



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 2 Laboratory
2890 Woodbridge Avenue
Edison, New Jersey 08837
732-906-6886 Phone
732-906-6165 Fax

Approval Form / Project Checklist

Project Number: 1212042

Report Date: January 11, 2013

Project/Survey Name: Jewett White Lead - 1212042

Addressee: Weston Solutions Inc.

CC: Mark Gallo

Smita Sumbaly

1090 King Georges Post Road, Suite 201

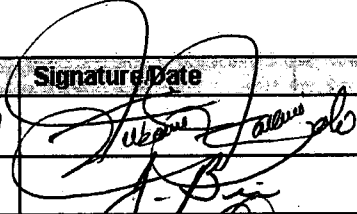
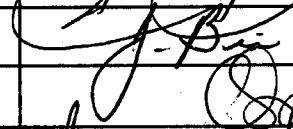
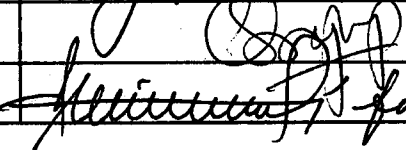
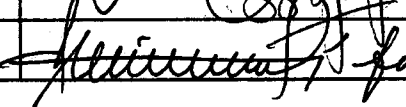
Edison, NJ 08837

PARTIAL

Comments

* Partial Draft generated with WD 1301009 on 1/11/13

Approvals

	NAME	Signature/Date
OSCAR Report Coord.	Zusor F. ALI	 1/11/13
Special Projects Coord.	John Birri	 1/13/13
Laboratory QAO	Sunny Cherukara	 1/12/13
Laboratory Branch Chief	John Bourbon	 1/11/13

491418





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 2 Laboratory
2890 Woodbridge Avenue
Edison, New Jersey 08837
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732-906-6165 Fax

Approval Form / Project Checklist

Project Number: 1212042

Project/Survey Name: Jewett White Lead - 1212042

REVIEW

Project File Information

File Core Data			Area Specific Raw Data		
1	Project Report - 1 Copy	✓	13	Sanitary Chemistry	✓
2	Project Narrative - 1 Copy	✓			
3	Analytical Request Form (ARF)	✓			
4	External Chain of Custody Forms	✓			
5	Shipping Forms/Air Bills	N/A			
6	Sample Acceptance Checklist(s)	✓			
7	Internal Chain of Custody Form(s)	N/A			
8	OSCAR Sample Tracking Log	✓			
9	Project Correspondence	✓			
11	Organics		14	Microbiology	
	VOAs				
	NVOAs				
	PCBs				
	Pesticides				
	Haloacetic Acids				
	MEE				
12	Metals		15	Biology	
	ICP-AES				
	ICP-MS				
	CVAAS - Mercury				
	DMA - Mercury				

US EPA Region 2
Analysis Request Form

Revised

CLB Case/Project #:		Date Received by RSCC:		Date Cancelled:	
Site Name: Jewett White Lead Site		CERCLIS ID: NYD980331545		Sampling Dates:	
City/Town: Staten Island		Op Unit: 00		Start: 10/2/2012 - 12/10/12	
State: NY		Site Spill ID: A218		Finish: 11/3/2012 - 1/3/13	
		Action Code: Removal - RV		Arrival Time:	
EPA Project Manager:		Analytical Services Requestor:		Proposed Shipping Dates:	
First Name: Mark		First Name: Smita		Start: 10/2/2012 - 11/30/12	
Last Name: Gallo		Last Name: Sumbaly		Finish: 11/3/2012 - 1/3/13	
		Phone #: 7325854410		Saturday Delivery? <input type="checkbox"/> Yes	
		Organization: RST 2			
EPA Approved QAPP? <input type="checkbox"/> Yes		Oversight/Spill Sampling? <input type="checkbox"/> Yes		Labs Used:	
Date of QAPP Approval: not approved		(e.g. PRP/Fed Facility)		(PRP/FF)	
E-mail for Lab Assignments:		E-mail for Data:		Address for Hard Copy:	
S.Sumbaly@westonsolutions.com		S.Sumbaly@westonsolutions.com		Weston Solutions, Inc.	
Brittney.Kelly@westonsolutions.com		Brittney.Kelly@westonsolutions.com		1090 King Georges Post Road	
				Edison, New Jersey 08837	
Contaminants of Concern (if known): Lead					
Known Hazardous Waste Constituents:					
Special Requests & Reporting Requirements (attach if more space required):					
24-48 hours turnaround time require for the air samples preliminary data and 48 hours TAT for the soil samples preliminary data					
14 days TAT for validated data package require.					
approximately 10 soils samples will be submitted per day.					
<p style="text-align: right;">J. Bui 11/27/12</p> <p style="text-align: right; font-size: 2em; transform: rotate(-15deg);">FILE</p>					

** Shaded area for RSCC use only **

U.S. EPA Region 2 Analysis Request Form

[illegible]

** See instruction sheet for explanation of Turnaround Time for validated data.

Accepted by:		Date Accepted:	
<p align="center">* Shaded area for RSCC use only *</p>			

US EPA Region 2
Analysis Request Form

CLP Case/Project #:		Date Received by RSCC:		Date Cancelled:	
Site Name: Jowett White Lead Site		CERCLIS ID: NYD980531543		Sampling Dates:	
City/Town: Staten Island		Op. Unit: 00 Site Spill ID: A218		Start: 10/3/2012 10/13/12	
State: NY		Action Code: Removal - RV		Finish: 11/3/2012 11/30/12	
EPA Project Manager:		Analytical Services Requestor:		Arrival Time:	
First Name: Mark 905-420-1765		First Name: Smita		0800-1200Hrs	
Last Name: Gallo		Last Name: Sumbaly		1200-1600Hrs	
		Phone #: 7325854410		After 1600 Hrs	
		Organization: RST 2		Proposed Shipping Dates:	
EPA Approved QAPP?: <input type="checkbox"/> Yes				Start: 10/3/2012 10/31/12	
Date of QAPP Approval: not approved				Finish: 11/3/2012 11/30/12	
		Oversight/Spill Sampling?: <input type="checkbox"/> Yes		Saturday Delivery? <input type="checkbox"/> Yes	
		(e.g. PRP/Fed Facility)		Labs Used:	
E-mail for Lab Assignments:		E-mail for Data:		(PRP/FF)	
S.Sumbaly@westonsolutions.com		S.Sumbaly@westonsolutions.com			
Brittney.Kelly@westonsolutions.com		Brittney.Kelly@westonsolutions.com		Address for Hard Copy:	
		GALLO.MARK@EPA.GOV		Weston Solutions, Inc.	
				1090 King Georges Post Road	
				Edison, New Jersey 08837	
Contaminants of Concern (if known):		Lead			
Known Hazardous Waste Constituents:					
Special Requests & Reporting Requirements (attach if more space required):					
24-48 hours turnaround time require for the air samples preliminary data and 24 hours TAT for the soil samples preliminary data					
14 days TAT for validated data package require.					
approximately 10 soils samples will be submitted per day.					
<div style="display: flex; justify-content: space-between; align-items: center;"> <div> <p>→ MAXIMUM</p> </div> <div> <p>JP 10/3/12</p> </div> <div> <p>FILE</p> </div> </div>					
** Shaded area for RSCC use only **					

U.S. EPA Region 2 Analysis Request Form

[illegible]

** See instruction sheet for explanation of Turnaround Time for validated data.

Accepted by:		Date Accepted:	
** Shaded area for RSCC use only **			

USEPA Contract No. EP-W-06-072

Hand delivered: 1/10/13

CHAIN OF CUSTODY RECORD

Jewett White Lead

Contact Name: Sasha Mallon

Contact Phone: 732-570-4997

No: 2-011013-090113-0024

Lab: DESA

Lab Contact: John Birri

732-906-6886

1/10/13
20
+2+2

Lab #	Sample #	Location	Collected	Matrix	Sample Time	Numb Cont	Container	Analyses	Preservative	MS/MSD
	S-027-8490-001	S-027	1/10/2013	Soil	10:03	1	4 oz glass jar	Lead 1301009-01	4 C	Y
	S-027-8490-002	S-027	1/10/2013	Soil	10:03	1	4 oz glass jar	Lead -02	4 C	N
	S-028-4248-001	S-028	1/10/2013	Soil	10:09	1	4 oz glass jar	Lead -03	4 C	N
	S-029-1824-001	S-029	1/10/2013	Soil	10:13	1	4 oz glass jar	Lead -04	4 C	N
	S-030-6066-001	S-030	1/10/2013	Soil	12:10	1	4 oz glass jar	Lead -05	4 C	N
	S-031-3642-001	S-031	1/10/2013	Soil	12:16	1	4 oz glass jar	Lead -06	4 C	N
2A 1/10/13										
A.M. 1/10/13										

Special Instructions:

 SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
all samples	A. Mallon	1/10/13								1/10/13	15:40

Temp = 6.1°C SW ICE 20 1/10/13



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Sample Acceptance Checklist

Work Order: 1301009

Printed: 1/10/2013 4:13:33PM

Project: Jewett White Lead - 1212042
Project Number: 1212042

Client: Weston Solutions Inc.
Project Due Date: 01/12/2013

Report To:

