-73-2	ACS
Water, Deionized, H2O	7732-18-5	ACS, ASTM D 1193 (Type I), BP, USP

Test Name	Assay Method	Specification	Result
Appearance	Clarity, Color, Odor	Clear, colorless, cyanide odor	Passed Test
Certified Concentration	Based on accurate volumetric preparation	1000 ± 5 ppm CN-	1000 ppm CN-

Specification	Reference	Method Number
Stock Standard Cyanide Solution	APHA	4500-CN- F
Stock Cyanide Solution	APHA	4500-CN- E
Stock Cyanide Solution	APHA	4500-CN- K
Stock Cyanide Solution	APHA	4500-CN- H
Cyanide Reference Solution (1000 mg/L)	EPA (SW-846)	7.3.3.2
Cyanide Calibration Stock Solution (1,000 mg/L CN-)	EPA (SW-846)	9213
Stock Cyanide Solution	EPA	335.3
Stock Cyanide Solution	EPA	335.2
Cyanide Solution Stock	ASTM	D 4282
Simple Cyanide Solution, Stock (1.0 g/L CN)	ASTM	D 4374

Use 0.16% (w/v) (0.04 N) Sodium Hydroxide or 0.225 % (w/v) (0.04 N) Potassium Hydroxide to make dilutions of this standard. Restandardize weekly if extreme accuracy is required.

Shelf Life (unopened container):

Part Number	Shelf Life
2543-4	6 months
2543-32	6 months
2543-16	6 months

Recommended Storage: 2°C - 8°C (36°F - 46°F)

LaNelle Ohlhausen
Quality Assurance

This Certificate of Analysis is designed to comply with ISO Guide 31 "Reference Materials – Contents of Certificates and Labels."
To determine manufacturing site using lot number, visit www.riccachemical.com/AboutUs/lot.pdf.

WC1366
W 1109

Version: 1

LB48937 CN Raw Data

Calibration results AquaKem 6.5 Pa

Print date

3-12-2010

CHEMTECH
284 Sheffield street,
Mountainside, NJ 07092
Review by : J M

12.03.2010 20:06

Test CN EPA

Analysis date 3-12-2010

Instrument FP# CN

Accepted 12.03.2010 19:11

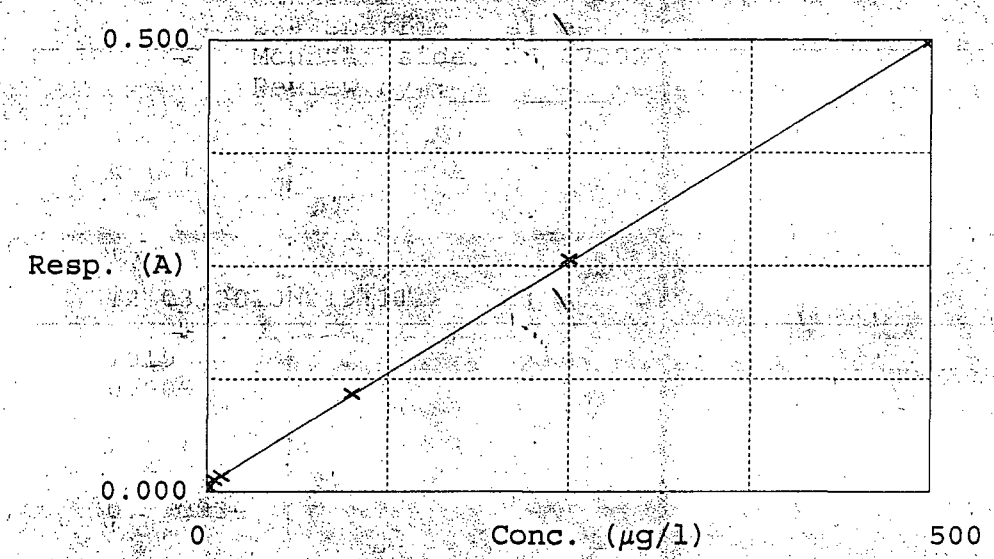
Factor 1019

Bias 0.009

CN Working Stds - WP1307-WP1313
CN CCV Std - WP1314
CN CRI Std - WP1315
0.25 N NaOH - W029555
Pyridine - W026060
CN Buffer - W026967
Chloramine T - WP1316

Coeff. of det. 0.999835

Errors



	Calibrator	Response	Calc. con.	Conc.	Errors
1	0.0PPBCN S0	0.006	-2.9469	0.0000	
2	5.0PPBCN S5.0	0.013	4.8732	5.0000	
3	10PPBCN S10.0	0.018	9.6611	10.0000	
4	100PPBCN S100.0	0.108	101.8113	100.0000	
5	250PPBCN S250.0	0.258	253.9112	250.0000	
6	500PPBCN S500.0	0.497	497.6902	500.0000	

CN Raw Data

Test results AquaKem 6.5 Pa

Print Date

3-12-2010

CHEMTECH
284 Sheffield street,
Mountainside, NJ 07092
Review by : JM

12.03.2010 20:05

Test: CN EPA

ug/L

Sample Id	Result	Dil. 1 +	Response	Errors
ICVPB48226 ICV	97.341	0.0	0.104	
ICVPB48227 ICV	96.626	0.0	0.103	
ICB1 ICB	-0.882	0.0	0.008	
CRIWP1315a CRI	9.740	0.0	0.018	
CCVWP1314a CCV	242.563	0.0	0.247	
CCB1 CCB	-1.758	0.0	0.007	
MID48226MIDRANGE	245.415	0.0	0.249	
MID48227MIDRANGE	247.221	0.0	0.251	
PBW48226 PBW	-0.880	0.0	0.008	
PBS48227 PBS	-1.213	0.0	0.007	
LCSW48226 LCSW	98.002	0.0	0.105	
LCSS48227 LCSS	212.030	0.0	0.217	
B1560-18 MF3FY0	-1.778	0.0	0.007	
B1560-19 MF3FY8	-1.921	0.0	0.007	
B1560-20 MF3FZ8	-1.728	0.0	0.007	
B1560-21 MF3G01	-0.874	0.0	0.008	
CCVWP1314b CCV	262.701	0.0	0.266	
CCB2 CCB	-1.884	0.0	0.007	
B1584-01 ME4EG5	0.112	0.0	0.009	
B1584-02 ME4EG6	-2.976	0.0	0.006	
B1584-03 ME4EG7	4.096	0.0	0.013	
B1584-05 ME4EH4	1.026	0.0	0.010	
B1584-06 ME4EH4D	1.641	0.0	0.010	
B1584-04 ME4EG8	-1.312	0.0	0.007	
B1584-07 ME4EH4S	97.287	0.0	0.104	
B1584-08 ME4EH5	0.199	0.0	0.009	
B1584-09 ME4EH6	-2.847	0.0	0.006	
CRIWP1315b CRI	8.443	0.0	0.017	
CCVWP1314c CCV	248.672	0.0	0.253	
CCB3 CCB	-0.728	0.0	0.008	
B1584-10 ME4EH7	1.130	0.0	0.010	
B1584-11 ME4EH8	-0.430	0.0	0.008	
B1584-12 ME4EH9	1.168	0.0	0.010	
B1584-13 ME4EJ0	2.957	0.0	0.011	
CRIWP1315c CRI	8.778	0.0	0.017	
CCVWP1314d CCV	260.763	0.0	0.265	
CCB4 CCB	-2.467	0.0	0.006	

CN Raw Data

Test results AquaKem 6.5 Pa

Print date

3-12-2010

CHEMTECH
284 Sheffield street,
Mountainside, NJ 07092
Review by : JG

12.03.2010 20:05

Test: CN EPA

ug/L

Sample Id	Result	Dil. 1 +	Response
N	37		
Mean	57.412		
SD	97.2158		
CV%	169.33		

CN Raw Data

AquaKem v. 6.5 AQ1
Results from time period:
Fri Mar 12 19:11:02 2010
Fri Mar 12 20:00:03 2010

Sample Id	Sam/Ctr/c/	Test short	Test type	Result	Result unit	Result date and time
0.0PPBCN S 0	A	CN EPA	P	-2.9469	µg/l	3/12/2010 19:11:02
5.0PPBCN S 5.0	A	CN EPA	P	4.8732	µg/l	3/12/2010 19:11:03
10PPBCN S 10.0	A	CN EPA	P	9.6611	µg/l	3/12/2010 19:11:04
100PPBCN S 100.0	A	CN EPA	P	101.8113	µg/l	3/12/2010 19:11:05
250PPBCN S 250.0	A	CN EPA	P	253.9112	µg/l	3/12/2010 19:11:06
500PPBCN S 500.0	A	CN EPA	P	497.6902	µg/l	3/12/2010 19:11:07
ICVPB48226 ICV	S	CN EPA	P	97.3411	µg/l	3/12/2010 19:29:18
ICVPB48227 ICV	S	CN EPA	P	96.6257	µg/l	3/12/2010 19:29:19
ICB1 ICB	S	CN EPA	P	-0.8825	µg/l	3/12/2010 19:29:20
CRIWP1315a CRI	S	CN EPA	P	9.7396	µg/l	3/12/2010 19:29:21
CCVWP1314a CCV	S	CN EPA	P	242.5629	µg/l	3/12/2010 19:29:22
CCB1 CCB	S	CN EPA	P	-1.7581	µg/l	3/12/2010 19:29:23
MID48226MIDRANGE	S	CN EPA	P	245.4148	µg/l	3/12/2010 19:29:24
MID48227MIDRANGE	S	CN EPA	P	247.2212	µg/l	3/12/2010 19:29:25
PBW48226 PBW	S	CN EPA	P	-0.8799	µg/l	3/12/2010 19:29:26
PBS48227 PBS	S	CN EPA	P	-1.2129	µg/l	3/12/2010 19:29:27
LCSW48226 LCSW	S	CN EPA	P	98.002	µg/l	3/12/2010 19:29:28
LCSS48227 LCSS	S	CN EPA	P	212.0301	µg/l	3/12/2010 19:32:00
B1560-18 MF3FY0	S	CN EPA	P	-1.778	µg/l	3/12/2010 19:35:22
B1560-19 MF3FY8	S	CN EPA	P	-1.9207	µg/l	3/12/2010 19:35:23
B1560-20 MF3FZ8	S	CN EPA	P	-1.7277	µg/l	3/12/2010 19:41:23
B1560-21 MF3G01	S	CN EPA	P	-0.8738	µg/l	3/12/2010 19:41:24
CCVWP1314b CCV	S	CN EPA	P	262.7006	µg/l	3/12/2010 19:41:25
CCB2 CCB	S	CN EPA	P	-1.8836	µg/l	3/12/2010 19:46:59
B1584-01 ME4EG5	S	CN EPA	P	0.1117	µg/l	3/12/2010 19:47:00
B1584-02 ME4EG6	S	CN EPA	P	-2.9764	µg/l	3/12/2010 19:47:01
B1584-03 ME4EG7	S	CN EPA	P	4.0959	µg/l	3/12/2010 19:47:02
B1584-05 ME4EH4	S	CN EPA	P	1.0263	µg/l	3/12/2010 19:47:04
B1584-06 ME4EH4D	S	CN EPA	P	1.6409	µg/l	3/12/2010 19:47:05
B1584-04 ME4EG8	S	CN EPA	P	-1.3116	µg/l	3/12/2010 19:49:12
B1584-07 ME4EH4S	S	CN EPA	P	97.2866	µg/l	3/12/2010 19:56:46
B1584-08 ME4EH5	S	CN EPA	P	0.1988	µg/l	3/12/2010 19:56:47
B1584-09 ME4EH6	S	CN EPA	P	-2.8471	µg/l	3/12/2010 19:56:48
CRIWP1315b CRI	S	CN EPA	P	8.4432	µg/l	3/12/2010 19:56:49
CCVWP1314c CCV	S	CN EPA	P	248.6719	µg/l	3/12/2010 19:56:50
CCB3 CCB	S	CN EPA	P	-0.7277	µg/l	3/12/2010 19:56:51
B1584-10 ME4EH7	S	CN EPA	P	1.1297	µg/l	3/12/2010 19:56:52
B1584-11 ME4EH8	S	CN EPA	P	-0.4301	µg/l	3/12/2010 19:56:53
B1584-12 ME4EH9	S	CN EPA	P	1.168	µg/l	3/12/2010 19:56:54
B1584-13 ME4EJ0	S	CN EPA	P	2.9574	µg/l	3/12/2010 19:56:55
CRIWP1315c CRI	S	CN EPA	P	8.7776	µg/l	3/12/2010 19:56:56
CCVWP1314d CCV	S	CN EPA	P	260.7633	µg/l	3/12/2010 20:00:02
CCB4 CCB	S	CN EPA	P	-2.4666	µg/l	3/12/2010 20:00:03

CN Sequence Log

Segment report AquaKem 6.5 Page:

CHEMTECH
284 Sheffield street,
Mountainside, NJ 07092
Review by : JA

3-12-2010

Date : 2010-03-12
Time : 19.56

Segment: 1

Position	Sample	Test	Result
1	0.0PPBCN		
2	5.0PPBCN		
3	10PPBCN		
4	100PPBCN		
5	250PPBCN		
6	500PPBCN		
7			
8			
9			
10			
11			
12			
13			
14			

CN Sequence Log

Segment report AquaKem 6.5 Page:

CHEMTECH
284 Sheffield street,
Mountainside, NJ 07092
Review by : JR

3-12-2010

Date : 2010-03-12
Time : 19.58

Segment: 2

Position	Sample	Test	Result
1	ICVPB48226 ICV	CN EPA	
2	ICVPB48227 ICV	CN EPA	
3	ICB1 ICB	CN EPA	
4	CRIWP1315a CRI	CN EPA	
5	CCVWP1314a CCV	CN EPA	
6	CCB1 CCB	CN EPA	
7	MID48226MIDRANGE	CN EPA	
8	MID48227MIDRANGE	CN EPA	
9	PBW48226 PBW	CN EPA	
10	PBS48227 PBS	CN EPA	
11	LCSW48226 LCSW	CN EPA	
12	LCSS48227 LCSS	CN EPA	
13	B1560-18 MF3FY0	CN EPA	
14	B1560-19 MF3FY8	CN EPA	