Weston Solutions Inc.
Smita Sumbaly
205 Campus Drive
Edison, NJ 08837
Phone: (732) 585-4410
Fax: NONE

Program: Weston Solutions Inc.
Program Code: Removal - RV ✓
Superfund Account Number: 13 T 02P-303DC6-A218-LA 00

WO Date Due: 01/12/2013 00:00 (2 day TAT) ✓

Tracking No:

Received By: Zubair Ali

Date Received: 01/10/2013 15:40 ✓

Logged In By: Zubair Ali

Date Logged In: 01/10/2013 15:44

Sample Conditions:

Custody Seals (for Crim. Enf. Samples)	No	Proper Preservation and Holding Times?	Yes	Additional Sample comments?	em 4/10/13 No Yes
Adequate Sample Volume	Yes	Labels Water Resistant with Indelible Ink	Yes	Samples hand delivered?	Yes
Appropriate Sample Containers	Yes	Shipping Documents Properly Signed & Dtd?	No	Chilling started for hand delivered samples?	Yes
No Signs of Damage or Contamination	Yes	COC/Sample Labels agree?	Yes		

Red Cooler at Temp of 6 C

Analysis	Analysis Due Date	Hold Time
1301009-01 S-027-8490-001 [Solid] ✓ Lead ICP	7/9/2013 12:00:00AM ✓ 180	180
1301009-02 S-027-8490-002 [Solid] ✓ Lead ICP	7/9/2013 12:00:00AM ✓ 180	180
1301009-03 S-028-4248-001 [Solid] ✓ Lead ICP	7/9/2013 12:00:00AM ✓ 180	180
1301009-04 S-029-1824-001 [Solid] ✓ Lead ICP	7/9/2013 12:00:00AM ✓ 180	180
1301009-05 S-030-6066-001 [Solid] ✓ Lead ICP	7/9/2013 12:00:00AM ✓ 180	180



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Sample Acceptance Checklist

Work Order: 1301009

Printed: 1/10/2013 4:13:33PM

Project: Jewett White Lead - 1212042

Project Number: 1212042

Client: Weston Solutions Inc.

Project Due Date: 01/12/2013

Analysis	Analysis Due Date	Hold Time
1301009-06 S-031-3642-001 [Solid] <input checked="" type="checkbox"/> Sampled <input checked="" type="checkbox"/> 01/10/2013 12:16 Eastern [1 Container]		
Lead ICP	7/9/2013 12:00:00AM	180

Erin A. McElroy
Reviewed By

1/10/13
Date

01/10/2013

**EPA REGION 2 LABORATORY
OFFICIAL SAMPLE CONTROL AND REPOSITORY**

Dates	Project Info	Work Order	Report Recipient
Date/Time Received: 01/10/2013 15:40	Project Name: Jewett White Lead - 1212042	Work Order #: 1301009 # of Samples: 6	
Report Date: 01/10/2013 15:48	SDG Number/Project Number: P-1212042/1212042 Project Leader Smita Sumbaly		
	Decision Unit: Y206RV	# of Analyses: 6	

Samples/Work Distribution/Sample Type

EPA

Metals Lead ICP(6 Solid)

Customer Service Survey Results

Category	Ranking					
Planning:	<input type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4	<input type="radio"/> 5	<input type="radio"/> NA
Timeliness:	<input type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4	<input type="radio"/> 5	<input type="radio"/> NA
Quality:	<input type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4	<input type="radio"/> 5	<input type="radio"/> NA
Communication:	<input type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4	<input type="radio"/> 5	<input type="radio"/> NA

Follow-Up? ☐ Yes ☒ No

Comments:

--



Fw: Jewett samples

John Birri

to:

oscar.region2

01/10/2013 01:41 PM

Hide Details

From: John Birri/R2/USEPA/US

To: oscar.region2@epa.gov

FYI

John Birri
US EPA
Region 2 Laboratory
2890 Woodbridge Avenue
Edison, NJ 08837
(732) 906-6886
FAX: (732) 906-6165

— Forwarded by John Birri/R2/USEPA/US on 01/10/2013 01:41 PM —

From: Mark Gallo/R2/USEPA/US
To: John Birri/R2/USEPA/US
Date: 01/10/2013 01:26 PM
Subject: Jewett samples


John... Looks like well be submitting abt 5-6 samples tonight

Mark Gallo
(732) 906-6871
msg sent via blackberry


**Jewett White Lead**


John Bourbon to: Ness Tirol, Renee Lettieri, William Rickert
Gregory Santacroce, Ness Tirol, John Birri, John Birri, Ness Tirol,
Cc: Yelena Khusid, John Johnson, Vyomesh Parekh, Erica McNally,
Zubair Ali, Sumy Cherukara, Michelle Schwartz, Lisa Brassell

01/07/2013 05:19 PM

	John Bourbon	Jewett White Lead

Mark Gallo just called. Sampling will resume on Tuesday, 1/8/13. They are expecting to collect 4 to 8 samples for delivery on Tuesday evening, 5:30 pm, and then again on Wednesday for delivery on Wednesday evening, 5:30 pm. 48 hour TAT for each work order/delivery. There will likely be no sampling on Thursday and Friday but Mark will confirm on Thursday.

 OFFICIAL CUSTODY SEAL <small>02P-1155</small>	Name <u>A. Mallon</u>
	Date <u>1/10/13</u>
	W.O. # _____

 OFFICIAL CUSTODY SEAL <small>02P-1155</small>	Name <u>A. Mallon</u>
	Date <u>1/10/13</u>
	W.O. # _____

Jewett white Lead

1/10/13 *sd*



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

**Region 2 Laboratory
2890 Woodbridge Avenue
Edison, New Jersey 08837
732-906-6886 Phone
732-906-6165 Fax**

PARTIAL

January 11, 2013

Smita Sumbaly
Weston Solutions Inc.
205 Campus Drive
Edison, NJ 08837

RE: Jewett White Lead - 1212042

Enclosed are the results of analyses for samples received by the laboratory on 01/10/2013. The signature below reflects the laboratory's approval of the reported results. If you have any questions concerning this report, please refer to Project Number 1212042 and contact John Birri by phone at 732-906-6886, or via Email at birri.john@epa.gov.

Sincerely,

John R. Bourbon
Chief, DESA/LB

FILE

DRAFT



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Jewett White Lead - 1212042

Project Number: 1212042

Project Narrative:

The National Environmental Laboratory Accreditation Conference Institute (NELAP) is a voluntary environmental laboratory accreditation association of State and Federal agencies. NELAP established and promoted a National Environmental Laboratory Accreditation Program (NELAP) that provides a uniform set of standards for the generation of environmental data that are of known and defensible quality. The EPA Region 2 Laboratory is NELAP accredited. The Laboratory tests that are accredited have met all the requirements established under the NELAP Standards.

Condition Comments

None

Comment(s):

None

Data Qualifier(s):

- U- The analyte was not detected at or above the Reporting Limit.
- J- The identification of the analyte is acceptable; the reported value is an estimate.
- K- The identification of the analyte is acceptable; the reported value may be biased high.
- L- The identification of the analyte is acceptable; the reported value may be biased low.
- NJ- There is presumptive evidence that the analyte is present; the analyte is reported as a tentative identification. The reported value is an estimate.

Reporting Limit(s):

The Laboratory was able to achieve the appropriate limits for each analyte requested.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Jewett White Lead - 1212042

Project Number: 1212042

SUMMARY REPORT FOR SAMPLES

Field ID	Laboratory ID	Matrix	Date Sampled	Date Received
S-027-8490-001	1301009-01	Solid	01/10/2013 10:03 ✓	01/10/2013 15:40
S-027-8490-002	1301009-02	Solid	01/10/2013 10:03 ✓	01/10/2013 15:40
S-028-4248-001	1301009-03	Solid	01/10/2013 10:09 ✓	01/10/2013 15:40
S-029-1824-001	1301009-04	Solid	01/10/2013 10:13 ✓	01/10/2013 15:40
S-030-6066-001	1301009-05	Solid	01/10/2013 12:10 ✓	01/10/2013 15:40
S-031-3642-001	1301009-06	Solid	01/10/2013 12:16 ✓	01/10/2013 15:40

20
11/1/13

DRAFT REPORT

Reported: 1/11/2013

Page 2 of 5



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Jewett White Lead - 1212042

Project Number: 1212042

SUMMARY REPORT FOR METHODS

Analysis	Method	Certification	Matrix
Lead	EPA 200.7 / SOP C-109 Rev3.2	NELAP	Solid



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Jewett White Lead - 1212042

Project Number: 1212042

Analyte	Result	Qualifier	Reporting Limit	Units	Batch
Field ID: DRAFT: S-027-8490-001					
Sample ID: 1301009-01					
Metals ICP					
Lead	300		0.76	mg/kg dry	B301045
Field ID: DRAFT: S-027-8490-002					
Sample ID: 1301009-02					
Metals ICP					
Lead	290		0.71	mg/kg dry	B301045
Field ID: DRAFT: S-028-4248-001					
Sample ID: 1301009-03					
Metals ICP					
Lead	140		0.69	mg/kg dry	B301045
Field ID: DRAFT: S-029-1824-001					
Sample ID: 1301009-04					
Metals ICP					
Lead	9.8		0.65	mg/kg dry	B301045
Field ID: DRAFT: S-030-6066-001					
Sample ID: 1301009-05					
Metals ICP					
Lead	8.0		0.66	mg/kg dry	B301045
Field ID: DRAFT: S-031-3642-001					
Sample ID: 1301009-06					
Metals ICP					
Lead	460		0.66	mg/kg dry	B301045

DRAFT REPORT

Reported: 1/11/2013

Page 4 of 5



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Jewett White Lead - 1212042

Project Number: 1212042

DRAFT: Metals ICP - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B301045									
Blank (B301045-BLK1)									
Lead	— U	0.080	mg/kg wet						
Matrix Spike (B301045-MS1)									
Source: 1301009-01									
Lead	315	0.74	mg/kg dry	18.54	297	96.4	75-125		
Matrix Spike Dup (B301045-MSD1)									
Source: 1301009-01									
Lead	330	3.7	mg/kg dry	18.54	297	177	75-125	4.64	10
Reference (B301045-SRM1)									
Lead	72.3	0.75	mg/kg wet	76.90		94.0	81.3-118.7		
Reference (B301045-SRM2)									
Lead	70.8	0.73	mg/kg wet	76.90		92.1	81.3-118.7		

DRAFT REPORT

Reported: 1/11/2013

Page 5 of 5



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Weston Solutions Inc.
205 Campus Drive
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Enclosed are the results of analyses for samples received by the laboratory on 01/10/2013. The signature below reflects the laboratory's approval of the reported results. If you have any questions concerning this report, please refer to Project Number 1212042 and contact John Birri by phone at 732-906-6886, or via Email at birri.john@epa.gov.

Sincerely,

A handwritten signature in cursive script, appearing to read "John R. Bourbon", is written over a horizontal line.

John R. Bourbon
Chief, DESA/LB



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Jewett White Lead - 1212042

Project Number: 1212042

Project Narrative:

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Condition Comments

None

Comment(s):

None

Data Qualifier(s):

- U- The analyte was not detected at or above the Reporting Limit.
- J- The identification of the analyte is acceptable; the reported value is an estimate.
- K- The identification of the analyte is acceptable; the reported value may be biased high.
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S-028-4248-001	1301009-03	Solid	01/10/2013 10:09	01/10/2013 15:40
S-029-1824-001	1301009-04	Solid	01/10/2013 10:13	01/10/2013 15:40
S-030-6066-001	1301009-05	Solid	01/10/2013 12:10	01/10/2013 15:40
S-031-3642-001	1301009-06	Solid	01/10/2013 12:16	01/10/2013 15:40



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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Project: Jewett White Lead - 1212042

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Jewett White Lead - 1212042

Project Number: 1212042

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: S-027-8490-001				Sample ID: 1301009-01
Metals ICP				
Lead	300		0.76	mg/kg dry
Field ID: S-027-8490-002				Sample ID: 1301009-02
Metals ICP				
Lead	290		0.71	mg/kg dry
Field ID: S-028-4248-001				Sample ID: 1301009-03
Metals ICP				
Lead	140		0.69	mg/kg dry
Field ID: S-029-1824-001				Sample ID: 1301009-04
Metals ICP				
Lead	9.8		0.65	mg/kg dry
Field ID: S-030-6066-001				Sample ID: 1301009-05
Metals ICP				
Lead	8.0		0.66	mg/kg dry
Field ID: S-031-3642-001				Sample ID: 1301009-06
Metals ICP				
Lead	460		0.66	mg/kg dry



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Jewett White Lead - 1212042

Project Number: 1212042



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PARTIAL

Approval Form / Project Checklist

Project Number: 1212042

Report Date: January 15, 2013

Project/Survey Name: Jewett White Lead - 1212042

Addressee: Weston Solutions Inc.

CC: Mark Gallo

Smita Sumbaly

1090 King Georges Post Road, Suite 201

Edison, NJ 08837

Comments

Partial for work order 1301011 - J.B.

Approvals

	NAME:	Signature/Date
OSCAR Report Coord.	Michelle L. Schwartz	<i>Michelle L. Schwartz</i> 1/15/2013
Special Projects Coord.	John Birri	<i>J. Birri</i> 1/15/13
Laboratory QAO	Sumy Cherukara	<i>Sumy Cherukara</i> 1/17/13
Laboratory Branch Chief	John Bourbon	<i>John Bourbon</i> for JNB 1/15/13



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Project Number: 1212042

Project/Survey Name: Jewett White Lead - 1212042

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1	Project Report - 1 Copy	✓	13	Sanitary Chemistry	
2	Project Narrative - 1 Copy	✓			
3	Analytical Request Form (ARF)	N/A			
4	External Chain of Custody Forms	✓			
5	Shipping Forms/Air Bills	N/A			
6	Sample Acceptance Checklist(s)	✓			
7	Internal Chain of Custody Form(s)	N/A			
8	OSCAR Sample Tracking Log	✓			
9	Project Correspondence	N/A			
11	Organics		14	Microbiology	
	VOAs				
	NVOAs				
	PCBs				
	Pesticides				
	Haloacetic Acids				
	MEE				
12	Metals		15	Biology	
	ICP-AES	✓			
	ICP-MS				
	CVAAS - Mercury				
	DMA - Mercury				

Hand delivered: 1/11/13

CHAIN OF CUSTODY RECORD

Jewett White Lead

Contact Name: Sasha Mallon

Contact Phone: 732-570-4997

No: 2-011113-155246-0027

DESA

Lab Contact: John Birri

732-906-8886

Lab #	Sample #	Location	Collected	Matrix	Sample Time	Numb Cont	Container	Analyses	Preservative	MS/MSD
-01	S-032-4854-001	S-032	1/11/2013	Soil	09:16	1	4 oz glass jar	Lead	4 C	Y
-02	S-032-4854-002	S-032	1/11/2013	Soil	09:16	1	4 oz glass jar	Lead	4 C	N
-03	S-033-1824-001	S-033	1/11/2013	Soil	13:51	1	4 oz glass jar	Lead	4 C	N
-04	S-034-0612-001	S-034	1/11/2013	Soil	14:42	1	4 oz glass jar	Lead	4 C	N
<p><i>A.M.</i> <i>1/11/13</i></p>										

Special Instructions: Please note that sample S-033-1824-001 screened greater than 30K ppm Pb and sample S-034-0612-001 screened between 2K - 5K ppm Pb.

SAMPLES TRANSFERRED FROM

CHAIN OF CUSTODY #[illegible]

Hand delivered on ice 5.1°C CES 1/14/13



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Sample Acceptance Checklist

Work Order: 1301011

Printed: 1/14/2013 8:41:27AM

Project: Jewett White Lead - 1212042
Project Number: 1212042

Client: Weston Solutions Inc.
Project Due Date: 01/16/2013

Report To:

Weston Solutions Inc.
Smita Sumbaly
205 Campus Drive
Edison, NJ 08837
Phone: (732) 585-4410
Fax: NONE

Program: Weston Solutions Inc.
Program Code: Removal - RV
Superfund Account Number: 13 T 02P-303DC6-A218-LA 00 ✓

WO Date Due: 01/16/2013 00:00 (2 day TAT)

Tracking No:

Received By: Michelle Schwartz

Date Received: 01/14/2013 08:20 ✓

Logged In By: Michelle Schwartz

Date Logged In: 01/14/2013 08:22

Sample Conditions:

Custody Seals (for Crim. Enf. Sample)	No	Proper Preservation and Holding Times?	Yes	Additional Sample comments?	Yes
Adequate Sample Volume	Yes	Labels Water Resistant with Indelible Ink	Yes	Samples hand delivered?	Yes
Appropriate Sample Containers	Yes	Shipping Documents Properly Signed & Dtd?	No	Chilling started for hand delivered samples?	Yes
No Signs of Damage or Contaminatio	Yes	COC/Sample Labels agree?	Yes		

Cooler at Temp of 5 C

Analysis Analysis Due Date Hold Time

1301011-01 S-032-4854-001 [Solid] Sampled 01/11/2013 09:16 Eastern [1 Container] ✓

E-Lead ICP 7/10/2013 12:00:00AM 180

1301011-02 S-032-4854-002 [Solid] Sampled 01/11/2013 09:16 Eastern [1 Container] ✓

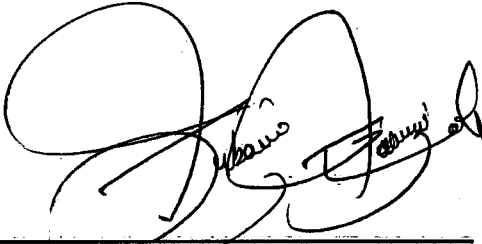
E-Lead ICP 7/10/2013 12:00:00AM 180

1301011-03 S-033-1824-001 [Solid] Sampled 01/11/2013 13:51 Eastern [1 Container] ✓

E-Lead ICP 7/10/2013 12:00:00AM 180

1301011-04 S-034-0612-001 [Solid] Sampled 01/11/2013 14:42 Eastern [1 Container] ✓