JR
3-12-10

CN Sequence Log

Segment report AquaKem 6.5 Page:

CHEMTECH
284 Sheffield street,
Mountainside, NJ 07092
Review by : JM

3-12-2010

Date : 2010-03-12
Time : 20.01

Segment: 3

Position	Sample	Test	Result
1	B1560-20 MF3FZ8	CN EPA	
2	B1560-21 MF3G01	CN EPA	
3	CCVWP1314b CCV	CN EPA	
4	CCB2 CCB	CN EPA	
5	B1584-01 ME4EG5	CN EPA	
6	B1584-02 ME4EG6	CN EPA	
7	B1584-03 ME4EG7	CN EPA	
8	B1584-04 ME4EG8	CN EPA	
9	B1584-05 ME4EH4	CN EPA	
10	B1584-06 ME4EH4D	CN EPA	
11	B1584-07 ME4EH4S	CN EPA	
12	B1584-08 ME4EH5	CN EPA	
13	B1584-09 ME4EH6	CN EPA	
14	CRIWP1315b CRI	CN EPA	

JM
3-12-10

CN Sequence Log

Segment report AquaKem 6.5 Page:

CHEMTECH
284 Sheffield street,
Mountainside, NJ 07092
Review by : JM

3-12-2010
Date : 2010-03-12
Time : 20.02

Segment: 4

Position	Sample	Test	Result
1	CCVWP1314c CCV	CN EPA	
2	CCB3 CCB	CN EPA	
3	B1584-10 ME4EH7	CN EPA	
4	B1584-11 ME4EH8	CN EPA	
5	B1584-12 ME4EH9	CN EPA	
6	B1584-13 ME4EJ0	CN EPA	
7	CRIWP1315c CRI	CN EPA	
8	CCVWP1314d CCV	CN EPA	
9	CCB4 CCB	CN EPA	
10			
11			
12			
13			
14			

JM 3-12-10

CHEMTECH 284 Sheffield Street Mountainside, NJ 07092

CN Instrument Log

INSTRUMENT MAINTENANCE	Supervisor Review	Parameter/ Date	Method	Project #/Batch Id
1	JA	3-12-10	FLM05.3	B1560 B1584
2	JA	3-11-10	FLM05.3	B1560
3	JA			

3-12-10

CHEMTECH 284 Sheffield Street Mountainside, NJ 07092

CN Instrument Log

KONELAB ANALYSIS LOGBOOK

	DATE	Analyst	START	END	STANDARD CONCENTRATION RESPONSE					
		Analyte	TIME	TIME	STD 1	STD 2	STD 3	STD 4	STD 5	STD 6
1	3-12 10	Jim	19:11	20:00	0	5	10	100	250	500
					0.006	0.013	0.018	0.108	0.258	0.497

REAGENTS USED	CHEMTECH LOT#	REAGENTS USED	CHEMTECH LOT#
Calibration standard ~~CRI STD 10 PPB~~	WP1307-WP1313	Pyridine	W026060
0.25 N NaOH (ICB,CCB)	W029555	Cyanide Buffer	W026967
CRI 10 ppb	WP1315	Chloramine T	WP1316

	~~DATE~~	~~Analyst~~	~~START~~	~~END~~	STANDARD CONCENTRATION RESPONSE					
		Analyte	TIME	TIME	STD 1	STD 2	STD 3	STD 4	STD 5	STD 6
2	3-11 10	Jim	16:10	16:56	0	5	10	100	250	500
					0.002	0.009	0.016	0.104	0.252	0.498

REAGENTS USED	CHEMTECH LOT#	REAGENTS USED	CHEMTECH LOT#
Calibration standard ~~CRI STD 10 PPB~~	WP1260-WP1266	Pyridine	W026060
0.25 N NaOH (ICB,CCB)	W029555	Cyanide Buffer	W026967
CRI 10 ppb	WP1268	Chloramine T	WP1269

	DATE	Analyst	START	END	STANDARD CONCENTRATION RESPONSE					
		Analyte	TIME	TIME	STD 1	STD 2	STD 3	STD 4	STD 5	STD 6
3										

REAGENTS USED	CHEMTECH LOT#	REAGENTS USED	CHEMTECH LOT#
Calibration standard CRI STD 10 PPB		Pyridine	
0.25 N NaOH (ICB,CCB)		Cyanide Buffer	
		Chloramine T	

JA 3-12-10

344

CHEMTECH

284, Sheffield Street, Mountainside NJ 07092 (908) 789 - 8900

Wet Chemistry STANDARD PREPARATION LOG

RecipeID	NAME	NO.	Prep Date	Expiration D	Prepared By
2	Intermediate Cyanide Standard Solution 50 ppm	WP1305	03/12/2010	03/19/2010	jmoore
FROM	5.000ml of CYANIDE STD 1000PPM 4OZ(W1109) + 95.000ml of Sodium hydroxide absorbing solution 0.25 N(WP1006) = Final Quantity: 100.000				

RecipeID	NAME	NO.	Prep Date	Expiration D	Prepared By
3	Standard Cyanide Working Solution 5 ppm	WP1306	03/12/2010	03/19/2010	jmoore
FROM	10.000ml of Intermediate Cyanide Standard Solution 50 ppm(WP1305) + 90.000ml of Sodium hydroxide absorbing solution 0.25 N(WP1006) = Final Quantity: 100.000				

RecipeID	NAME	NO.	Prep Date	Expiration D	Prepared By
4	Calibation standard 500 ppb	WP1307	03/12/2010	03/13/2010	jmoore
FROM	10.000ml of Standard Cyanide Working Solution 5 ppm(WP1306) + 90.000ml of Sodium hydroxide absorbing solution 0.25 N(WP1006) = Final Quantity: 100.000				

RecipeID	NAME	NO.	Prep Date	Expiration D	Prepared By
5	Calibration Standard 250 ppb	WP1308	03/12/2010	03/13/2010	jmoore
FROM	5.000ml of Standard Cyanide Working Solution 5 ppm(WP1306) + 95.000ml of Sodium hydroxide absorbing solution 0.25 N(WP1006) = Final Quantity: 100.000				

RecipeID	NAME	NO.	Prep Date	Expiration D	Prepared By
6	Calibration Standard 100 ppb	WP1309	03/12/2010	03/13/2010	jmoore
FROM	2.000ml of Standard Cyanide Working Solution 5 ppm(WP1306) + 98.000ml of Sodium hydroxide absorbing solution 0.25 N(WP1006) = Final Quantity: 100.000				

RecipeID	NAME	NO.	Prep Date	Expiration D	Prepared By
7	Calibration Standard 50 ppb	WP1310	03/12/2010	03/13/2010	jmoore
FROM	1.000ml of Standard Cyanide Working Solution 5 ppm(WP1306) + 99.000ml of Sodium hydroxide absorbing solution 0.25 N(WP1006) = Final Quantity: 100.000				

CHEMTECH

284; Sheffield Street, Mountainside NJ 07092 (908) 789 - 8900

Wet Chemistry STANDARD PREPARATION LOG

RecipeID	NAME	NO.	Prep Date	Expiration D	Prepared By
8	Calibration Standard 10 ppb	WP1311	03/12/2010	03/13/2010	jmoore
FROM	2.000ml of Calibation standard 500 ppb(WP1307) + 98.000ml of Sodium hydroxide absorbing solution 0.25 N(WP1006) = Final Quantity: 100.000				

RecipeID	NAME	NO.	Prep Date	Expiration D	Prepared By
9	Calibration Standard 5 ppb	WP1312	03/12/2010	03/13/2010	jmoore
FROM	1.000ml of Calibation standard 500 ppb(WP1307) + 99.000ml of Sodium hydroxide absorbing solution 0.25 N(WP1006) = Final Quantity: 100.000				

RecipeID	NAME	NO.	Prep Date	Expiration D	Prepared By
167	0 ppb CN calibration std	WP1313	03/12/2010	03/13/2010	jmoore
FROM	100.000ml of Sodium hydroxide absorbing solution 0.25 N(WP1006) = Final Quantity: 100.000				

RecipeID	NAME	NO.	Prep Date	Expiration D	Prepared By
271	CN CCV STD	WP1314	03/12/2010	03/13/2010	jmoore
FROM	5.000ml of Standard Cyanide Working Solution 5 ppm(WP1306) + 95.000ml of Sodium hydroxide absorbing solution 0.25 N(WP1006) = Final Quantity: 100.000				

RecipeID	NAME	NO.	Prep Date	Expiration D	Prepared By
272	CN CRI STD	WP1315	03/12/2010	03/13/2010	jmoore
FROM	2.000ml of Calibation standard 500 ppb(WP1307) + 98.000ml of Sodium hydroxide absorbing solution 0.25 N(WP1006) = Final Quantity: 100.000				

RecipeID	NAME	NO.	Prep Date	Expiration D	Prepared By
10	Chloramine T solution	WP1316	03/12/2010	03/19/2010	jmoore
FROM	1.000gram of CHLORAMINE-T BAKER 250GM(W1120) = Final Quantity: 100.000				

CHEMTECH

284, Sheffield Street, Mountainside NJ 07092 (908) 789 - 8900

Wet Chemistry STANDARD PREPARATION LOG

RecipeID	NAME	NO.	Prep Date	Expiration D	Prepared By
11	Sodium hydroxide absorbing solution 0.25 N	WP1005	02/23/2010	08/24/2010	jmoore

FROM 2 ~~10.000~~ kg of PC19510-5 / Sodium Hydroxide Pellets 2.5 Kg, Pk of 4(W1015) = Final Quantity: ~~1.000~~ 2 L

CHEMTECH

284, Sheffield Street, Mountainside NJ 07092 (908) 789 - 8900

Wet Chemistry STANDARD PREPARATION LOG

RecipeID	NAME	NO.	Prep Date	Expiration D	Prepared By
13	Magnesium Chloride solution 51% w/v	WP1004	02/23/2010	08/23/2010	jmoore
FROM	490.000L of DIW / DI Water(W1152) + 510.000L of J2444-7 / MAGNESIUM CHLORIDE, 6-HYD, CRYS, 12KG(W1153) = Final Quantity: 1.000				

CHEMTECH

284, Sheffield Street, Mountainside NJ 07092 (908) 789 - 8900

Wet Chemistry STANDARD PREPARATION LOG

RecipeID	NAME	NO.	Prep Date	Expiration D	Prepared By
14	Sulfuric Acid 50% v/v	WP1130	03/03/2010	09/03/2010	roberto
FROM	1000.000L of BA-9673-33 / Sulfuric Acid, Instra-Analyzed (cs/6c2.5L)(M1064) + 1000.000L of DIW / DI Water(W1152) = Final Quantity: 2.000				

General Chemistry

Standard Preparation Log

Name	NO.	Prep date	Expiration Date	SIGNATURE
Pyridine-Barbituric Soln	W026060	07-17-09	01-16-10	V Daftary

FROM 15g of Barbituric acid WC0560 + 15 mL of concentrated HCl MB 1729 + 75mL of pyridine WC0636
→ 250 mL w/ DI

NAME	NO.	Prep Date	Expiration Date	SIGNATURE
Cr^6 Int Std	W026061	07-17-09	07-17-09	V Daftary

FROM 5ppm - 10mL of Cr^6 stock std W025787
→ 100mL w/ DI

NAME	NO.	Prep Date	Expiration Date	SIGNATURE
Cr^6 Int Std	W026062	07-17-09	07-17-09	V Daftary

FROM 5ppm - 10mL of Cr^6 stock std W025794
→ 100 mL w/ DI

NAME	NO.	Prep Date	Expiration Date	SIGNATURE
Cr^6 Working Std	W026063	07-17-09	07-17-09	V Daftary

FROM VD 7-20-09
~~5ppm - 10mL of Cr^6 stock std W~~
A 1.0ppm - 20
B 0.5ppm - 10
C 0.3ppm - 6
D 0.1ppm - 2
E 0.05ppm - 1
F 0ppm - 0
} mL of Cr^6 int std W026061
→ 100 mL w/ DI

Standard Preparation Log

Name	NO.	Prep date	Expiration Date	SIGNATURE
CN Phosphat Buffer	W026967	10-13	4-12-10	JM

FROM

138 g of Mono Mono Phosphate WC0791 bring to 1000 mL W/DI

NAME	NO.	Prep Date	Expiration Date	SIGNATURE
COD washing stds	W026968	10-13-09	10-13-09	[illegible]

FROM

JM 11-13-09

NAME	NO.	Prep Date	Expiration Date	SIGNATURE
Phenol Stock Std	W026969	10-13	4-12-10	

Source 1

FROM

1 g of Phenol WC1265 bring to 1000 mL W/DI

NAME	NO.	Prep Date	Expiration Date	SIGNATURE
Phenol Stock Std	W026970	10-13	4-12-10	

Source 2

FROM

1 g of Phenol WC0800 bring to 1000 mL W/DI

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Wet Chemistry STANDARD PREPARATION LOG

RecipeID	NAME	NO.	Prep Date	Expiration D	Prepared By
294	Working Std for CN Spike (5 ppm)	WP1279	03/11/2010	04/30/2010	jmoore
FROM	5.000ml of RC2543-4 / CYANIDE STD 1000PPM 4OZ(W1109) + 995.000ml of WR11 / Working Std for CN Spike (5 ppm)(WP1005) = Final Quantity: 1000.000				

CHEMTECH
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INORGANICExtractables Standard Receipt Logbook

Supplier R1/10/02/08	Standard Catalog #	Lot #	Expiration Date	Date Opened	Initials	Chemtech Lot #
QATS LAB.	89-000 LCS-CN(0899)	NA	7-19-09	1-20-09	[illegible]	MM1614