E-Lead ICP 7/10/2013 12:00:00AM 180


Reviewed By

Date

1/14/13

01/14/2013

**EPA REGION 2 LABORATORY
OFFICIAL SAMPLE CONTROL AND REPOSITORY**

Dates	Project Info	Work Order	Report Recipient
Date/Time Received: 01/14/2013 08:20	Project Name: Jewett White Lead - 1212042	Work Order #: 1301011 # of Samples: 4	
Report Date: 01/14/2013 08:39	SDG Number/Project Number: P-1212042/1212042 Project Leader Smita Sumbaly		
	Decision Unit: Y206RV	# of Analyses: 4	

Samples/Work Distribution/Sample Type

ESAT

Metals(E) E-Lead ICP(4 Solid)

Customer Service Survey Results

Category	Ranking
Planning:	<input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 <input type="radio"/> 5 <input type="radio"/> NA
Timeliness:	<input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 <input type="radio"/> 5 <input type="radio"/> NA
Quality:	<input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 <input type="radio"/> 5 <input type="radio"/> NA
Communication:	<input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 <input type="radio"/> 5 <input type="radio"/> NA

Follow-Up? ☐ Yes ☒ No

Comments:

PARTIAL



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

**Region 2 Laboratory
2890 Woodbridge Avenue
Edison , New Jersey 08837
732-906-6886 Phone
732-906-6165 Fax**

January 15, 2013

Smita Sumbaly
Weston Solutions Inc.
205 Campus Drive
Edison, NJ 08837

RE: Jewett White Lead - 1212042

Enclosed are the results of analyses for samples received by the laboratory on 01/14/2013. The signature below reflects the laboratory's approval of the reported results. If you have any questions concerning this report, please refer to Project Number 1212042 and contact John Birri by phone at 732-906-6886, or via Email at birri.john@epa.gov.

Sincerely,

John R. Bourbon
Chief, DESA/LB

FILE

DRAFT

1A172A9



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Jewett White Lead - 1212042

Project Number: 1212042

Project Narrative:

The National Environmental Laboratory Accreditation Conference Institute (TNI) is a voluntary environmental laboratory accreditation association of State and Federal agencies. TNI established and promoted a National Environmental Laboratory Accreditation Program (NELAP) that provides a uniform set of standards for the generation of environmental data that are of known and defensible quality. The EPA Region 2 Laboratory is NELAP accredited. The Laboratory tests that are accredited have met all the requirements established under the TNI Standards.

Condition Comments

None

Comment(s):

None

Data Qualifier(s):

- U- The analyte was not detected at or above the Reporting Limit.
- J- The identification of the analyte is acceptable; the reported value is an estimate.
- K- The identification of the analyte is acceptable; the reported value may be biased high.
- L- The identification of the analyte is acceptable; the reported value may be biased low.
- NJ- There is presumptive evidence that the analyte is present; the analyte is reported as a tentative identification. The reported value is an estimate.

Reporting Limit(s):

The Laboratory was able to achieve the appropriate limits for each analyte requested.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Jewett White Lead - 1212042

Project Number: 1212042

SUMMARY REPORT FOR SAMPLES

Field ID	Laboratory ID	Matrix	Date Sampled	Date Received
S-032-4854-001	1301011-01	Solid	01/11/2013 09:16	01/14/2013 08:20
S-032-4854-002	1301011-02	Solid	01/11/2013 09:16	01/14/2013 08:20
S-033-1824-001	1301011-03	Solid	01/11/2013 13:51	01/14/2013 08:20
S-034-0612-001	1301011-04	Solid	01/11/2013 14:42	01/14/2013 08:20



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Jewett White Lead - 1212042

Project Number: 1212042

SUMMARY REPORT FOR METHODS

Analysis	Method	Certification	Matrix
Lead	EPA 200.7 / SOP C-109 Rev3.2	NELAP	Solid



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Jewett White Lead - 1212042

Project Number: 1212042

Analyte	Result	Qualifier	Reporting Limit	Units	Batch
Field ID: DRAFT: S-032-4854-001			Sample ID: 1301011-01		
Metals ICP					
Lead	4.5		0.77	mg/kg dry	B301053
Field ID: DRAFT: S-032-4854-002			Sample ID: 1301011-02		
Metals ICP					
Lead	4.4		0.78	mg/kg dry	B301053
Field ID: DRAFT: S-033-1824-001			Sample ID: 1301011-03		
Metals ICP					
Lead	32000		3.8	mg/kg dry	B301053
Field ID: DRAFT: S-034-0612-001			Sample ID: 1301011-04		
Metals ICP					
Lead	1900		0.78	mg/kg dry	B301053



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Jewett White Lead - 1212042

Project Number: 1212042

DRAFT: Metals ICP - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B301053									
Blank (B301053-BLK1)									
Lead	--- U	0.79	mg/kg wet						
Matrix Spike (B301053-MS1) Source: 1301011-01									
Lead	22.5	0.76	mg/kg dry	18.94	4.50	95.0	75-125		
Matrix Spike Dup (B301053-MSD1) Source: 1301011-01									
Lead	22.7	3.8	mg/kg dry	18.94	4.50	95.9	75-125	0.797	10
Reference (B301053-SRM1)									
Lead	70.8	0.80	mg/kg wet	76.90		92.1	81.3-118.7		
Reference (B301053-SRM2)									
Lead	69.6	0.79	mg/kg wet	76.90		90.6	81.3-118.7		

PARTIAL



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

**Region 2 Laboratory
2890 Woodbridge Avenue
Edison , New Jersey 08837
732-906-6886 Phone
732-906-6165 Fax**

January 15, 2013

Smita Sumbaly
Weston Solutions Inc.
205 Campus Drive
Edison, NJ 08837

RE: Jewett White Lead - 1212042

Enclosed are the results of analyses for samples received by the laboratory on 01/14/2013. The signature below reflects the laboratory's approval of the reported results. If you have any questions concerning this report, please refer to Project Number 1212042 and contact John Birri by phone at 732-906-6886, or via Email at birri.john@epa.gov.

Sincerely,

John R. Bourbon
Chief, DESA/LB



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Jewett White Lead - 1212042

Project Number: 1212042

Project Narrative:

The National Environmental Laboratory Accreditation Conference Institute (NELAP) is a voluntary environmental laboratory accreditation association of State and Federal agencies. NELAP established and promoted a National Environmental Laboratory Accreditation Program (NELAP) that provides a uniform set of standards for the generation of environmental data that are of known and defensible quality. The EPA Region 2 Laboratory is NELAP accredited. The Laboratory tests that are accredited have met all the requirements established under the NELAP Standards.

Condition Comments

None

Comment(s):

None

Data Qualifier(s):

- U- The analyte was not detected at or above the Reporting Limit.
- J- The identification of the analyte is acceptable; the reported value is an estimate.
- K- The identification of the analyte is acceptable; the reported value may be biased high.
- L- The identification of the analyte is acceptable; the reported value may be biased low.
- NJ- There is presumptive evidence that the analyte is present; the analyte is reported as a tentative identification. The reported value is an estimate.

Reporting Limit(s):

The Laboratory was able to achieve the appropriate limits for each analyte requested.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Jewett White Lead - 1212042

Project Number: 1212042

SUMMARY REPORT FOR SAMPLES

Field ID	Laboratory ID	Matrix	Date Sampled	Date Received
S-032-4854-001	1301011-01	Solid	01/11/2013 09:16	01/14/2013 08:20
S-032-4854-002	1301011-02	Solid	01/11/2013 09:16	01/14/2013 08:20
S-033-1824-001	1301011-03	Solid	01/11/2013 13:51	01/14/2013 08:20
S-034-0612-001	1301011-04	Solid	01/11/2013 14:42	01/14/2013 08:20



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Jewett White Lead - 1212042

Project Number: 1212042

SUMMARY REPORT FOR METHODS

Analysis	Method	Certification	Matrix
Lead	EPA 200.7 / SOP C-109 Rev3.2	NELAP	Solid



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Jewett White Lead - 1212042

Project Number: 1212042

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: S-032-4854-001				
Sample ID: 1301011-01				
Metals ICP				
Lead	4.5		0.77	mg/kg dry
Field ID: S-032-4854-002				
Sample ID: 1301011-02				
Metals ICP				
Lead	4.4		0.78	mg/kg dry
Field ID: S-033-1824-001				
Sample ID: 1301011-03				
Metals ICP				
Lead	32000		3.8	mg/kg dry
Field ID: S-034-0612-001				
Sample ID: 1301011-04				
Metals ICP				
Lead	1900		0.78	mg/kg dry



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 2 Laboratory
2890 Woodbridge Avenue
Edison, New Jersey 08837
732-906-6886 Phone
732-906-6165 Fax

Approval Form / Project Checklist

Project Number: 1212042

Report Date: January 16, 2013

Project/Survey Name: Jewett White Lead - 1212042

Addressee: Weston Solutions Inc.
Smita Sumbaly
1090 King Georges Post Road, Suite 201
Edison, NJ 08837