Supplier R1/10/02/08	Standard Catalog #	Lot #	Expiration Date	Date Opened	Initials	Chemtech Lot #
QATS LAB.	89-000 LCS-CN(0899)	NA	1-17-10	7-18-09	[illegible]	MM1615

Supplier R1/10/02/08	Standard Catalog #	Lot #	Expiration Date	Date Opened	Initials	Chemtech Lot #
QATS LAB.	89-000 LCS-CN(0899)	NA	4-14-10	10-15-09	[illegible]	MM1616

Supplier R1/10/02/08	Standard Catalog #	Lot #	Expiration Date	Date Opened	Initials	Chemtech Lot #
QATS LAB.	89-000 LCS-CN(0899)	NA				MM1617

Supplier R1/10/21/08	Standard Catalog #	Lot #	Expiration Date	Date Opened	Initials	Chemtech Lot #
Inorganic Vent.	WW-LFS-1	B2-MEB236048	11/01/09	11/11/08	NP	MM1618

Supplier R1/10/21/08	Standard Catalog #	Lot #	Expiration Date	Date Opened	Initials	Chemtech Lot #
Inorganic Vent.	WW-LFS-2	B2-MEB236045	11/01/09	11/11/08	NP	MM1619

Supplier R1/10/21/08	Standard Catalog #	Lot #	Expiration Date	Date Opened	Initials	Chemtech Lot #
Inorganic Vent.	WW-LFS-1	B2-MEB236048	11/01/09	12/02/08	NP	MM1620

Supervisor Review: [illegible] Date: 1-20-09

INORGANICExtractables Standard Receipt Logbook

Supplier	Standard Catalog #	Lot #	Expiration Date	Date Opened	Initials	Chemtech Lot #
Inorg. Vent	WW-LFS-2 10/21/08	B2-MEB 236045	1st Nov. 2009	10/21/08	MP	MM1607

Supplier R110/02/08	Standard Catalog #	Lot #	Expiration Date	Date Opened	Initials	Chemtech Lot #
QATS LAB.	89-000 ICV-6(0400) CN	NA	4-28-09	10-29-08	SJ	MM1608

Supplier R110/02/08	Standard Catalog #	Lot #	Expiration Date	Date Opened	Initials	Chemtech Lot #
QATS LAB.	89-000 ICV-6(0400) CN	NA	7-19-09	1-20-09	SJ	MM1609

Supplier R110/02/08	Standard Catalog #	Lot #	Expiration Date	Date Opened	Initials	Chemtech Lot #
QATS LAB.	89-000 ICV-6(0400) CN	NA	1-17-10	7-18-09	JM	MM1610

Supplier R110/02/08	Standard Catalog #	Lot #	Expiration Date	Date Opened	Initials	Chemtech Lot #
QATS LAB.	89-000 ICV-6(0400) CN	NA	4-14-10	10-15-09	JM	MM1611

Supplier R110/02/08	Standard Catalog #	Lot #	Expiration Date	Date Opened	Initials	Chemtech Lot #
QATS LAB.	89-000 ICV-6(0400) CN	NA				MM1612

Supplier R110/02/08	Standard Catalog #	Lot #	Expiration Date	Date Opened	Initials	Chemtech Lot #
QATS LAB.	89-000 ~~ICV-6(0400)~~ LCS-CN(0879)	NA	4-28-09	10-29-08	SJ	MM1613

10/02/08

Supervisor Review: SJ Date: 1-20-09

CHEMTECH

REAGENT/CHEMICAL
STOCK LOG BOOK

SUPPLIER	REAGENT/ CHEMICAL	LOT#	DATE OPENED	DATE EXP.	INITIALS	STOCK#
FROM:	1 LHX.		Rec.			
Anachemia	Alkaline-Iodide Na-Azide 50L	200-501	5/8/02 SD-5/16/02	N/A	MP	WC0627
SUPPLIER	REAGENT/ CHEMICAL	LOT#	DATE OPENED	DATE EXP.	INITIALS	STOCK#
FROM:	1 LHX 2		Rec.			
Fisher	K. Bi-Iodate 0.025M C N/40	0135-46-24	5/10/02 SD-5/16/02	3/30/03	MP	WC0628
SUPPLIER	REAGENT/ CHEMICAL	LOT#	DATE OPENED	DATE EXP.	INITIALS	STOCK#
FROM:						WC0629
EPA	LCS-CN (C0996). EPA Tv=912 PPB.	LCS-CN (C0996).	5/7/02	—	Sejal	~~WC0629~~ ~~WC0~~ Sejal 5/7/02
SUPPLIER	REAGENT/ CHEMICAL	LOT#	DATE OPENED	DATE EXP.	INITIALS	STOCK#
FROM:						
Spectrum	Potassium Perchlorate	LE0222		—	JAA	WC0630
SUPPLIER	REAGENT/ CHEMICAL	LOT#	DATE OPENED	DATE EXP.	INITIALS	STOCK#
FROM:						
J. T Baker	Potassium Perchlorate Crystal	N31589	8/30/01		JAA	WC0631
SUPPLIER	REAGENT/ CHEMICAL	LOT#	DATE OPENED	DATE EXP.	INITIALS	STOCK#
FROM:						
Anachemia	Sodium hypochlorite	990701	5/30/02	11/29/02	S	WC0632 ~~WC0632~~ X,10X4 Sejal 5/30/02
SUPPLIER	REAGENT/ CHEMICAL	LOT#	DATE OPENED	DATE EXP.	INITIALS	STOCK#
FROM:						
J. T Baker	Pyridine	15470	5/30/02	—	S	WC0633 X,2X2
SUPPLIER	REAGENT/ CHEMICAL	LOT#	DATE OPENED	DATE EXP.	INITIALS	STOCK#
FROM:						
Anachemia	Ammonium chloride	890107	5/30/02	—	S	WC0634

Supervisor Sign. ✓

CHEMTECH

REAGENT/CHEMICAL
STOCK LOG BOOK

SUPPLIER	REAGENT/ CHEMICAL	LOT#	DATE OPENED	DATE EXP.	INITIALS	STOCK#
FROM:						
Orion	PH 7.00 Buffer	9 10 07		7/05	hjp	WC0801 x1, x2, x3, x4, x5, x6
SUPPLIER	REAGENT/ CHEMICAL	LOT#	DATE OPENED	DATE EXP.	INITIALS	STOCK#
FROM:			hjp 10/1/03			
BECKMAN	PH 7.00 Buffer	M 302086	~~2/28/06~~	2/28/06	hjp	WC0802 x1, x2, x3, x4, x5, x6
SUPPLIER	REAGENT/ CHEMICAL	LOT#	DATE OPENED	DATE EXP.	INITIALS	STOCK#
FROM:						
Environmental Express	Cod VIAIS Low Level (0-150)	—	10/9/03		hjp	WC0803 x1, x2, x3
SUPPLIER	REAGENT/ CHEMICAL	LOT#	DATE OPENED	DATE EXP.	INITIALS	STOCK#
FROM:						
Environmental Express	Cod VIAIS High Level (0-1500)	—	10/9/03	hjp		WC0804 x1, x2, x3
SUPPLIER	REAGENT/ CHEMICAL	LOT#	DATE OPENED	DATE EXP.	INITIALS	STOCK#
FROM:						
J.T. Baker	Acetic Acid Glacial 500 ML x10	F27-827	Rod 10/14/03	N/A	hp	WC0805
SUPPLIER	REAGENT/ CHEMICAL	LOT#	DATE OPENED	DATE EXP.	INITIALS	STOCK#
FROM:						
J.T. Baker	Barbituric Acid 100g	Y32603	10/27/03		SB	WC0806 x1 x2 x3 x4 x5 x6
SUPPLIER	REAGENT/ CHEMICAL	LOT#	DATE OPENED	DATE EXP.	INITIALS	STOCK#
FROM:						
J.T Baker	Potassium Sodium Tartrate 4-Hydrate 500g Crystal	X24344	10/27/03		SB	WC0807 X1 X2
SUPPLIER	REAGENT/ CHEMICAL	LOT#	DATE OPENED	DATE EXP.	INITIALS	STOCK#
FROM:						
J.T Baker	Ferric Nitrate 9-Hydrate Crystal	X43638	10/27/03		SB	WC0808 X1 X2

Supervisor Sign.:___ Page # 000098

CHEMTECH

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Wet Chemistry CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19510-5 / Sodium Hydroxide Pellets 2.5 Kg, Pk of 4	ab56432	09/14/2014	10/06/2009 /	09/14/2009 / divya	W1015

Supervisor Review : JR

Date : 3-11-10

CHEMTECH

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Metals CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9673-33 / Sulfuric Acid, Instra-Analyzed (cs/6c2.5L)	G35026	10/28/2014	11/02/2009 /	10/28/2009 / alpa	M1064

Supervisor Review : _____ Date : 3-11-10

CHEMTECH

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Wet Chemistry CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Lab certified	02/23/2015	02/23/2010 /	02/23/2010 / divya	W1152

Supervisor Review : _____ Date : 3-11-10

CHEMTECH

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Wet Chemistry CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	RC2543-4 / CYANIDE STD 1000PPM 4OZ	2910259	04/30/2010	03/03/2010 /	11/15/2009 / jmoore	W1109

Supervisor Review : JR Date : 3-11-10

CHEMTECH

284, Sheffield Street, Mountainside NJ 07092 (908) 789 - 8900

Wet Chemistry CHEMICAL RECEIPT LOG BOOK

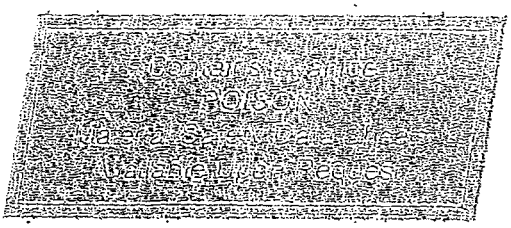
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	J2444-7 / MAGNESIUM CHLORIDE, 6-HYD, CRYS, 12KG	sr0273	09/29/2013	03/03/2010 /	02/03/2010 / jmoore	W1153

Supervisor Review : JM Date : 3-11-10

instructions.

CAUTION: Read instructions carefully before opening bottles and proceeding with th analysis.

Contains Cyanide
POISON
Material Safety Data Sheet
Available Upon Request



(A) *SAMPLE DESCRIPTION*

Enclosed is a solid reference material composed of sand which contains Iron (III) Cyanid

(B) *BREAKAGE OR MISSING ITEMS*

Check the contents of the shipment carefully for any broken, leaking, or missing items. Check that the seal is intact on each bottle. Refer to the enclosed chain-of-custody recor Report any problems to Mr. Michael Zimmerman, Shaw Environmental, Inc. at (702) 895-8730. Return the chain-of-custody record with appropriate annotations and signatures to the address provided below.

QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
Shaw Environmental, Inc.
2700 Chandler Ave - Bldg C
Las Vegas, NV 89120

This solid laboratory control sample was prepared by the Quality Assurance Technical Support (QATS) Laboratory operated by Shaw Environmental Inc. under contract to the EPA. This material requires acid distillation to release cyanide. Use a five gram aliquot for macro-distillation or a one gram aliquot for midi-distillation. The "true value" concentration and control limits were derived from the results of an EPA multi-laboratory analysis of the solid material by Contract Laboratory Program procedures. The "True Value" concentration and control limits are listed in the table below.

TRUE VALUE CONCENTRATION AND CONTROL LIMITS FOR CYANIDE IN THE SOLID LABORATORY CONTROL SAMPLE CYANIDE LCS-CN (0899)		
Analyte	True Value (mg/Kg)	Control Limits (mg/Kg)
CN	9.6	7.4 - 11.8

Q:\Forms\PEINSTR\LCS-CN.doc QATS Form 20-007F060R04, 04-20-2007

Element	Concentration (ug/L)
Cd	98.7
Pb	99.8
Ag	101.9
Tl	98.0

Element	Concentration (ug/L)
Hg	4.1

Element	Concentration (ug/L)
CN-	99

RICCA CHEMICAL COMPANY

Arlington, TX 76012
Pocomoke City, MD 21851
Batesville, IN 47006
http://www.riccachemical.com
1-888-GO-RICCA
customerservice@riccachemical.com

Certificate of Analysis

Cyanide Standard, 1 mL = 1 mg CN, 1000 ppm CN

Lot Number: 2910259 Product Number: 2543 Expiration Date: APR 2010 Manufacture Date: 10/9/2009

The certified value reported is the prepared value based upon the method of preparation of the material. The uncertainty in the prepared value is based upon the volumetric method of preparation.

Contains:

Name	CAS#	Grade
Potassium Cyanide, KCN	151-50-8	ACS
Sodium Hydroxide, NaOH	1310-73-2	ACS
Water, Deionized, H2O	7732-18-5	ACS, ASTM D 1193 (Type I), EP, USP

Test Name	Assay Method	Specification	Result
Appearance	Clarity, Color, Odor	Clear, colorless, cyanide odor	Passed Test
Certified Concentration	Based on accurate volumetric preparation	1000 ± 5 ppm CN-	1000 ppm CN-

Specification	Reference	Method Number
Stock Standard Cyanide Solution	APHA	4500-CN- F
Stock Cyanide Solution	APHA	4500-CN- E
Stock Cyanide Solution	APHA	4500-CN- K
Stock Cyanide Solution	APHA	4500-CN- H
Cyanide Reference Solution (1000 mg/L)	EPA (SW-846)	7.3.3.2
Cyanide Calibration Stock Solution (1,000 mg/L CN-)	EPA (SW-846)	9213
Stock Cyanide Solution	EPA	335.3
Stock Cyanide Solution	EPA	335.2
Cyanide Solution Stock	ASTM	D 4282
Simple Cyanide Solution, Stock (1.0 g/L CN)	ASTM	D 4374

Use 0.16% (w/v) (0.04 N) Sodium Hydroxide or 0.225 % (w/v) (0.04 N) Potassium Hydroxide to make dilutions of this standard. Restandardize weekly if extreme accuracy is required.

Shelf Life (unopened container):

Part Number	Shelf Life
2543-4	6 months
2543-32	6 months
2543-16	6 months

Recommended Storage: 2°C - 8°C (36°F - 46°F)

LaNelle Ohlhausen
Quality Assurance

This Certificate of Analysis is designed to comply with ISO Guide 31 "Reference Materials – Contents of Certificates and Labels."
To determine manufacturing site using lot number, visit www.riccachemical.com/AboutUs/lot.pdf.

WC1366
W 1109

Version: 1

ILMO5.4

CHEMTECH

Prep code HW1

Water Sample Preparation Sheet

B1560

PrepBatch ID :	PB48189	Batch#	PB48189
SDG No :		ICP Digest Date:	03/10/10
Matrix :	Water	Sample Received By :	Ø mi
Method :	MILMO5.4 - Trace Metals-03	Dig Technician Signature:	Nawaka Patel
Initial Volume :	50 ML	Supervisor Signature:	Ø. m
Final Volume :	50 ML	Prep Code:	~~CW1~~ HW1
Hot Plate Temp :	1. 95°C 2. 3.		03/10/10 AP

Standared Name	MLS USED	STD REF. # FROM LOG
Spike Sol 6	0.50 ML	MI 16939
Spike Sol ~~6~~ 4	5.0 ML	MM1850
03/10/10 NP		

Chemical Used	Lot Number
1:1 HNO3	MI17271
1:1 HCL	MI17274
	03/10/10 NP

Date / Time	Received By	Relinquished By	Location
03/10/10	Ø [signature]	Nawaka Patel	Zep. lab
	Analysis Group	Digestion Group	
	DR, JS	AP, KR, NP	

CHEMTECH **Water Sample Preparation Sheet** **PrepBatch ID : PB48189**

Lab Sample ID	Customer Sample Number	Color Before	Color After	Clarity Before	Clarity After	PH	Comments
B1560-01	MF3FX7	C	C	CL	CL	<2	
B1560-02	MF3FY1	C	C	CL	CL	<2	
B1560-03	MF3FY2	C	C	CL	CL	<2	
B1560-04	MF3FY3	C	C	CL	CL	<2	
B1560-05	MF3FY3D	C	C	CL	CL	<2	03/10/10
B1560-06	MF3FY3S	C	C	CL	CL	<2	Spk: Sol. 6
B1560-07	MF3FY4	C	C	CL	CL	<2	
B1560-08	MF3FZ0	C	C	CL	CL	<2	
B1560-09	MF3FZ1	C	C	CL	CL	<2	
PB48189BL	~~PB48189BL~~ PBW	C	C	CL	CL	<2	03/10/10
PB48189BS	~~PB48189BS~~ LCSW	C	C	CL	CL	<2	Spk: Sol. 4

03/10/10

* BL=Blank BS=Blank Spike TB=TCLP Blank
* COLOR: R=Red BU=Blue Y=Yellow GR=Green O=Orange V=Violet W=White C=Colorless BR=Brown GY=Grey BL=Black
* CLARITY: CL=Clear CD=Cloudy O=Opaque

ICMOS-4

Prepcode HW1

CHEMTECH

Water Sample Preparation Sheet

B1560

PrepBatch ID :	PB48189	Batch#	PB48189
SDG No :		ICP Digest Date:	03/10/10
Matrix :	Water	Sample Received By :	[signature]
Method :	MICMOS-4 - Trace Metals-03	Dig Technician Signature:	Nancha Patel
Initial Volume :	50 ML	Supervisor Signature:	[signature]
Final Volume :	50 ML	Prep Code:	~~CW1~~ HW1
Hot Plate Temp :	1. 95C 2. 3.		03/10/10 [initials]

Standared Name	MLS USED	STD REF. # FROM LOG
Spike Sol 6	0.50ML	MI16939
Spike Sol 4	5.0ML	MM1850
	03/10/10 [initials]	

Chemical Used	Lot Number
1:1 HNO3	MI17271
1:1 HCL	MI17274
	03/10/10 [initials]

Date / Time	Received By	Relinquished By	Location
03/10/10	[signature]	Nancha Patel	[illegible]
	Analysis Group	Digestion Group	
	DR, JS	AP, KR, NP	

CHEMTECH **Water Sample Preparation Sheet** **PrepBatch ID : PB48189**

Lab Sample ID	Customer Sample Number	Color Before	Color After	Clarity Before	Clarity After	PH	Comments
B1560-01	MF3FX7	Colorless	Colorless	Clear	Clear	<2	
B1560-02	MF3FY1	Colorless	Colorless	Clear	Clear	<2	
B1560-03	MF3FY2	Colorless	Colorless	Clear	Clear	<2	
B1560-04	MF3FY3	Colorless	Colorless	Clear	Clear	<2	
B1560-05	MF3FY3D	Colorless	Colorless	Clear	Clear	<2	03/10/10
B1560-06	MF3FY3S	Colorless	Colorless	Clear	Clear	<2	spk sol. 6
B1560-07	MF3FY4	Colorless	Colorless	Clear	Clear	<2	
B1560-08	MF3FZ0	Colorless	Colorless	Clear	Clear	<2	
B1560-09	MF3FZ1	Colorless	Colorless	Clear	Clear	<2	
PB48189BL	~~PB48189BL~~ PBW	Colorless	Colorless	Clear	Clear	<2	03/10/10
PB48189BS	~~PB48189BS~~ LCSW	Colorless	Colorless	Clear	Clear	<2	spk sol. 6

03/10/10

* BL=Blank BS=Blank Spike TB=TCLP Blank
* COLOR: R=Red BU=Blue Y=Yellow GR=Green O=Orange V=Violet W=White C=Colorless BR=Brown GY=Grey BL=Black
* CLARITY: CL=Clear CD=Cloudy O=Opaque

ICMOS.4

CHEMTECH

Prepcode HW1

Water Sample Preparation Sheet

B1560

PrepBatch ID :	**PB48205**	**Batch#**	**PB48205**
SDG No :		**ICP Digest Date:**	03/11/11
Matrix :	Water	**Sample Received By :**	D. Mi
Method :	MICMOS.4 – Trace Metals-03	**Dig Technician Signature:**	Nakendra Patel.
Initial Volume :	50 ML	**Supervisor Signature:**	D. M
Final Volume :	50 ML	**Prep Code:**	~~CW1~~ HW1 03/11/11 NP
Hot Plate Temp :	1. 95°C 2. 3.		

Standared Name	MLS USED	STD REF. # FROM LOG
Spike Sol 4	50 ML	MM1850
	03/11/11 NP	

Chemical Used	Lot Number
1:1 HNO3	MI17271
1:1 HCL	MI17275
	03/11/11 NP

Date / Time	Received By	Relinquished By	Location
03/11/11 3.00	D. Mi	Nakendra Patel	Tep-lab
	Analysis Group	**Digestion Group**	
	DR JS	AP, KR, NP	

CHEMTECH Water Sample Preparation Sheet PrepBatch ID : **PB48205**

Lab Sample ID	Customer Sample Number	Color Before	Color After	Clarity Before	Clarity After	PH	Comments
B1560-10	MF3FX8	C	C	CL	CL	<2	
B1560-11	MF3FX9	C	C	CL	CL	<2	03/11/11 NP
B1560-12	MF3FY6	BR	~~X~~ Y	CD	CL	>2	PH After digestion <2
B1560-13	MF3FY7	C	C	CL	CL	<2	
B1560-14	MF3FZ2	C	C	CL	CL	<2	
B1560-15	MF3FZ3	C	C	CL	CL	<2	
B1560-16	MF3FZ5	C	C	CL	CL	<2	
B1560-17	MF3FZ6	C	C	CL	CL	<2	
PB48205BL	~~PB48205BL~~ PBW	C	C	CL	CL	<2	03/11/11 NP
PB48205BS	~~PB48205BS~~ LCSW	C	C	CL	CL	<2	Spk Sol Y

03/11/11 NP

03/11/11 NP

* BL=Blank BS=Blank Spike TB=TCLP Blank
* COLOR: R=Red BU=Blue Y=Yellow GR=Green O=Orange V=Violet W=White C=Colorless BR=Brown GY=Grey BL=Black
* CLARITY: CL=Clear CD=Cloudy O=Opaque

ILM05.4

Prepcode HW1

CHEMTECH Water Sample Preparation Sheet

B1560

PrepBatch ID :	PB48205	Batch#	PB48205
SDG No :		ICP Digest Date:	03/11/11
Matrix :	Water	Sample Received By :	D.M.
Method :	MILM05.4 - Trace Metals-03	Dig Technician Signature:	Nawdhu Patel
Initial Volume :	50 ML	Supervisor Signature:	D.M
Final Volume :	50 ML	Prep Code:	~~CW1~~ HW1
Hot Plate Temp :	1 95°C 2. 3.		03/11/11 NP

Standared Name	MLS USED	STD REF. # FROM LOG
Spike Sol 4	5.0ML	MM1850
	03/11/11 NP	

Chemical Used	Lot Number
1:1 HNO3	MI17271
1:1 HCL	MI17275
	03/11/11 NP

Date / Time	Received By	Relinquished By	Location
03/11/11 3:00	D.M	Nawdhu Patel	ICP-Lab
	Analysis Group	Digestion Group	
	DR, JS	AP, KR, NP	

CHEMTECH **Water Sample Preparation Sheet** **PrepBatch ID : PB48205**

Lab Sample ID	Customer Sample Number	Color Before	Color After	Clarity Before	Clarity After	PH	Comments
B1560-10	MF3FX8	Colorless	Colorless	Clear	Clear	<2	
B1560-11	MF3FX9	Colorless	Colorless	Clear	Clear	<2	
B1560-12	MF3FY6	Brown	Yellow	Cloudy	Clear	>2	pH after digestion <2
B1560-13	MF3FY7	Colorless	Colorless	Clear	Clear	<2	
B1560-14	MF3FZ2	Colorless	Colorless	Clear	Clear	<2	
B1560-15	MF3FZ3	Colorless	Colorless	Clear	Clear	<2	
B1560-16	MF3FZ5	Colorless	Colorless	Clear	Clear	<2	
B1560-17	MF3FZ6	Colorless	Colorless	Clear	Clear	<2	
PB48205BL	~~PB48205BL~~ PBW	Colorless	Colorless	Clear	Clear	<2	03/11/11
PB48205BS	~~PB48205BS~~ LCSW	Colorless	Colorless	Clear	Clear	<2	Spk. Sol. 4

03/11/11

* BL=Blank BS=Blank Spike TB=TCLP Blank
* COLOR: R=Red BU=Blue Y=Yellow GR=Green O=Orange V=Violet W=White C=Colorless BR=Brown GY=Grey BL=Black
* CLARITY: CL=Clear CD=Cloudy O=Opaque

ICMOS-4

CHEMTECH

Prep code HW1

Water Sample Preparation Sheet

B1560

PrepBatch ID :	PB48236	Batch#	PB48236
SDG No :		ICP Digest Date:	03/15/10
Matrix :	Water	Sample Received By :	D. [illegible]
Method :	MIL-MOS-4 - Trace Metals-03	Dig Technician Signature:	Nancy Patel
Initial Volume :	50 ML	Supervisor Signature:	D. [illegible]
Final Volume :	50 ML	Prep Code:	~~CW1~~ HW1
Hot Plate Temp :	(1) 95°C 2. 3.		03/15/10 [illegible]

Standared Name	MLS USED	STD REF. # FROM LOG
Spike Sol 4	5.0 ML	MM1850
	03/15/10 [illegible]	

Chemical Used	Lot Number
1:1 HNO3	MI17271
1:1 HCL	MI17275
	03/15/10 [illegible]

Date / Time	Received By	Relinquished By	Location
03/15/10 11:30	D. [illegible]	Nancy Patel	ICP Lab
	Analysis Group	Digestion Group	
	(DR) JS	AP, KR, (NP)	

CHEMTECH **Water Sample Preparation Sheet** **PrepBatch ID : PB48236**

Lab Sample ID	Customer Sample Number	Color Before	Color After	Clarity Before	Clarity After	PH	Comments
B1560-18	MF3FY0	C	C	CL	CL	<2	
B1560-19	MF3FY8	C	C	CL	CL	<2	
B1560-20	MF3FZ8	C	C	CL	CL	<2	
B1560-21	MF3G01	C	C	CL	CL	<2	
PB48236BL	~~PB48236BL~~ MBW	C	C	CL	CL	<2	03/15/10 AM
PB48236BS	~~PB48236BS~~ LCSW	C	C	CL	CL	<2	spk sol. 4

03/15/10 AM

* BL=Blank BS=Blank Spike TB=TCLP Blank
* COLOR: R=Red BU=Blue Y=Yellow GR=Green O=Orange V=Violet W=White C=Colorless BR=Brown GY=Grey BL=Black
* CLARITY: CL=Clear CD=Cloudy O=Opaque

ICMOS-4

CHEMTECH

Prepcode HW1

Water Sample Preparation Sheet

B1560

PrepBatch ID :	PB48236	Batch#	PB48236
SDG No :		ICP Digest Date:	03/15/10
Matrix :	Water —	Sample Received By :	D.M
Method :	MICMOS-4 - Trace Metals-03	Dig Technician Signature:	[signature]
Initial Volume :	50 ML	Supervisor Signature:	D.M
Final Volume :	50 ML	Prep Code:	~~CW1~~ HW1
Hot Plate Temp :	1. 95°C 2. 3.		03/15/10 [initials]

Standared Name	MLS USED	STD REF. # FROM LOG
Spike Sol 4	5.0ML	MM1850
	03/15/10 [initials]	

Chemical Used	Lot Number
1:1 HNO3	MI17271
1:1 HCL	MI17275
	03/15/10 [initials]