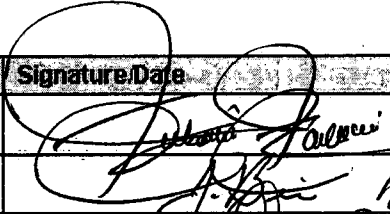


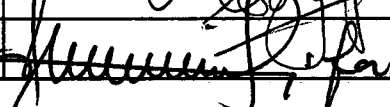
CC: Mark Gallo

PARTIAL

Comments

* Partial Draft generated with WO # 1301016 on 1/16/13

Approvals

	NAME:	Signature/Date
OSCAR Report Coord.	ZUENR F. ALI	 1/16/13
Special Projects Coord.	John Birri	 1/17/13
Laboratory QAO	Sunny Cherukara	 1/17/13
Laboratory Branch Chief	John Bourbon	 1/16/13



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 2 Laboratory
2890 Woodbridge Avenue
Edison, New Jersey 08837
732-906-6886 Phone
732-906-6165 Fax

Approval Form / Project Checklist

Project Number: 1212042

Project/Survey Name: Jewett White Lead - 1212042

Project File Information

File Core Data					
1	Project Report - 1 Copy	✓	13	Sanitary Chemistry	✓
2	Project Narrative - 1 Copy	✓			
3	Analytical Request Form (ARF)	✓			
4	External Chain of Custody Forms	✓			
5	Shipping Forms/Air Bills	N/A			
6	Sample Acceptance Checklist(s)	✓			
7	Internal Chain of Custody Form(s)	N/A			
8	OSCAR Sample Tracking Log	✓			
9	Project Correspondence	✓			
Area Specific Raw Data					
11	Organics		14	Microbiology	
	VOAs				
	NVOAs				
	PCBs				
	Pesticides				
	Haloacetic Acids				
	MEE				
12	Metals		15	Biology	
	ICP-AES	✓			
	ICP-MS				
	CVAAS - Mercury				
	DMA - Mercury				

Jewett White Lead

Contact Name: Sasha Mallon

Contact Phone: 732-570-4997

No: 2-011513-130143-0028

DESA

Lab Contact: John Birri

732-906-6886

↓

Special Instructions: Please note that sample S-037-2430-001 had a screening of greater than 140K ppm Pb.

[illegible]

Cooler @ 17.6°C hand-delivery — on ice



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Sample Acceptance Checklist

Work Order: 1301016

Printed: 1/15/2013 2:08:05PM

Project: Jewett White Lead - 1212042
Project Number: 1212042

Client: Weston Solutions Inc.
Project Due Date: 01/16/2013

Report To:

Weston Solutions Inc.
Smita Sumbaly
205 Campus Drive
Edison, NJ 08837
Phone: (732) 585-4410
Fax: NONE

Program: Weston Solutions Inc.
Program Code: Removal - RV
Superfund Account Number: 13 T 02P-303DC6-A218-LA 00

WO Date Due: 01/16/2013 00:00 (1 day TAT)

Tracking No:

Received By: Michelle Schwartz

Date Received: 01/15/2013 13:50

Logged In By: Michelle Schwartz

Date Logged In: 01/15/2013 13:54

Sample Conditions:

Custody Seals (for Crim. Enf. Sample)	No	Proper Preservation and Holding Times?	Yes	Additional Sample comments?	Yes
Adequate Sample Volume	Yes	Labels Water Resistant with Indelible Ink	Yes	Samples hand delivered?	Yes
Appropriate Sample Containers	Yes	Shipping Documents Properly Signed & Dtd?	No	Chilling started for hand delivered samples?	Yes
No Signs of Damage or Contamination	Yes	COC/Sample Labels agree?	Yes		

Cooler at Temp of 18 C

Analysis	Analysis Due Date	Hold Time
----------	-------------------	-----------

1301016-01 S-035-8490-001 [Solid] Sampled 01/15/2013 11:15 Eastern [1 Container]

E-Lead ICP 7/14/2013 12:00:00AM 180

1301016-02 S-035-8490-002 [Solid] Sampled 01/15/2013 11:15 Eastern [1 Container]

E-Lead ICP 7/14/2013 12:00:00AM 180

1301016-03 S-036-8490-001 [Solid] Sampled 01/15/2013 11:25 Eastern [1 Container]

E-Lead ICP 7/14/2013 12:00:00AM 180

1301016-04 S-037-2430-001 [Solid] Sampled 01/15/2013 11:30 Eastern [1 Container]

E-Lead ICP 7/14/2013 12:00:00AM 180

1301016-05 S-038-0612-001 [Solid] Sampled 01/15/2013 12:20 Eastern [1 Container]

E-Lead ICP 7/14/2013 12:00:00AM 180

Reviewed By:  Date: 1/15/13

01/15/2013

**EPA REGION 2 LABORATORY
OFFICIAL SAMPLE CONTROL AND REPOSITORY**

Dates	Project Info	Work Order	Report Recipient
Date/Time Received: 01/15/2013 13:54	Project Name: Jewett White Lead - 1212042	Work Order #: 1301016 # of Samples: 5	
Report Date: 01/15/2013 14:01	SDG Number/Project Number: P-1212042/1212042 Project Leader Smita Sumbaly		
	Decision Unit: Y206RV	# of Analyses: 5	

Samples/Work Distribution/Sample Type

ESAT

Metals(E) E-Lead ICP(5 Solid)

Customer Service Survey Results

Category	Ranking					
Planning:	<input type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4	<input type="radio"/> 5	<input type="radio"/> NA
Timeliness:	<input type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4	<input type="radio"/> 5	<input type="radio"/> NA
Quality:	<input type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4	<input type="radio"/> 5	<input type="radio"/> NA
Communication:	<input type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4	<input type="radio"/> 5	<input type="radio"/> NA

Follow-Up? ☐ Yes ☒ No

Comments:

--



Jewett White Lead - 1212042

Ness Tirol to: Region2 OSCAR

Cc: Lisa Brassell, John Bourbon, Mark Gallo, Roland Recto

01/15/2013 11:07 AM

Ness Tirol	Jewett White Lead - 1212042

I was advised by the client, Mark Gallo, that we will be receiving more samples today around 1PM. The TAT for these samples is 24 HR.

For your information.

~~~~~  
Ness Tirol  
Laboratory Branch, MS 230  
Division of Environmental Science and Technology  
U. S. EPA Region 2  
2890 Woodbridge Avenue  
Edison, NJ 08837  
phone (732) 321-4431  
fax (732) 906-6165  
~~~~~



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

**Region 2 Laboratory
2890 Woodbridge Avenue
Edison, New Jersey 08837
732-906-6886 Phone
732-906-6165 Fax**

PARTIAL

January 16, 2013

Smita Sumbaly
Weston Solutions Inc.
205 Campus Drive
Edison, NJ 08837

RE: Jewett White Lead - 1212042

Enclosed are the results of analyses for samples received by the laboratory on 01/15/2013. The signature below reflects the laboratory's approval of the reported results. If you have any questions concerning this report, please refer to Project Number 1212042 and contact John Birri by phone at 732-906-6886, or via Email at birri.john@epa.gov.

Sincerely,

John R. Bourbon
Chief, DESA/LB

FILE

DRAFT



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Jewett White Lead - 1212042

Project Number: 1212042

Project Narrative:

The National Environmental Laboratory Accreditation Conference Institute (NELAP) is a voluntary environmental laboratory accreditation association of State and Federal agencies. NELAP established and promoted a National Environmental Laboratory Accreditation Program (NELAP) that provides a uniform set of standards for the generation of environmental data that are of known and defensible quality. The EPA Region 2 Laboratory is NELAP accredited. The Laboratory tests that are accredited have met all the requirements established under the NELAP Standards.

Condition Comments

None

Comment(s):

None

Data Qualifier(s):

- U- The analyte was not detected at or above the Reporting Limit.
- J- The identification of the analyte is acceptable; the reported value is an estimate.
- K- The identification of the analyte is acceptable; the reported value may be biased high.
- L- The identification of the analyte is acceptable; the reported value may be biased low.
- NJ- There is presumptive evidence that the analyte is present; the analyte is reported as a tentative identification. The reported value is an estimate.

Reporting Limit(s):

The Laboratory was able to achieve the appropriate limits for each analyte requested.