Date / Time	Received By	Relinquished By	Location
03/15/10 11:30	D.M	[signature]	IOP Lab
	Analysis Group	Digestion Group	
	DR, JS	AP, KR, NP	

CHEMTECH **Water Sample Preparation Sheet** **PrepBatch ID :** **PB48236**

Lab Sample ID	Customer Sample Number	Color Before	Color After	Clarity Before	Clarity After	PH	Comments
B1560-18	MF3FY0	Colorless	Colorless	Clear	Clear	<2	
B1560-19	MF3FY8	Colorless	Colorless	Clear	Clear	<2	
B1560-20	MF3FZ8	Colorless	Colorless	Clear	Clear	<2	
B1560-21	MF3G01	Colorless	Colorless	Clear	Clear	<2	
PB48236BL	~~PB48236BL~~ PBW	Colorless	Colorless	Clear	Clear	<2	03/15/10
PB48236BS	~~PB48236BS~~ LCSW	Colorless	Colorless	Clear	Clear	<2	S/SK. Sol. 4

03/15/10

* BL=Blank BS=Blank Spike TB=TCLP Blank
* COLOR: R=Red BU=Blue Y=Yellow GR=Green O=Orange V=Violet W=White C=Colorless BR=Brown GY=Grey BL=Black
* CLARITY: CL=Clear CD=Cloudy O=Opaque

0021

CHEMTECH **MERCURY PREPARATION WORKSHEET**

SOP: M ILM05.3 Revision: MLM5.4HORW-mercury in water -03

Bath Temprature: 95°C

B1560

Block Temprature: —

Balance Check: (0.2G): —

Acceptance Range 0. 199-0.201 gram

Date: 3/15/2010 12:00:00 AM

Final Volume: 100 mL

Batch #: PB48233

Digestion Time: In: 8:00 Out: 10:00

Supervisor Signature: D. Ku

Dig Technician Signature: [illegible]

Sample Received By: A. J. Patel

STANDARD NAME	MLS USED	STD REF. # FROM LOG
ICV	100mL	S20263
CCV	100mL	S20265
CRA	100mL	S20262
Blank Spike, S	0.40mL	S20260

P.M. 03/15/10

P.M. 03/15/10

CHEMICAL USED	MLS USED
HNO3/H2SO4 1:2	MI17342
KMN04	MI17339
K2S2O8	MI17340
Hydroxylamine HCL	MI17341

P.M. 03/15/10

LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	~~Wt(g)~~ Vol(ml) P.M. 03/15/10	COMMENTS
BLK 0.0 ppb	S0	water	100 mL	S20262
Std1 0.2 ppb	S0.2			
Std2 2.5 ppb	S2.5			
Std3 5.0 ppb	S5.0			
Std4 7.5 ppb	S7.5			
Std5 10.0 ppb	S10.0			
ICV	ICV			S20263
ICB	ICB			S20262
CCV	CCV			S20265
CCB	CCB			S20262
CRI	~~CRA~~ / CRI P.M. 03/15/10			S20262
~~CHK STD~~	~~CHK STD~~			

Date/Time	Received By	Relinquished By	Location
	A. J. Patel	[illegible]	Mercury lab
03/15/2010	**Analysis Group**	**Digestion Group**	
	A. J. Patel	AP, KR, NP PM	

CHEMTECH

MERCURY PREPARATION WORKSHEET

PB48233

P.M. 03/15/10

LAB SAMPLE ID	CLIENT SAMPLE ID	TEST	MATRIX	~~Wt(g)~~/Vol(ml)	PH	COMMENTS
B1560-01	MF3FX7	Mercury	Water	100	<2	
B1560-02	MF3FY1	Mercury	Water	100	<2	
B1560-03	MF3FY2	Mercury	Water	100	<2	
B1560-04	MF3FY3	Mercury	Water	100	<2	
B1560-05	MF3FY3D	Mercury	Water	100	<2	
B1560-06	MF3FY3S	Mercury	Water	100	<2	S20260
B1560-07	MF3FY4	Mercury	Water	100	<2	
B1560-08	MF3FZ0	Mercury	Water	100	<2	
B1560-09	MF3FZ1	Mercury	Water	100	<2	
B1560-10	MF3FX8	Mercury	Water	100	<2	
B1560-11	MF3FX9	Mercury	Water	100	<2	
B1560-12	MF3FY6	Mercury	Water	100	<2	
B1560-13	MF3FY7	Mercury	Water	100	<2	
B1560-14	MF3FZ2	Mercury	Water	100	<2	
B1560-15	MF3FZ3	Mercury	Water	100	<2	
B1560-16	MF3FZ5	Mercury	Water	100	<2	
B1560-17	MF3FZ6	Mercury	Water	100	<2	
B1560-18	MF3FY0	Mercury	Water	100	<2	
B1560-19	MF3FY8	Mercury	Water	100	<2	
B1560-20	MF3FZ8	Mercury	Water	100	<2	
B1560-21	MF3G01	Mercury	Water	100	<2	
PB48233BL	PBW	Mercury	water	100	<2	

P.M. 03/15/10

* BL=Blank * BS=Blank Spike * TB=TCLP Blank

CHEMTECH

MERCURY PREPARATION WORKSHEET

p.m. 03/15/10

PB48233

LAB SAMPLE ID	CLIENT SAMPLE ID	TEST	MATRIX	~~Wt(g)~~/Vol(ml)	PH	COMMENTS
B1560-01	MF3FX7	Mercury	Water	100mL	<2	
B1560-02	MF3FY1	Mercury	Water		<2	
B1560-03	MF3FY2	Mercury	Water		<2	
B1560-04	MF3FY3	Mercury	Water		<2	
B1560-05	MF3FY3D	Mercury	Water		<2	
B1560-06	MF3FY3S	Mercury	Water		<2	S20260
B1560-07	MF3FY4	Mercury	Water		<2	
B1560-08	MF3FZ0	Mercury	Water		<2	
B1560-09	MF3FZ1	Mercury	Water		<2	
B1560-10	MF3FX8	Mercury	Water		<2	
B1560-11	MF3FX9	Mercury	Water		<2	
B1560-12	MF3FY6	Mercury	Water		<2	
B1560-13	MF3FY7	Mercury	Water		<2	
B1560-14	MF3FZ2	Mercury	Water		<2	
B1560-15	MF3FZ3	Mercury	Water		<2	
B1560-16	MF3FZ5	Mercury	Water		<2	
B1560-17	MF3FZ6	Mercury	Water		<2	
B1560-18	MF3FY0	Mercury	Water		<2	
B1560-19	MF3FY8	Mercury	Water		<2	
B1560-20	MF3FZ8	Mercury	Water		<2	
B1560-21	MF3G01	Mercury	Water		<2	
PB48233BL	PBW	Mercury	water		<2	

p.m. 03/15/10

* BL=Blank * BS=Blank Spike * TB=TCLP Blank

CHEMTECH Cynide Distillation Log Prep Code ID # DW2

SOP : M 1LM05.3	Batch# PB48226
TEMP Set1: 124 Set2: 124	Distillation Date: 3 / 12 / 10
	Time In: 1:00
Balance Check(g):	Time: Out 3:00
Wt1: 0.10 Wt2: 10.00 Wt3:	Reviewed By: J M 3-12-10
Final Vol: 50 mL	Dig Technician Signature: RB

Standared Name	MLS USED	STD REF. # FROM LOG
ICV	0.5ML	MM1612
Spike Sol 1	1.0ML	W027703
LCSW1	0.5ML	MM1612
PBW/PBS	50ML	DIW031210

Chemical Used	Lot Number
0.25N NaOH	W029555
50% v/v H2SO4	WP1130
51% w/v MgCL2	WP1004

LAB SAMPLE ID	CLIENT SAMPLE ID	Wt(g)/Vol(ml)	COMMENTS
ICV PB48226	ICV		
Midrange PB48226	Midrange	25 ML OF W027703	50 ML W/ DI H2O
HIGHSTD PB48226	HIGHSTD	NA	
LOWSTD PB48226	LOWSTD	NA	

Date / Time	Received By	Relinquished By	Location
3/12/10 3:00	James R Moore	RB	WC REF #2
	Analysis Group	Digestion Group	

COMMENTS

CHEMTECH Cynide Distillation Log

PrepBatch ID : PB48226

Lab Sample ID	Client Sample ID	Matrix	~~Weight/~~ Volume mL	PH	Sulfide	Oxidizing	Comments
B1560-18	MF3FY0	WATER	50	>12	Negative	Negative	
B1560-19	MF3FY8	WATER	50	>12	Negative	Negative	
B1560-20	MF3FZ8	WATER	50	>12	Negative	Negative	
B1560-21	MF3G01	WATER	50	>12	Negative	Negative	
PB48226BL	~~PB48226BL~~ PBW	WATER	50	>12	Negative	Negative	
PB48226BS	~~PB48226BS~~ LCSW	WATER	50	>12	Negative	Negative	

JM 3-12-10

* BL=Blank BS=Blank Spike TB=TCLP Blank

CHEMTECH Cynide Distillation Log

PrepBatch ID : PB48226

Lab Sample ID	Client Sample ID	Matrix	~~Weight/~~ Volume mL	PH	Sulfide	Oxidizing	Comments
B1560-18	MF3FY0	WATER	50	>12	NEGATIVE	NEGATIVE	
B1560-19	MF3FY8	WATER	50	>12	NEGATIVE	NEGATIVE	
B1560-20	MF3FZ8	WATER	50	>12	NEGATIVE	NEGATIVE	
B1560-21	MF3G01	WATER	50	>12	NEGATIVE	NEGATIVE	
PB48226BL	~~PB48226BL~~ PBW	WATER	50	>12	NEGATIVE	NEGATIVE	
PB48226BS	~~PB48226BS~~ LCSW	WATER	50	>12	NEGATIVE	NEGATIVE	

3-12-10 JA

* BL=Blank BS=Blank Spike TB=TCLP Blank

CHEMTECH Cynide Distillation Log Prep Code ID DW2

SOP : M 1LM05.3	Batch# PB48207
TEMP Set1: 124 Set2: 124	Distillation Date: 3 / 11 / 10
Balance Check(g):	Time In: 10:30
Wt1: 0.10 Wt2: 10.00 Wt3:	Time: Out 12:30
Final Vol: 50 mL	Reviewed By: J M 3-11-10
	Dig Technician Signature: JB

Standared Name	MLS USED	STD REF. # FROM LOG
ICV	0.5ML	MM1612
Spike Sol 1	1.0ML	W027703
LCSW1	0.5ML	MM1612
PBW/PBS	50ML	DIW031110

Chemical Used	Lot Number
0.25N NaOH	W029555
50% v/v H2SO4	WP1130
51% w/v MgCL2	WP1004

LAB SAMPLE ID	CLIENT SAMPLE ID	Wt(g)/Vol(ml)	COMMENTS
ICV PB48207	ICV		
Midrange PB48207	Midrange	2.5 ML OF W027703	50 ML W/ DI WATER
HIGHSTD PB48207	HIGHSTD	NA	
LOWSTD PB48207	LOWSTD	NA	

Date / Time	Received By	Relinquished By	Location
3/11/10 12:30	[signature]	JB	WC REF #2
	Analysis Group	Digestion Group	

COMMENTS

CHEMTECH Cynide Distillation Log

PrepBatch ID : PB48207

Lab Sample ID	Client Sample ID	Matrix	~~Weight/~~ Volume mL	PH	Sulfide	Oxidizing	Comments
B1560-01	MF3FX7	WATER	50	>12	Negative	Negative	
B1560-02	MF3FY1	WATER	50	>12	Negative	Negative	
B1560-03	MF3FY2	WATER	50	>12	Negative	Negative	
B1560-04	MF3FY3	WATER	50	>12	Negative	Negative	
B1560-05	MF3FY3D	WATER	50	>12	Negative	Negative	
B1560-06	MF3FY3S	WATER	50	>12	Negative	Negative	TV=100 PPB
B1560-07	MF3FY4	WATER	50	>12	Negative	Negative	
B1560-08	MF3FZ0	WATER	50	>12	Negative	Negative	
B1560-09	MF3FZ1	WATER	50	>12	Negative	Negative	
B1560-10	MF3FX8	WATER	50	>12	Negative	Negative	
B1560-11	MF3FX9	WATER	50	>12	Negative	Negative	
B1560-12	MF3FY6	WATER	50	>12	Negative	Negative	
B1560-13	MF3FY7	WATER	50	>12	Negative	Negative	
B1560-14	MF3FZ2	WATER	50	>12	Negative	Negative	
B1560-15	MF3FZ3	WATER	50	>12	Negative	Negative	
B1560-16	MF3FZ5	WATER	50	>12	Negative	Negative	
B1560-17	MF3FZ6	WATER	50	>12	Negative	Negative	
PB48207BL	~~PB48207BL~~ PBW	WATER	50	>12	Negative	Negative	
PB48207BS	~~PB48207BS~~ LCSW	WATER	50	>12	Negative	Negative	

JM 3-11-10

* BL=Blank BS=Blank Spike TB=TCLP Blank

CHEMTECH **Cynide Distillation Log** **PrepBatch ID : PB48207**

Lab Sample ID	Client Sample ID	Matrix	~~Weight/~~ Volume mL	PH	Sulfide	Oxidizing	Comments
B1560-01	MF3FX7	WATER	50	>12	Negative	Negative	
B1560-02	MF3FY1	WATER	50	>12	Negative	Negative	
B1560-03	MF3FY2	WATER	50	>12	Negative	Negative	
B1560-04	MF3FY3	WATER	50	>12	Negative	Negative	
B1560-05	MF3FY3D	WATER	50	>12	Negative	Negative	
B1560-06	MF3FY3S	WATER	50	>12	Negative	Negative	TV=100PPB
B1560-07	MF3FY4	WATER	50	>12	Negative	Negative	
B1560-08	MF3FZ0	WATER	50	>12	Negative	Negative	
B1560-09	MF3FZ1	WATER	50	>12	Negative	Negative	
B1560-10	MF3FX8	WATER	50	>12	Negative	Negative	
B1560-11	MF3FX9	WATER	50	>12	Negative	Negative	
B1560-12	MF3FY6	WATER	50	>12	Negative	Negative	
B1560-13	MF3FY7	WATER	50	>12	Negative	Negative	
B1560-14	MF3FZ2	WATER	50	>12	Negative	Negative	
B1560-15	MF3FZ3	WATER	50	>12	Negative	Negative	
B1560-16	MF3FZ5	WATER	50	>12	Negative	Negative	
B1560-17	MF3FZ6	WATER	50	>12	Negative	Negative	
PB48207BL	~~PB48207BL~~ PBW	WATER	50	>12	Negative	Negative	
PB48207BS	~~PB48207BS~~ LCSW	WATER	50	>12	Negative	Negative	

JM 3-11-10

* BL=Blank BS=Blank Spike TB=TCLP Blank

386

FedEx Express US Airbill 8717 6024 1174 0200 Form ID No. (W) FedEx Retrieval Copy (1)

1 From Date 3/9/10 Sender's FedEx Account Number

Sender's Name April Palmie Ph: 512-239-4152

Company TCEQ

Address 12100 Park 35 Circle MC-136 Austin, TX 78753 Fex Ex Acct: 3529 7878 7 Dept./Floor/Suite/Room

City State ZIP

2 Your Internal Billing Reference 70848

3 To Recipient's Name SNEHAL MEHTA Phone 908 789 8900

Company CHEMTECH

1 ☐ HOLD Weekday Print FedEx location address below. NOT available for FedEx First Overnight.

31 ☐ HOLD Saturday Print FedEx location address below. Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

Address 284 SHEFFIELD ST

We cannot deliver to P.O. boxes or P.O. ZIP codes. Dept./Floor/Suite/Room

Address

Print FedEx location address here if a HOLD option is selected.

City MOUNTAINSIDE State NJ ZIP 07092

KR 3/10/10 9:05

8717 6024 1174

4a Express Package Service * To most locations. *Packages up to 150 lbs.*

1 ☒ FedEx Priority Overnight Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

5 ☐ FedEx Standard Overnight Next business afternoon.* Saturday Delivery NOT available.

6 ☐ FedEx First Overnight Earliest next business morning delivery to select locations.* Saturday Delivery NOT available.

3 ☐ FedEx 2Day Second business day.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

20 ☐ FedEx Express Saver Third business day.* Saturday Delivery NOT available.

4b Express Freight Service ** To most locations. *Packages over 150 lbs.*

7 ☐ FedEx 1Day Freight Next business day.** Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected. FedEx 1Day Freight Booking No.

8 ☐ FedEx 2Day Freight Second business day.** Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

83 ☐ FedEx 3Day Freight Third business day.** Saturday Delivery NOT available.

5 Packaging * Declared value limit $500.

6 ☐ FedEx Envelope* 2 ☐ FedEx Pak* Includes FedEx Small Pak, FedEx Large Pak, and FedEx Sturdy Pak. 3 ☐ FedEx Box 4 ☐ FedEx Tube 1 ☒ Other

6 Special Handling and Delivery Signature Options

3 ☐ **SATURDAY DELIVERY**

☒ No Signature Required Package may be left without obtaining a signature for delivery.

10 ☐ Direct Signature Someone at recipient's address may sign for delivery. *Fee applies.*

34 ☐ Indirect Signature If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries only. *Fee applies.*

Does this shipment contain dangerous goods? One box must be checked.

☒ No 4 ☐ Yes As per attached Shipper's Declaration. ☐ Yes Shipper's Declaration not required. 6 ☐ Dry Ice Dry Ice, 9, UN 1845 ____ x ____ kg

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging or placed in a FedEx Express Drop Box.

☐ Cargo Aircraft Only

7 Payment *Bill to:* Enter FedEx Acct. No. or Credit Card No. below. Obtain Recip. Acct. No. ☐

1 ☒ Sender Acct. No. in Section 1 will be billed. 2 ☐ Recipient 3 ☐ Third Party 4 ☐ Credit Card 5 ☐ Cash/Check

Total Packages 1 Total Weight 100 lbs. Credit Card Auth.

[1] Our liability is limited to $100 unless you declare a higher value. See the current FedEx Service Guide for details.

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387

FedEx Express US Airbill 8717 6024 1141 0200 Form ID No. 10 FedEx Retrieval Copy

1 From

Date | Sender's FedEx Account Number

Sender's Name: April Palmie Ph: 512-239-4152

Company: TCEQ

Address: 12100 Park 35 Circle MC-136 Austin, TX 78753 Fex Ex Acct: 3529 7878 7 | Dept./Floor/Suite/Room

City | State | ZIP 70848

2 Your Internal Billing Reference

3 To

Recipient's Name: SNEHAL MEHTA Phone: 908 789 8900

Company: CHEMTECH

Address: 284 SHEFFIELD ST

We cannot deliver to P.O. boxes or P.O. ZIP codes. | Dept./Floor/Suite/Room

1 ☐ HOLD Weekday — Print FedEx location address below. NOT available for FedEx First Overnight.

31 ☐ HOLD Saturday — Print FedEx location address below. Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

Address: Print FedEx location address here if a HOLD option is selected.

City: MOUNTAINSIDE State: NJ ZIP: 07092

KR 3/11/10 9:20

8717 6024 1141

4a Express Package Service * To most locations. Packages up to 150 lbs.

1 ☒ FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

5 ☐ FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.

6 ☐ FedEx First Overnight — Earliest next business morning delivery to select locations.* Saturday Delivery NOT available.

3 ☐ FedEx 2Day — Second business day.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

20 ☐ FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

4b Express Freight Service ** To most locations. Packages over 150 lbs.

7 ☐ FedEx 1Day Freight — Next business day.** Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

FedEx 1Day Freight Booking No.

8 ☐ FedEx 2Day Freight — Second business day.** Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

83 ☐ FedEx 3Day Freight — Third business day.** Saturday Delivery NOT available.

5 Packaging * Declared value limit $500.

6 ☐ FedEx Envelope* 2 ☐ FedEx Pak* — Includes FedEx Small Pak, FedEx Large Pak, and FedEx Sturdy Pak. 3 ☐ FedEx Box 4 ☐ FedEx Tube 1 ☒ Other

6 Special Handling and Delivery Signature Options

3 ☐ **SATURDAY DELIVERY**

☒ No Signature Required — Package may be left without obtaining a signature for delivery.

10 ☐ Direct Signature — Someone at recipient's address may sign for delivery. *Fee applies.*

34 ☐ Indirect Signature — If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries only. *Fee applies.*

Does this shipment contain dangerous goods? One box must be checked.

☒ No 4 ☐ Yes — As per attached Shipper's Declaration. ☐ Yes — Shipper's Declaration not required. 6 ☐ Dry Ice — Dry ice, 9, UN 1845 ____ x ____ kg

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging or placed in a FedEx Express Drop Box.

☐ Cargo Aircraft Only

7 Payment *Bill to:*

Enter FedEx Acct. No. or Credit Card No. below. Obtain Recip. Acct. No. ☐

1 ☒ Sender — Acct. No. in Section 1 will be billed. 2 ☐ Recipient 3 ☐ Third Party 4 ☐ Credit Card 5 ☐ Cash/Check

Total Packages: 1 Total Weight: 87 lbs. Credit Card Auth.

†Our liability is limited to $100 unless you declare a higher value. See the current FedEx Service Guide for details.

554

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386

FedEx Express US Airbill 8705 3693 4142 0200 Form ID No.

FedEx Retrieval Copy

1 From

Date Sender's FedEx Account Number

Sender's Name April Palmie Ph: 512-239-4152

Company TCEQ

12100 Park 35 Circle MC-136

Address Austin, TX 78753

Fex Ex Acct: 3529 7878 7

Dept./Floor/Suite/Room

City State ZIP

2 Your Internal Billing Reference 70848

3 To

Recipient's Name SNEHAL MEHTA Phone 908 789 8900

Company CHEMTECH

1 ☐ HOLD Weekday Print FedEx location address below. NOT available for FedEx First Overnight.

31 ☐ HOLD Saturday Print FedEx location address below. Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

Address 284 SHEFFIELD ST

We cannot deliver to P.O. boxes or P.O. ZIP codes.

Dept./Floor/Suite/Room

Address

Print FedEx location address here if a HOLD option is selected.

City MOUNTAINSIDE State NJ ZIP 07092

KR 9:15 3/12/10

8705 3693 4142

4a Express Package Service * To most locations. *Packages up to 150 lbs.*

1 ☒ FedEx Priority Overnight Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

5 ☐ FedEx Standard Overnight Next business afternoon.* Saturday Delivery NOT available.

6 ☐ FedEx First Overnight Earliest next business morning delivery to select locations.* Saturday Delivery NOT available.

3 ☐ FedEx 2Day Second business day.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

20 ☐ FedEx Express Saver Third business day.* Saturday Delivery NOT available.

4b Express Freight Service ** To most locations. *Packages over 150 lbs.*

7 ☐ FedEx 1Day Freight Next business day.** Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

FedEx 1Day Freight Booking No.

8 ☐ FedEx 2Day Freight Second business day.** Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

83 ☐ FedEx 3Day Freight Third business day.** Saturday Delivery NOT available.

5 Packaging * Declared value limit $500.

6 ☐ FedEx Envelope* 2 ☐ FedEx Pak* Includes FedEx Small Pak, FedEx Large Pak, and FedEx Sturdy Pak. 3 ☐ FedEx Box 4 ☐ FedEx Tube 1 ☒ Other

6 Special Handling and Delivery Signature Options

3 ☐ **SATURDAY DELIVERY**

☐ No Signature Required Package may be left without obtaining a signature for delivery.

10 ☐ Direct Signature Someone at recipient's address may sign for delivery. *Fee applies.*

34 ☐ Indirect Signature If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries only. *Fee applies.*

Does this shipment contain dangerous goods?

One box must be checked.

☒ No 4 ☐ Yes As per attached Shipper's Declaration. ☐ Yes Shipper's Declaration not required. 6 ☐ Dry Ice Dry ice, 9, UN 1845 ____ x ____ kg

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging or placed in a FedEx Express Drop Box.

☐ Cargo Aircraft Only

7 Payment *Bill to:*

Enter FedEx Acct. No. or Credit Card No. below.

Obtain Recip. Acct. No. ☐

1 ☒ Sender Acct. No. in Section 1 will be billed. 2 ☐ Recipient 3 ☐ Third Party 4 ☐ Credit Card 5 ☐ Cash/Check

Total Packages 1 Total Weight 45 lbs. Credit Card Auth.

†Our liability is limited to $100 unless you declare a higher value. See the current FedEx Service Guide for details.

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LOGIN REPORT

Order ID:	B1560 USEP01	Order Date:	3/10/2010	Project Mgr:	snehal
Client Name:	USEPA CLP SMO	Project Name:	39551	Report Type:	USEPA CLP
Client Contact:	Anita Kapadia	Rec DateTime	3/10/2010 9:05:00 AM	EDD:	EPA CLP
Invoice Name:	USEPA CLP SMO	Purchase Order:		Hard Copy Date:	1
Invoice Contact	Anita Kapadia	Login Tech:	mayur	Date Signoff:	3/10/2010 11:43:34 AM

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	QTY	TEST	TEST GROUP	METHOD	COMMENT	FAX DATE	Due Dates
B1560-01	MF3FX7	Water	3/9/2010		2						
						Cyanide		ILM05.3	5 Bus.	3/19/2010 12:00:00 AM	3/19/2010 11:00:00 AM
						Mercury		ILM05.3	5 Bus.	3/19/2010 12:00:00 AM	3/19/2010 11:00:00 AM
						Metals CLP Full		ILM05.3	5 Bus.	3/19/2010 12:00:00 AM	3/19/2010 11:00:00 AM
B1560-02	MF3FY1	Water	3/9/2010		2						
						Cyanide		ILM05.3	5 Bus.	3/19/2010 12:00:00 AM	3/19/2010 11:00:00 AM
						Mercury		ILM05.3	5 Bus.	3/19/2010 12:00:00 AM	3/19/2010 11:00:00 AM
						Metals CLP Full		ILM05.3	5 Bus.	3/19/2010 12:00:00 AM	3/19/2010 11:00:00 AM

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LOGIN REPORT

Order ID:	B1560 USEP01	Order Date:	3/10/2010	Project Mgr:	snehal
Client Name:	USEPA CLP SMO	Project Name:	39551	Report Type:	USEPA CLP
Client Contact:	Anita Kapadia	Rec DateTime	3/10/2010 9:05:00 AM	EDD:	EPA CLP
Invoice Name:	USEPA CLP SMO	Purchase Order:		Hard Copy Date:	1
Invoice Contact	Anita Kapadia	Login Tech:	mayur	Date Signoff:	3/10/2010 11:43:34 AM

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	QTY	TEST	TEST GROUP	METHOD	COMMENT	FAX DATE	Due Dates
B1560-03	MF3FY2	Water	3/9/2010		2						
						Cyanide		ILM05.3	5 Bus.	3/19/2010 12:00:00 AM	3/19/2010 11:00:00 AM
						Mercury		ILM05.3	5 Bus.	3/19/2010 12:00:00 AM	3/19/2010 11:00:00 AM
						Metals CLP Full		ILM05.3	5 Bus.	3/19/2010 12:00:00 AM	3/19/2010 11:00:00 AM
B1560-04	MF3FY3	Water	3/9/2010		2						
						Cyanide		ILM05.3	5 Bus.	3/19/2010 12:00:00 AM	3/19/2010 11:00:00 AM
						Mercury		ILM05.3	5 Bus.	3/19/2010 12:00:00 AM	3/19/2010 11:00:00 AM
						Metals CLP Full		ILM05.3	5 Bus.	3/19/2010 12:00:00 AM	3/19/2010 11:00:00 AM