FILE



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Jewett White Lead - 1212042

Project Number: 1212042

SUMMARY REPORT FOR SAMPLES

Field ID	Laboratory ID	Matrix	Date Sampled	Date Received
S-035-8490-001	1301016-01	Solid	01/15/2013 11:15	01/15/2013 13:50
S-035-8490-002	1301016-02	Solid	01/15/2013 11:15	01/15/2013 13:50
S-036-8490-001	1301016-03	Solid	01/15/2013 11:25	01/15/2013 13:50
S-037-2430-001	1301016-04	Solid	01/15/2013 11:30	01/15/2013 13:50
S-038-0612-001	1301016-05	Solid	01/15/2013 12:20	01/15/2013 13:50

DRAFT REPORT

Reported: 1/16/2013

Page 2 of 5



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Jewett White Lead - 1212042

Project Number: 1212042

SUMMARY REPORT FOR METHODS

Analysis	Method	Certification	Matrix
Lead	EPA 200.7 / SOP C-109 Rev3.2	NELAP	Solid



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Jewett White Lead - 1212042

Project Number: 1212042

Analyte	Result	Qualifier	Reporting Limit	Units	Batch
Field ID: DRAFT: S-035-8490-001			Sample ID: 1301016-01		
Metals ICP					
Lead	7.2		0.79	mg/kg dry	B301061
Field ID: DRAFT: S-035-8490-002			Sample ID: 1301016-02		
Metals ICP					
Lead	7.2		0.76	mg/kg dry	B301061
Field ID: DRAFT: S-036-8490-001			Sample ID: 1301016-03		
Metals ICP					
Lead	18		0.76	mg/kg dry	B301061
Field ID: DRAFT: S-037-2430-001			Sample ID: 1301016-04		
Metals ICP					
Lead	95000		25	mg/kg dry	B301061
Field ID: DRAFT: S-038-0612-001			Sample ID: 1301016-05		
Metals ICP					
Lead	64		0.79	mg/kg dry	B301061

DRAFT REPORT

Reported: 1/16/2013

Page 4 of 5



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Jewett White Lead - 1212042

Project Number: 1212042

DRAFT: Metals ICP - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B301061									
Blank (B301061-BLK1)									
Lead	-- U	0.79	mg/kg wet						
Matrix Spike (B301061-MS1)									
Source: 1301016-01									
Lead	25.7	0.79	mg/kg dry	19.63	7.24	94.0	75-125		
Matrix Spike Dup (B301061-MSD1)									
Source: 1301016-01									
Lead	25.1	3.9	mg/kg dry	19.63	7.24	91.0	75-125	2.30	10
Reference (B301061-SRM1)									
Lead	70.6	0.80	mg/kg wet	76.90		91.8	81.3-118.7		
Reference (B301061-SRM2)									
Lead	69.8	0.80	mg/kg wet	76.90		90.7	81.3-118.7		

DRAFT REPORT

Reported: 1/16/2013

Page 5 of 5



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 2 Laboratory
2890 Woodbridge Avenue
Edison, New Jersey 08837
732-906-6886 Phone
732-906-6165 Fax

PARTIAL

January 16, 2013

Smita Sumbaly
Weston Solutions Inc.
205 Campus Drive
Edison, NJ 08837

RE: Jewett White Lead - 1212042

Enclosed are the results of analyses for samples received by the laboratory on 01/15/2013. The signature below reflects the laboratory's approval of the reported results. If you have any questions concerning this report, please refer to Project Number 1212042 and contact John Birri by phone at 732-906-6886, or via Email at birri.john@epa.gov.

Sincerely,

A handwritten signature in black ink, appearing to read "John R. Bourbon", is written over a horizontal line.

John R. Bourbon
Chief, DESA/LB



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Jewett White Lead - 1212042

Project Number: 1212042

Project Narrative:

The National Environmental Laboratory Accreditation Conference Institute (NELAP) is a voluntary environmental laboratory accreditation association of State and Federal agencies. NELAP established and promoted a National Environmental Laboratory Accreditation Program (NELAP) that provides a uniform set of standards for the generation of environmental data that are of known and defensible quality. The EPA Region 2 Laboratory is NELAP accredited. The Laboratory tests that are accredited have met all the requirements established under the NELAP Standards.

Condition Comments

None

Comment(s):

None

Data Qualifier(s):

- U- The analyte was not detected at or above the Reporting Limit.
- J- The identification of the analyte is acceptable; the reported value is an estimate.
- K- The identification of the analyte is acceptable; the reported value may be biased high.
- L- The identification of the analyte is acceptable; the reported value may be biased low.
- NJ- There is presumptive evidence that the analyte is present; the analyte is reported as a tentative identification. The reported value is an estimate.

Reporting Limit(s):

The Laboratory was able to achieve the appropriate limits for each analyte requested.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Jewett White Lead - 1212042

Project Number: 1212042

SUMMARY REPORT FOR SAMPLES

Field ID	Laboratory ID	Matrix	Date Sampled	Date Received
S-035-8490-001	1301016-01	Solid	01/15/2013 11:15	01/15/2013 13:50
S-035-8490-002	1301016-02	Solid	01/15/2013 11:15	01/15/2013 13:50
S-036-8490-001	1301016-03	Solid	01/15/2013 11:25	01/15/2013 13:50
S-037-2430-001	1301016-04	Solid	01/15/2013 11:30	01/15/2013 13:50
S-038-0612-001	1301016-05	Solid	01/15/2013 12:20	01/15/2013 13:50



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Jewett White Lead - 1212042

Project Number: 1212042

SUMMARY REPORT FOR METHODS

Analysis	Method	Certification	Matrix
Lead	EPA 200.7 / SOP C-109 Rev3.2	NELAP	Solid



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Jewett White Lead - 1212042

Project Number: 1212042

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: S-035-8490-001				Sample ID: 1301016-01
Metals ICP				
Lead	7.2		0.79	mg/kg dry
Field ID: S-035-8490-002				Sample ID: 1301016-02
Metals ICP				
Lead	7.2		0.76	mg/kg dry
Field ID: S-036-8490-001				Sample ID: 1301016-03
Metals ICP				
Lead	18		0.76	mg/kg dry
Field ID: S-037-2430-001				Sample ID: 1301016-04
Metals ICP				
Lead	95000		25	mg/kg dry
Field ID: S-038-0612-001				Sample ID: 1301016-05
Metals ICP				
Lead	64		0.79	mg/kg dry



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 2 Laboratory
2890 Woodbridge Avenue
Edison, New Jersey 08837
732-906-6886 Phone
732-906-6165 Fax

Approval Form / Project Checklist

Project Number: 1212042

Report Date: January 22, 2013

Project/Survey Name: Jewett White Lead - 1212042

Addressee: Weston Solutions Inc.

CC: Mark Gallo

Smita Sumbaly

1090 King Georges Post Road, Suite 201

Edison, NJ 08837

PARTIAL

Comments

* Partial Draft - report generated with WDH 1301023 on 1/22/13

Approvals

	NAME:	Signature/Date
OSCAR Report Coord.	ZUBAIR F. ALI	<i>[Signature]</i> 1/22/13
Special Projects Coord.	John Birri	<i>[Signature]</i> 1/22/13
Laboratory QAO	Sunny Cherukara	<i>[Signature]</i> 2/16/13
Laboratory Branch Chief	John Bourbon	Submitted by JTB on 1/18/13 <i>[Signature]</i> for JTB 1/18/13



EPA Region 2 Partial Laboratory Report: Jewett White Lead Site Project

John Bourbon to: Mark Gallo

01/18/2013 10:23 AM

Cc: Gregory Santacroce, John Birri, Sumy Cherukara, Ness Tirol, Jim Ferretti, s.sumbaly

From: John Bourbon/R2/USEPA/US

To: Mark Gallo/R2/USEPA/US@EPA

Cc: Gregory Santacroce/R2/USEPA/US@EPA, John Birri/R2/USEPA/US@EPA, Sumy Cherukara/R2/USEPA/US@EPA, Ness Tirol/R2/USEPA/US@EPA, Jim Ferretti/R2/USEPA/US@EPA, s.sumbaly@westonsolutions.com

I have attached a Laboratory Report (in .pdf format w/project narrative) and the R2EDD Version 3 EQUIS file (in .xls format) for the Jewett White Lead Site Project (Project# 1212042) with Work Order #1301023 accepted by the EPA Region 2 Laboratory. The Laboratory received the samples on 1/17/13. The data have been validated by the Laboratory.



1301023 P-1212042 FINAL 01 18 2013 1018.pdf



R2EDD_V3 1301023 P-1212042 FINAL 18 Jan 13 1018.xls

In addition, we would like you to complete a very short project survey to share your experience as a customer for this project. The survey can be accessed using the link below and will take less than a minute of your time. Thank you.

EPA REGION 2 LAB PROJECT SURVEY - **Please Click Here to Take Survey******

Please let me know if you have any questions.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

**Region 2 Laboratory
2890 Woodbridge Avenue
Edison, New Jersey 08837
732-906-6886 Phone
732-906-6165 Fax**

PARTIAL

January 18, 2013

Smita Sumbaly
Weston Solutions Inc.
205 Campus Drive
Edison, NJ 08837

RE: Jewett White Lead - 1212042

Enclosed are the results of analyses for samples received by the laboratory on 01/17/2013. The signature below reflects the laboratory's approval of the reported results. If you have any questions concerning this report, please refer to Project Number 1212042 and contact John Birri by phone at 732-906-6886, or via Email at birri.john@epa.gov.

Sincerely,

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John R. Bourbon
Chief, DESA/LB



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Jewett White Lead - 1212042

Project Number: 1212042

Project Narrative:

JAN 18 2013

The National Environmental Laboratory Accreditation Conference Institute (NELAP) is a voluntary environmental laboratory accreditation association of State and Federal agencies. NELAP established and promoted a National Environmental Laboratory Accreditation Program (NELAP) that provides a uniform set of standards for the generation of environmental data that are of known and defensible quality. The EPA Region 2 Laboratory is NELAP accredited. The Laboratory tests that are accredited have met all the requirements established under the NELAP Standards.

Condition Comments

None

Comment(s):

None

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- J- The identification of the analyte is acceptable; the reported value is an estimate.
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- NJ- There is presumptive evidence that the analyte is present; the analyte is reported as a tentative identification. The reported value is an estimate.