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LOGIN REPORT

Order ID:	B1560 USEP01	Order Date:	3/10/2010	Project Mgr:	snehal
Client Name:	USEPA CLP SMO	Project Name:	39551	Report Type:	USEPA CLP
Client Contact:	Anita Kapadia	Rec DateTime	3/10/2010 9:05:00 AM	EDD:	EPA CLP
Invoice Name:	USEPA CLP SMO	Purchase Order:		Hard Copy Date:	1
Invoice Contact	Anita Kapadia	Login Tech:	mayur	Date Signoff:	3/10/2010 11:43:34 AM

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	QTY	TEST	TEST GROUP	METHOD	COMMENT	FAX DATE	Due Dates
B1560-05	MF3FY3D	Water	3/9/2010		2						
						Cyanide		ILM05.3	5 Bus.	3/19/2010 12:00:00 AM	3/19/2010 11:00:00 AM
						Mercury		ILM05.3	5 Bus.	3/19/2010 12:00:00 AM	3/19/2010 11:00:00 AM
						Metals CLP Full		ILM05.3	5 Bus.	3/19/2010 12:00:00 AM	3/19/2010 11:00:00 AM
B1560-06	MF3FY3S	Water	3/9/2010		2						
						Cyanide		ILM05.3	5 Bus.	3/19/2010 12:00:00 AM	3/19/2010 11:00:00 AM
						Mercury		ILM05.3	5 Bus.	3/19/2010 12:00:00 AM	3/19/2010 11:00:00 AM
						Metals CLP Full		ILM05.3	5 Bus.	3/19/2010 12:00:00 AM	3/19/2010 11:00:00 AM

LOGIN REPORT

Order ID:	B1560 USEP01	Order Date:	3/10/2010	Project Mgr:	snehal
Client Name:	USEPA CLP SMO	Project Name:	39551	Report Type:	USEPA CLP
Client Contact:	Anita Kapadia	Rec DateTime	3/10/2010 9:05:00 AM	EDD:	EPA CLP
Invoice Name:	USEPA CLP SMO	Purchase Order:		Hard Copy Date:	1
Invoice Contact	Anita Kapadia	Login Tech:	mayur	Date Signoff:	3/10/2010 11:43:34 AM

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	QTY	TEST	TEST GROUP	METHOD	COMMENT	FAX DATE	Due Dates
B1560-07	MF3FY4	Water	3/9/2010		2						
						Cyanide		ILM05.3	5 Bus.	3/19/2010 12:00:00 AM	3/19/2010 11:00:00 AM
						Mercury		ILM05.3	5 Bus.	3/19/2010 12:00:00 AM	3/19/2010 11:00:00 AM
						Metals CLP Full		ILM05.3	5 Bus.	3/19/2010 12:00:00 AM	3/19/2010 11:00:00 AM
B1560-08	MF3FZ0	Water	3/9/2010		2						
						Cyanide		ILM05.3	5 Bus.	3/19/2010 12:00:00 AM	3/19/2010 11:00:00 AM
						Mercury		ILM05.3	5 Bus.	3/19/2010 12:00:00 AM	3/19/2010 11:00:00 AM
						Metals CLP Full		ILM05.3	5 Bus.	3/19/2010 12:00:00 AM	3/19/2010 11:00:00 AM

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LOGIN REPORT

Order ID:	B1560 USEP01	Order Date:	3/10/2010	Project Mgr:	snehal
Client Name:	USEPA CLP SMO	Project Name:	39551	Report Type:	USEPA CLP
Client Contact:	Anita Kapadia	Rec DateTime	3/10/2010 9:05:00 AM	EDD:	EPA CLP
Invoice Name:	USEPA CLP SMO	Purchase Order:		Hard Copy Date:	1
Invoice Contact	Anita Kapadia	Login Tech:	mayur	Date Signoff:	3/10/2010 11:43:34 AM

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	QTY	TEST	TEST GROUP	METHOD	COMMENT	FAX DATE	Due Dates
B1560-09	MF3FZ1	Water	3/9/2010		2						
						Cyanide		ILM05.3	5 Bus.	3/19/2010 12:00:00 AM	3/19/2010 11:00:00 AM
						Mercury		ILM05.3	5 Bus.	3/19/2010 12:00:00 AM	3/19/2010 11:00:00 AM
						Metals CLP Full		ILM05.3	5 Bus.	3/19/2010 12:00:00 AM	3/19/2010 11:00:00 AM
B1560-10	MF3FX8	Water	3/10/2010		2						
						Cyanide		ILM05.3	5 Bus.	3/19/2010 12:00:00 AM	3/19/2010 11:00:00 AM
						Mercury		ILM05.3	5 Bus.	3/19/2010 12:00:00 AM	3/19/2010 11:00:00 AM
						Metals CLP Full		ILM05.3	5 Bus.	3/19/2010 12:00:00 AM	3/19/2010 11:00:00 AM

LOGIN REPORT

Order ID:	B1560 USEP01	Order Date:	3/10/2010	Project Mgr:	snehal
Client Name:	USEPA CLP SMO	Project Name:	39551	Report Type:	
Client Contact:	Anita Kapadia	Rec DateTime	3/11/2010 9:20:00 AM	EDD:	
Invoice Name:	USEPA CLP SMO	Purchase Order:		Hard Copy Date:	2
Invoice Contact	Anita Kapadia	Login Tech:	mayur	Date Signoff:	3/10/2010 11:43:34 AM

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	QTY	TEST	TEST GROUP	METHOD	COMMENT	FAX DATE	Due Dates
B1560-11	MF3FX9	Water	3/10/2010		2						
						Cyanide		ILM05.3	5 Bus.	3/19/2010 12:00:00 AM	3/19/2010 11:00:00 AM
						Mercury		ILM05.3	5 Bus.	3/19/2010 12:00:00 AM	3/19/2010 11:00:00 AM
						Metals CLP Full		ILM05.3	5 Bus.	3/19/2010 12:00:00 AM	3/19/2010 11:00:00 AM
B1560-12	MF3FY6	Water	3/10/2010		2						
						Cyanide		ILM05.3	5 Bus.	3/19/2010 12:00:00 AM	3/19/2010 11:00:00 AM
						Mercury		ILM05.3	5 Bus.	3/19/2010 12:00:00 AM	3/19/2010 11:00:00 AM
						Metals CLP Full		ILM05.3	5 Bus.	3/19/2010 12:00:00 AM	3/19/2010 11:00:00 AM

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LOGIN REPORT

Order ID:	B1560 USEP01	Order Date:	3/10/2010	Project Mgr:	snehal
Client Name:	USEPA CLP SMO	Project Name:	39551	Report Type:	
Client Contact:	Anita Kapadia	Rec DateTime	3/11/2010 9:20:00 AM	EDD:	
Invoice Name:	USEPA CLP SMO	Purchase Order:		Hard Copy Date:	2
Invoice Contact	Anita Kapadia	Login Tech:	mayur	Date Signoff:	3/10/2010 11:43:34 AM

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	QTY	TEST	TEST GROUP	METHOD	COMMENT	FAX DATE	Due Dates
B1560-13	MF3FY7	Water	3/10/2010		2						
						Cyanide		ILM05.3	5 Bus.	3/19/2010 12:00:00 AM	3/19/2010 11:00:00 AM
						Mercury		ILM05.3	5 Bus.	3/19/2010 12:00:00 AM	3/19/2010 11:00:00 AM
						Metals CLP Full		ILM05.3	5 Bus.	3/19/2010 12:00:00 AM	3/19/2010 11:00:00 AM
B1560-14	MF3FZ2	Water	3/10/2010		2						
						Cyanide		ILM05.3	5 Bus.	3/19/2010 12:00:00 AM	3/19/2010 11:00:00 AM
						Mercury		ILM05.3	5 Bus.	3/19/2010 12:00:00 AM	3/19/2010 11:00:00 AM
						Metals CLP Full		ILM05.3	5 Bus.	3/19/2010 12:00:00 AM	3/19/2010 11:00:00 AM

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LOGIN REPORT

Order ID:	B1560 USEP01	Order Date:	3/10/2010	Project Mgr:	snehal
Client Name:	USEPA CLP SMO	Project Name:	39551	Report Type:	
Client Contact:	Anita Kapadia	Rec DateTime	3/11/2010 9:20:00 AM	EDD:	
Invoice Name:	USEPA CLP SMO	Purchase Order:		Hard Copy Date:	2
Invoice Contact	Anita Kapadia	Login Tech:	mayur	Date Signoff:	3/10/2010 11:43:34 AM

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	QTY	TEST	TEST GROUP	METHOD	COMMENT	FAX DATE	Due Dates
B1560-15	MF3FZ3	Water	3/10/2010		2						
						Cyanide		ILM05.3	5 Bus.	3/19/2010 12:00:00 AM	3/19/2010 11:00:00 AM
						Mercury		ILM05.3	5 Bus.	3/19/2010 12:00:00 AM	3/19/2010 11:00:00 AM
						Metals CLP Full		ILM05.3	5 Bus.	3/19/2010 12:00:00 AM	3/19/2010 11:00:00 AM
B1560-16	MF3FZ5	Water	3/10/2010		2						
						Cyanide		ILM05.3	5 Bus.	3/19/2010 12:00:00 AM	3/19/2010 11:00:00 AM
						Mercury		ILM05.3	5 Bus.	3/19/2010 12:00:00 AM	3/19/2010 11:00:00 AM
						Metals CLP Full		ILM05.3	5 Bus.	3/19/2010 12:00:00 AM	3/19/2010 11:00:00 AM

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LOGIN REPORT

Order ID:	B1560 USEP01	Order Date:	3/10/2010	Project Mgr:	snehal
Client Name:	USEPA CLP SMO	Project Name:	39551	Report Type:	
Client Contact:	Anita Kapadia	Rec DateTime	3/11/2010 9:20:00 AM	EDD:	
Invoice Name:	USEPA CLP SMO	Purchase Order:		Hard Copy Date:	2
Invoice Contact	Anita Kapadia	Login Tech:	mayur	Date Signoff:	3/10/2010 11:43:34 AM

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	QTY	TEST	TEST GROUP	METHOD	COMMENT	FAX DATE	Due Dates
B1560-17	MF3FZ6	Water	3/10/2010		2						
						Cyanide		ILM05.3	5 Bus.	3/19/2010 12:00:00 AM	3/19/2010 11:00:00 AM
						Mercury		ILM05.3	5 Bus.	3/19/2010 12:00:00 AM	3/19/2010 11:00:00 AM
						Metals CLP Full		ILM05.3	5 Bus.	3/19/2010 12:00:00 AM	3/19/2010 11:00:00 AM
B1560-18	MF3FY0	Water	3/11/2010		2						
						Cyanide		ILM05.3	5 Bus.	3/19/2010 12:00:00 AM	3/19/2010 11:00:00 AM
						Mercury		ILM05.3	5 Bus.	3/19/2010 12:00:00 AM	3/19/2010 11:00:00 AM
						Metals CLP Full		ILM05.3	5 Bus.	3/19/2010 12:00:00 AM	3/19/2010 11:00:00 AM

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LOGIN REPORT

Order ID:	B1560 USEP01	Order Date:	3/10/2010	Project Mgr:	snehal
Client Name:	USEPA CLP SMO	Project Name:	39551	Report Type:	
Client Contact:	Anita Kapadia	Rec DateTime	3/12/2010 9:15:00 AM	EDD:	
Invoice Name:	USEPA CLP SMO	Purchase Order:		Hard Copy Date:	3
Invoice Contact	Anita Kapadia	Login Tech:	mayur	Date Signoff:	3/10/2010 11:43:34 AM

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	QTY	TEST	TEST GROUP	METHOD	COMMENT	FAX DATE	Due Dates
B1560-19	MF3FY8	Water	3/11/2010		2						
						Cyanide		ILM05.3	5 Bus.	3/19/2010 12:00:00 AM	3/19/2010 11:00:00 AM
						Mercury		ILM05.3	5 Bus.	3/19/2010 12:00:00 AM	3/19/2010 11:00:00 AM
						Metals CLP Full		ILM05.3	5 Bus.	3/19/2010 12:00:00 AM	3/19/2010 11:00:00 AM
B1560-20	MF3FZ8	Water	3/11/2010		2						
						Cyanide		ILM05.3	5 Bus.	3/19/2010 12:00:00 AM	3/19/2010 11:00:00 AM
						Mercury		ILM05.3	5 Bus.	3/19/2010 12:00:00 AM	3/19/2010 11:00:00 AM
						Metals CLP Full		ILM05.3	5 Bus.	3/19/2010 12:00:00 AM	3/19/2010 11:00:00 AM

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LOGIN REPORT

Order ID:	B1560 USEP01	Order Date:	3/10/2010	Project Mgr:	snehal
Client Name:	USEPA CLP SMO	Project Name:	39551	Report Type:	
Client Contact:	Anita Kapadia	Rec DateTime	3/12/2010 9:15:00 AM	EDD:	
Invoice Name:	USEPA CLP SMO	Purchase Order:		Hard Copy Date:	3
Invoice Contact	Anita Kapadia	Login Tech:	mayur	Date Signoff:	3/10/2010 11:43:34 AM

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	QTY	TEST	TEST GROUP	METHOD	COMMENT	FAX DATE	Due Dates
B1560-21	MF3G01	Water	3/11/2010		2						
						Cyanide		ILM05.3	5 Bus.	3/19/2010 12:00:00 AM	3/19/2010 11:00:00 AM
						Mercury		ILM05.3	5 Bus.	3/19/2010 12:00:00 AM	3/19/2010 11:00:00 AM
						Metals CLP Full		ILM05.3	5 Bus.	3/19/2010 12:00:00 AM	3/19/2010 11:00:00 AM

SAMPLE CONDITION RECORD

Are samples submitted with a chain of custody?	Yes
Are the number of samples the same as stated on the chain of custody?	Yes
Are bottle caps tight and securely in place?	Yes
Were all containers intact when received?	Yes
Were samples submitted in an ice chest?	Yes
Were samples received cold?	Yes
Were samples within the holding time for the requested test(s)?	Yes
Is the volume of sample submitted sufficient for the requested test(s)?	Yes
Are all samples for volatile organic analyses free of headspace?	NA

ORDER COMMENT

Case-39551, SDG#MF3FX7

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WORKLIST(Hardcopy Internal Chain)

rklist Name B1560 Date: 10-Mar-10

Due Date	matrix	Sample	Test	Preservative	Customer	Storage location	Customer Sample	Collect Date	METHOD
3/9/2010	Water	B1560-01	Metals CLP Full	Conc	USEPA CLP SMO	A31	MF3FX7	3/9/2010	ILM05.3
3/9/2010	Water	B1560-02	Metals CLP Full	Conc	USEPA CLP SMO	A31	MF3FY1	3/9/2010	ILM05.3
3/9/2010	Water	B1560-03	Metals CLP Full	Conc	USEPA CLP SMO	A31	MF3FY2	3/9/2010	ILM05.3
3/9/2010	Water	B1560-04	Metals CLP Full	Conc	USEPA CLP SMO	A31	MF3FY3	3/9/2010	ILM05.3
3/9/2010	Water	B1560-05	Metals CLP Full	Conc	USEPA CLP SMO	A31	MF3FY3D	3/9/2010	ILM05.3
3/9/2010	Water	B1560-06	Metals CLP Full	Conc	USEPA CLP SMO	A31	MF3FY3S	3/9/2010	ILM05.3
3/9/2010	Water	B1560-07	Metals CLP Full	Conc	USEPA CLP SMO	A31	MF3FY4	3/9/2010	ILM05.3
3/9/2010	Water	B1560-08	Metals CLP Full	Conc	USEPA CLP SMO	A31	MF3FZ0	3/9/2010	ILM05.3
3/9/2010	Water	B1560-09	Metals CLP Full	Conc	USEPA CLP SMO	A31	MF3FZ1	3/9/2010	ILM05.3

ate/Time 03/10/10 10-04
eceived by: NP
elinquished by: Ken R

Date/Time 03/10/10 3:15
Received by: Ken R
Relinquished by: NP

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WORKLIST(Hardcopy Internal Chain)

orklist Name B1560M **Date:** 11-Mar-10

Due Date	matrix	Sample	Test	Preservative	Customer	Storage location	Customer Sample	Collect Date	METHOD
3/9/2010	Water	B1560-10	Metals CLP Full	Conc	USEPA CLP SMO	A31	MF3FX8	3/10/2010	ILM05.3
3/10/2010	Water	B1560-11	Metals CLP Full	Conc	USEPA CLP SMO	A31	MF3FX9	3/10/2010	ILM05.3
3/10/2010	Water	B1560-12	Metals CLP Full	Conc	USEPA CLP SMO	A31	MF3FY6	3/10/2010	ILM05.3
3/10/2010	Water	B1560-13	Metals CLP Full	Conc	USEPA CLP SMO	A31	MF3FY7	3/10/2010	ILM05.3
3/10/2010	Water	B1560-14	Metals CLP Full	Conc	USEPA CLP SMO	A31	MF3FZ2	3/10/2010	ILM05.3
3/10/2010	Water	B1560-15	Metals CLP Full	Conc	USEPA CLP SMO	A31	MF3FZ3	3/10/2010	ILM05.3
3/10/2010	Water	B1560-16	Metals CLP Full	Conc	USEPA CLP SMO	A31	MF3FZ5	3/10/2010	ILM05.3
3/10/2010	Water	B1560-17	Metals CLP Full	Conc	USEPA CLP SMO	A31	MF3FZ6	3/10/2010	ILM05.3

ate/Time 03/11/11 11:15
eceived by: NP
elinquished by: Ken

Date/Time 03/11/11 1:00
Received by: Ken
Relinquished by: NP

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WORKLIST(Hardcopy Internal Chain)

Worklist Name b1560meta **Date:** 06-Nov-03

Due Date	matrix	Sample	Test	Preservative	Customer	Storage location	Customer Sample	Collect Date	METHOD
3/10/2010	Water	B1560-18	Metals CLP Full	Conc	USEPA CLP SMO	A31	MF3FY0	3/11/2010	ILM05.3
3/10/2010	Water	B1560-19	Metals CLP Full	Conc	USEPA CLP SMO	A31	MF3FY8	3/11/2010	ILM05.3
3/10/2010	Water	B1560-20	Metals CLP Full	Conc	USEPA CLP SMO	A31	MF3FZ8	3/11/2010	ILM05.3
3/10/2010	Water	B1560-21	Metals CLP Full	Conc	USEPA CLP SMO	A31	MF3G01	3/11/2010	ILM05.3

Date/Time 03/15/10 9:00
Received by: NP
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Date/Time 03/15/10 1:45
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LB48952

WORKLIST(Hardcopy Internal Chain)

Worklist Name PM5-0312 **Date:** 12-Mar-10

PB48233

Due Date	matrix	Sample	Test	Preservative	Customer	Storage location	Customer Sample	Collect Date	METHOD
3/18/2010 9:20:00 AM	Water	B1560-18	Mercury	Conc	USEPA CLP SMO	A31	MF3FY0	3/11/2010	ILM05.3
3/18/2010 9:20:00 AM	Water	B1560-19	Mercury	Conc	USEPA CLP SMO	A31	MF3FY8	3/11/2010	ILM05.3
3/18/2010 9:20:00 AM	Water	B1560-20	Mercury	Conc	USEPA CLP SMO	A31	MF3FZ8	3/11/2010	ILM05.3
3/18/2010 9:20:00 AM	Water	B1560-21	Mercury	Conc	USEPA CLP SMO	A31	MF3G01	3/11/2010	ILM05.3

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Date/Time 03/15/10.
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403

L8348952

WORKLIST(Hardcopy Internal Chain)

Worklist Name B1560HG **Date:** 15-Mar-10

PB348233

Due Date	matrix	Sample	Test	Preservative	Customer	Storage location	Customer Sample	Collect Date	METHOD
3/17/2010 9:05:00 AM	Water	B1560-01	Mercury	Conc	USEPA CLP SMO	A31	MF3FX7	3/9/2010	ILM05.3
3/17/2010 9:05:00 AM	Water	B1560-02	Mercury	Conc	USEPA CLP SMO	A31	MF3FY1	3/9/2010	ILM05.3
3/17/2010 9:05:00 AM	Water	B1560-03	Mercury	Conc	USEPA CLP SMO	A31	MF3FY2	3/9/2010	ILM05.3
3/17/2010 9:05:00 AM	Water	B1560-04	Mercury O	Conc	USEPA CLP SMO	A31	MF3FY3	3/9/2010	ILM05.3
3/17/2010 9:05:00 AM	Water	B1560-05	Mercury D	Conc	USEPA CLP SMO	A31	MF3FY3D	3/9/2010	ILM05.3
3/17/2010 9:05:00 AM	Water	B1560-06	Mercury S	Conc	USEPA CLP SMO	A31	MF3FY3S	3/9/2010	ILM05.3
3/17/2010 9:05:00 AM	Water	B1560-07	Mercury	Conc	USEPA CLP SMO	A31	MF3FY4	3/9/2010	ILM05.3
3/17/2010 9:05:00 AM	Water	B1560-08	Mercury	Conc	USEPA CLP SMO	A31	MF3FZ0	3/9/2010	ILM05.3
3/17/2010 9:05:00 AM	Water	B1560-09	Mercury	Conc	USEPA CLP SMO	A31	MF3FZ1	3/9/2010	ILM05.3

Date/Time 03/15/10
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404

LB48952

WORKLIST(Hardcopy Internal Chain)

PB48233

Worklist Name B1560HG1 **Date:** 15-Mar-10

Due Date	matrix	Sample	Test	Preservative	Customer	Storage location	Customer Sample	Collect Date	METHOD
3/17/2010 9:05:00 AM	Water	B1560-10	Mercury	Conc	USEPA CLP SMO	A31	MF3FX8	3/10/2010	ILM05.3
3/18/2010 9:20:00 AM	Water	B1560-11	Mercury	Conc	USEPA CLP SMO	A31	MF3FX9	3/10/2010	ILM05.3
3/18/2010 9:20:00 AM	Water	B1560-12	Mercury	Conc	USEPA CLP SMO	A31	MF3FY6	3/10/2010	ILM05.3
3/18/2010 9:20:00 AM	Water	B1560-13	Mercury	Conc	USEPA CLP SMO	A31	MF3FY7	3/10/2010	ILM05.3
3/18/2010 9:20:00 AM	Water	B1560-14	Mercury	Conc	USEPA CLP SMO	A31	MF3FZ2	3/10/2010	ILM05.3
3/18/2010 9:20:00 AM	Water	B1560-15	Mercury	Conc	USEPA CLP SMO	A31	MF3FZ3	3/10/2010	ILM05.3
3/18/2010 9:20:00 AM	Water	B1560-16	Mercury	Conc	USEPA CLP SMO	A31	MF3FZ5	3/10/2010	ILM05.3
3/18/2010 9:20:00 AM	Water	B1560-17	Mercury	Conc	USEPA CLP SMO	A31	MF3FZ6	3/10/2010	ILM05.3

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Date/Time 03/15/10
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WORKLIST(Hardcopy Internal Chain)

Worklist Name b1560cy **Date:** 11-Mar-10 PB48207

Due Date	matrix	Sample	Test	Preservative	Customer	Storage location	Customer Sample	Collect Date	METHOD
3/17/2010 9:05:00 AM	Water	B1560-01	Cyanide	NaOH	USEPA CLP SMO	A31	MF3FX7	3/9/2010	ILM05.3
3/17/2010 9:05:00 AM	Water	B1560-02	Cyanide	NaOH	USEPA CLP SMO	A31	MF3FY1	3/9/2010	ILM05.3
3/17/2010 9:05:00 AM	Water	B1560-03	Cyanide	NaOH	USEPA CLP SMO	A31	MF3FY2	3/9/2010	ILM05.3
3/17/2010 9:05:00 AM	Water	B1560-04	Cyanide ORG	NaOH	USEPA CLP SMO	A31	MF3FY3	3/9/2010	ILM05.3
3/17/2010 9:05:00 AM	Water	B1560-05	Cyanide DUP	NaOH	USEPA CLP SMO	A31	MF3FY3D	3/9/2010	ILM05.3
3/17/2010 9:05:00 AM	Water	B1560-06	Cyanide SPIKE	NaOH	USEPA CLP SMO	A31	MF3FY3S	3/9/2010	ILM05.3
3/17/2010 9:05:00 AM	Water	B1560-07	Cyanide	NaOH	USEPA CLP SMO	A31	MF3FY4	3/9/2010	ILM05.3
3/17/2010 9:05:00 AM	Water	B1560-08	Cyanide	NaOH	USEPA CLP SMO	A31	MF3FZ0	3/9/2010	ILM05.3
3/17/2010 9:05:00 AM	Water	B1560-09	Cyanide	NaOH	USEPA CLP SMO	A31	MF3FZ1	3/9/2010	ILM05.3
3/17/2010 9:05:00 AM	Water	B1560-10	Cyanide	NaOH	USEPA CLP SMO	A31	MF3FX8	3/10/2010	ILM05.3
3/18/2010 9:20:00 AM	Water	B1560-11	Cyanide	NaOH	USEPA CLP SMO	A31	MF3FX9	3/10/2010	ILM05.3
3/18/2010 9:20:00 AM	Water	B1560-12	Cyanide	NaOH	USEPA CLP SMO	A31	MF3FY6	3/10/2010	ILM05.3
3/18/2010 9:20:00 AM	Water	B1560-13	Cyanide	NaOH	USEPA CLP SMO	A31	MF3FY7	3/10/2010	ILM05.3
3/18/2010 9:20:00 AM	Water	B1560-14	Cyanide	NaOH	USEPA CLP SMO	A31	MF3FZ2	3/10/2010	ILM05.3
3/18/2010 9:20:00 AM	Water	B1560-15	Cyanide	NaOH	USEPA CLP SMO	A31	MF3FZ3	3/10/2010	ILM05.3
3/18/2010 9:20:00 AM	Water	B1560-16	Cyanide	NaOH	USEPA CLP SMO	A31	MF3FZ5	3/10/2010	ILM05.3
3/18/2010 9:20:00 AM	Water	B1560-17	Cyanide	NaOH	USEPA CLP SMO	A31	MF3FZ6	3/10/2010	ILM05.3

Date/Time 3/11/10 10:00
Received by: RB
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Date/Time 3/11/10 12:30
Received by: Ken R.
Relinquished by:

406

WORKLIST(Hardcopy Internal Chain)

Worklist Name b1560cy1 **Date:** 12-Mar-10 DB48226

Due Date	matrix	Sample	Test	Preservative	Customer	Storage location	Customer Sample	Collect Date	METHOD
3/18/2010 9:20:00 AM	Water	B1560-18	Cyanide	NaOH	USEPA CLP SMO	A31	MF3FY0	3/11/2010	ILM05.3
3/18/2010 9:20:00 AM	Water	B1560-19	Cyanide	NaOH	USEPA CLP SMO	A31	MF3FY8	3/11/2010	ILM05.3
3/18/2010 9:20:00 AM	Water	B1560-20	Cyanide	NaOH	USEPA CLP SMO	A31	MF3FZ8	3/11/2010	ILM05.3
3/18/2010 9:20:00 AM	Water	B1560-21	Cyanide	NaOH	USEPA CLP SMO	A31	MF3G01	3/11/2010	ILM05.3

Date/Time 3-12-10 11:00
Received by: JB
Relinquished by: HL

Date/Time 3/12/10 4:00
Received by: HL
Relinquished by: JB