Reporting Limit(s):

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Jewett White Lead - 1212042

Project Number: 1212042

SUMMARY REPORT FOR SAMPLES

Field ID	Laboratory ID	Matrix	Date Sampled	Date Received
S-039-7884-001	1301023-01	Solid	01/17/2013 08:27	01/17/2013 14:00
S-039-7884-002	1301023-02	Solid	01/17/2013 08:27	01/17/2013 14:00
S-040-1824-001	1301023-03	Solid	01/17/2013 08:25	01/17/2013 14:00



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Jewett White Lead - 1212042

Project Number: 1212042

SUMMARY REPORT FOR METHODS

Analysis	Method	Certification	Matrix
Lead	EPA 200.7 / SOP C-109 Rev3.2	NELAP	Solid



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Jewett White Lead - 1212042

Project Number: 1212042

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: S-039-7884-001				
Sample ID: 1301023-01				
Metals ICP				
Lead	7.1		0.72	mg/kg dry
Field ID: S-039-7884-002				
Sample ID: 1301023-02				
Metals ICP				
Lead	6.8		0.73	mg/kg dry
Field ID: S-040-1824-001				
Sample ID: 1301023-03				
Metals ICP				
Lead	13000		8.3	mg/kg dry

US EPA Region 2
Analysis Request Form

Revised

Site Name: Jewett White Lead Site		CERCLIS ID: NYD980531545		Sampling Dates:	
City/Town: Staten Island		Op Unit: 00		Start: 10/3/2012 - 12/10/12	
State: NY		Site Spill ID: A218		Finish: 11/3/2012 - 1/3/13	
		Action Code: Removal - RV		Arrival Time:	
				<input type="checkbox"/> 0800-1200Hrs	
				<input type="checkbox"/> 1200-1600Hrs	
				<input checked="" type="checkbox"/> After 1600 Hrs	
EPA Project Manager:		Analytical Services Requestor:		Proposed Shipping Dates:	
First Name: Mark		First Name: Smita		Start: 10/3/2012 - 12/10/12	
Last Name: Gallo		Last Name: Sumbaly		Finish: 11/3/2012 1/3/13	
		Phone #: 7325854410			
		Organization: RST 2		Saturday Delivery? <input type="checkbox"/> Yes	
EPA Approved QAPP?: <input type="checkbox"/> Yes		Oversight/Split Sampling?: <input type="checkbox"/> Yes		Labs Used:	
Date of QAPP Approval: not approved		(e.g. PRP/Fed Facility)		(PRP/FF)	
E-mail for Lab Assignments:		E-mail for Data:		Address for Hard Copy:	
S.Sumbaly@westonsolutions.com		S.Sumbaly@westonsolutions.com		Weston Solutions, Inc.	
Brittney.Kelly@westonsolutions.com		Brittney.Kelly@westonsolutions.com		1090 King Georges Post Road	
				Edison, New Jersey 08837	
Contaminants of Concern (if known): Lead					
Known Hazardous Waste Constituents:					
Special Requests & Reporting Requirements (attach if more space required):					
24-48 hours turnaround time require for the air samples preliminary data and 24 hours TAT for the soil samples preliminary data					
14 days TAT for validated data package require.					
approximately 10 soils samples will be submitted per day.					
48					
J. B. 11/27/12					
FILE					

U.S. EPA Region 2 Analysis Request Form

[illegible]

**** See instruction sheet for explanation of Turnaround Time for validated data.**

[illegible]

Site: Jewett White Lead

Contact Name: Sasha Mallon

Contact Phone: 732-570-4997

No: 2-011713-110545-0030

DESA

John Birri

732-906-6886

Lab #	Sample #	Location	Collected	Matrix	Sample Time	Numb Cont	Container	Analyses	Preservative	MS/MSD
23-01	S-039-7884-001	S-039	1/17/2013	Soil	08:27	1	4.oz glass jar	Lead	4 C	Y
-02	S-039-7884-002	S-039	1/17/2013	Soil	08:27	1	4 oz glass jar	Lead	4 C	N
-03	S-040-1824-001	S-040	1/17/2013	Soil	08:25	1	4 oz glass jar	Lead	4 C	N
<p><i>Q.M.</i></p> <p><i>1/17/13</i></p>										

Special Instructions: Please note sample S-040-1824-001 had a screening greater than 13K ppm Pb.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

[illegible]

Cooler @ 9.8°C - hand deliver
on ice



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Sample Acceptance Checklist

Work Order: 1301023

Printed: 1/17/2013 2:13:28PM

Project: Jewett White Lead - 1212042
Project Number: 1212042

Client: Weston Solutions Inc.
Project Due Date: 01/18/2013

Report To:

Weston Solutions Inc.
Smita Sumbaly
205 Campus Drive
Edison, NJ 08837
Phone: (732) 585-4410
Fax: NONE

Program: Weston Solutions Inc.
Program Code: Removal - RV
Superfund Account Number: 13 T 02P-303DC6-A218-LA-00

WO Date Due: 01/18/2013 00:00 (1 day TAT)

Tracking No:

Received By: Michelle Schwartz

Date Received: 01/17/2013 14:00

Logged In By: Michelle Schwartz

Date Logged In: 01/17/2013 14:04

Sample Conditions:

Custody Seals (for Crim. Enf. Sample)	No	Proper Preservation and Holding Times?	Yes	Additional Sample comments?	Yes
Adequate Sample Volume	Yes	Labels Water Resistant with Indelible Ink	Yes	Samples hand delivered?	Yes
Appropriate Sample Containers	Yes	Shipping Documents Properly Signed & Dtd?	No	Chilling started for hand delivered samples?	Yes
No Signs of Damage or Contaminatio	Yes	COC/Sample Labels agree?	Yes		

Cooler at Temp of 10 C

Analysis

Analysis Due Date

Hold Time

1301023-01 S-039-7884-001 [Solid] Sampled 01/17/2013 08:27 Eastern [1 Container]

E-Lead ICP 7/16/2013 12:00:00AM 180

1301023-02 S-039-7884-002 [Solid] Sampled 01/17/2013 08:27 Eastern [1 Container]

E-Lead ICP 7/16/2013 12:00:00AM 180

1301023-03 S-040-1824-001 [Solid] Sampled 01/17/2013 08:25 Eastern [1 Container]

E-Lead ICP 7/16/2013 12:00:00AM 180

Reviewed By

Date

01/17/2013

**EPA REGION 2 LABORATORY
OFFICIAL SAMPLE CONTROL AND REPOSITORY**

Dates	Project Info	Work Order	Report Recipient
Date/Time Received: 01/17/2013 14:00	Project Name: Jewett White Lead - 1212042	Work Order #: 1301023 # of Samples: 3	
Report Date: 01/17/2013 14:11	SDG Number/Project Number: P-1212042/1212042 Project Leader Smita Sumbaly		
	Decision Unit: Y206RV	# of Analyses: 3	

Samples/Work Distribution/Sample Type

ESAT

Metals(E) E-Lead ICP(3 Solid)

Customer Service Survey Results

Category	Ranking					
Planning:	<input type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4	<input type="radio"/> 5	<input type="radio"/> NA
Timeliness:	<input type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4	<input type="radio"/> 5	<input type="radio"/> NA
Quality:	<input type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4	<input type="radio"/> 5	<input type="radio"/> NA
Communication:	<input type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4	<input type="radio"/> 5	<input type="radio"/> NA

Follow-Up? ☐ Yes ☒ No

Comments:



Re: Jewett samples 
Ness Tirol to: Mark Gallo
Cc: John Bourbon, Lisa Brassell, Region2 OSCAR

01/17/2013 02:36 PM

Ness Tirol *Mark, We received the three (3) samples half hour ago. The Laboratory*

Mark,

We received the three (3) samples half hour ago. The Laboratory will facilitate the analysis for Pb and we will provide the results for these mentioned samples before noontime or earlier tomorrow as per our phone conversation. John Bourbon will provide the report to you tomorrow.

Furthermore, the results for samples to be received tomorrow, Friday, 1/18/13, will be provided to you on Tuesday, 1/22/13 morning about 8am.

Please let me know if you have questions.

Ness

~~~~~  
Ness Tirol  
Laboratory Branch, MS 230  
Division of Environmental Science and Technology  
U. S. EPA Region 2  
2890 Woodbridge Avenue  
Edison, NJ 08837  
phone (732) 321-4431  
fax (732) 906-6165  
~~~~~

Mark Gallo

Ness.. We were able get some samples this mor...

01/17/2013 08:56:08 AM

From: Mark Gallo/R2/USEPA/US
To: "Ness Tirol" <Tirol.Ness@epamail.epa.gov>
Date: 01/17/2013 08:56 AM
Subject: Jewett samples

Ness.. We were able get some samples this morning... Andy sahould be running them back early afternoon... Prob 3 samples today

Mark Gallo
(732) 906-6871
msg sent via blackberry



Fw: Jewett samples
Ness Tirol to: Region2 OSCAR

01/17/2013 01:54 PM

Ness Tirol

Fw: Jewett samples

~~~~~  
Ness Tirol  
Laboratory Branch, MS 230  
Division of Environmental Science and Technology  
U. S. EPA Region 2  
2890 Woodbridge Avenue  
Edison, NJ 08837  
phone (732) 321-4431  
~~~~~  
fax (732) 906-6165

-----Forwarded by Ness Tirol/R2/USEPA/US on 01/17/2013 01:53PM -----

=====
To: "Ness Tirol" <Tirol.Ness@epamail.epa.gov>
From: Mark Gallo/R2/USEPA/US@EPA
Date: 01/17/2013 08:56AM
Subject: Jewett samples
=====

Ness.. We were able get some samples this morning... Andy sahould be running them back early afternoon... Prob 3 samples today

Mark Gallo
(732) 906-6871
msg sent via blackberry



OFFICIAL
CUSTODY SEAL

02P-1155

Name

B. Mallon

Date

1/7/13

W.O. #



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

**Region 2 Laboratory
2890 Woodbridge Avenue
Edison, New Jersey 08837
732-906-6886 Phone
732-906-6165 Fax**

PARTIAL

January 22, 2013

Smita Sumbaly
Weston Solutions Inc.
205 Campus Drive
Edison, NJ 08837

RE: Jewett White Lead - 1212042

Enclosed are the results of analyses for samples received by the laboratory on 01/17/2013. The signature below reflects the laboratory's approval of the reported results. If you have any questions concerning this report, please refer to Project Number 1212042 and contact John Birri by phone at 732-906-6886, or via Email at birri.john@epa.gov.

Sincerely,

John R. Bourbon
Chief, DESA/LB

FILE

DRAFT



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Jewett White Lead - 1212042

Project Number: 1212042

Project Narrative:

The National Environmental Laboratory Accreditation Conference Institute (NELAP) is a voluntary environmental laboratory accreditation association of State and Federal agencies. NELAP established and promoted a National Environmental Laboratory Accreditation Program (NELAP) that provides a uniform set of standards for the generation of environmental data that are of known and defensible quality. The EPA Region 2 Laboratory is NELAP accredited. The Laboratory tests that are accredited have met all the requirements established under the NELAP Standards.

Condition Comments

None

Comment(s):

None

Data Qualifier(s):

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Reporting Limit(s):

The Laboratory was able to achieve the appropriate limits for each analyte requested.

317



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Jewett White Lead - 1212042

Project Number: 1212042

SUMMARY REPORT FOR SAMPLES

Field ID	Laboratory ID	Matrix	Date Sampled	Date Received
S-039-7884-001	1301023-01	Solid	01/17/2013 08:27	01/17/2013 14:00
S-039-7884-002	1301023-02	Solid	01/17/2013 08:27	01/17/2013 14:00
S-040-1824-001	1301023-03	Solid	01/17/2013 08:25	01/17/2013 14:00

DRAFT REPORT

Reported: 1/22/2013

Page 2 of 5



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Jewett White Lead - 1212042

Project Number: 1212042

SUMMARY REPORT FOR METHODS

Analysis	Method	Certification	Matrix
Lead	EPA 200.7 / SOP C-109 Rev3.2	NELAP	Solid



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Jewett White Lead - 1212042

Project Number: 1212042

Analyte	Result	Qualifier	Reporting Limit	Units	Batch
Field ID: DRAFT: S-039-7884-001					
Sample ID: 1301023-01					
Metals ICP					
Lead	7.1		0.72	mg/kg dry	B301068
Field ID: DRAFT: S-039-7884-002					
Sample ID: 1301023-02					
Metals ICP					
Lead	6.8		0.73	mg/kg dry	B301068
Field ID: DRAFT: S-040-1824-001					
Sample ID: 1301023-03					
Metals ICP					
Lead	13000		8.3	mg/kg dry	B301068

DRAFT REPORT

Reported: 1/22/2013

Page 4 of 5



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Jewett White Lead - 1212042

Project Number: 1212042

DRAFT: Metals ICP - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B301068									
Blank (B301068-BLK1)									
Lead	— U	0.78	mg/kg wet						
Matrix Spike (B301068-MS1)									
Source: 1301023-01									
Lead	24.0	0.72	mg/kg dry	18.12	7.06	93.5	75-125		
Matrix Spike Dup (B301068-MSD1)									
Source: 1301023-01									
Lead	25.1	3.6	mg/kg dry	18.12	7.06	99.4	75-125	4.34	10
Reference (B301068-SRM1)									
Lead	73.2	0.80	mg/kg wet	76.90		95.2	81.3-118.7		
Reference (B301068-SRM2)									
Lead	73.3	0.80	mg/kg wet	76.90		95.3	81.3-118.7		



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

**Region 2 Laboratory
2890 Woodbridge Avenue
Edison, New Jersey 08837
732-906-6886 Phone
732-906-6165 Fax**

PARTIAL

January 18, 2013

Smita Sumbaly
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205 Campus Drive
Edison, NJ 08837

RE: Jewett White Lead - 1212042

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Sincerely,

A handwritten signature in black ink, appearing to read "John R. Bourbon", is written over a horizontal line.

John R. Bourbon
Chief, DESA/LB



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Jewett White Lead - 1212042

Project Number: 1212042

Project Narrative:

INTERNAL

The National Environmental Laboratory Accreditation Conference Institute (NELAP) is a voluntary environmental laboratory accreditation association of State and Federal agencies. NELAP established and promoted a National Environmental Laboratory Accreditation Program (NELAP) that provides a uniform set of standards for the generation of environmental data that are of known and defensible quality. The EPA Region 2 Laboratory is NELAP accredited. The Laboratory tests that are accredited have met all the requirements established under the NELAP Standards.

Condition Comments

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Jewett White Lead - 1212042

Project Number: 1212042

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S-039-7884-002	1301023-02	Solid	01/17/2013 08:27	01/17/2013 14:00
S-040-1824-001	1301023-03	Solid	01/17/2013 08:25	01/17/2013 14:00



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Jewett White Lead - 1212042

Project Number: 1212042

SUMMARY REPORT FOR METHODS

Analysis	Method	Certification	Matrix
Lead	EPA 200.7 / SOP C-109 Rev3.2	NELAP	Solid



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Jewett White Lead - 1212042

Project Number: 1212042

Analyte		Result	Qualifier	Reporting Limit	Units
Field ID: S-039-7884-001		Sample ID: 1301023-01			
Metals ICP					
Lead		7.1		0.72	mg/kg dry
Field ID: S-039-7884-002		Sample ID: 1301023-02			
Metals ICP					
Lead		6.8		0.73	mg/kg dry
Field ID: S-040-1824-001		Sample ID: 1301023-03			
Metals ICP					
Lead		13000		8.3	mg/kg dry



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 2 Laboratory
2890 Woodbridge Avenue
Edison, New Jersey 08837
732-906-6886 Phone
732-906-6165 Fax

Approval Form / Project Checklist

Project Number: 1212042

Report Date: January 22, 2013

Project/Survey Name: Jewett White Lead - 1212042

Addressee: Weston Solutions Inc.

CC: Mark Gallo

Smita Sumbaly

1090 King Georges Post Road, Suite 201

Edison, NJ 08837

PARTIAL

Comments

* Partial Draft report generated with WD # 1301027 EA 1/22/13

Approvals

	NAME:	Signature/Date
OSCAR Report Coord.	ZUBAR F. ALI	<i>[Signature]</i> 1/22/13
Special Projects Coord.	John Birri	<i>[Signature]</i> 1/22/13
Laboratory QAO	Sunny Cherukara	<i>[Signature]</i> 1/28/13
Laboratory Branch Chief	John Bourbon	<i>[Signature]</i> for JAB 1/22/13



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 2 Laboratory
2890 Woodbridge Avenue
Edison, New Jersey 08837
732-906-6886 Phone
732-906-6165 Fax

Approval Form / Project Checklist

Project Number: 1212042

Project/Survey Name: Jewett White Lead - 1212042

Project File Information

File Core Data		✓			✓
1	Project Report - 1 Copy		13	Sanitary Chemistry	
2	Project Narrative - 1 Copy				
3	Analytical Request Form (ARF)				
4	External Chain of Custody Forms				
5	Shipping Forms/Air Bills				
6	Sample Acceptance Checklist(s)				
7	Internal Chain of Custody Form(s)				
8	OSCAR Sample Tracking Log				
9	Project Correspondence				
Area Specific Raw Data					
11	Organics		14	Microbiology	
	VOAs				
	NVOAs				
	PCBs				
	Pesticides				
	Haloacetic Acids				
	MEE				
			15	Biology	
12	Metals				
	ICP-AES				
	ICP-MS				
	CVAAS - Mercury				
	DMA - Mercury				

Revised

Site Name: Jewett White Lead Site		CERCLIS ID: NYD980531545		Sampling Dates:	
City/Town: Staten Island		Op Unit: 00		Start: 10/3/2012 - 12/10/12	
State: NY		Site Spill ID: A218		Finish: 11/3/2012 - 1/3/12	
		Action Code: Removal - RV		Arrival Time:	
EPA Project Manager:		Analytical Services Requestor:		Proposed Shipping Dates:	
First Name: Mark		First Name: Smita		Start: 10/3/2012 - 12/10/12	
Last Name: Gallo		Last Name: Sumbaly		Finish: 11/3/2012 1/3/12	
		Phone #: 7325854410		Saturday Delivery? <input type="checkbox"/> Yes	
Organization: RST 2					
EPA Approved QAPP?: <input type="checkbox"/> Yes		Oversight/Split Sampling?: <input type="checkbox"/> Yes		Labs Used:	
Date of QAPP Approval: not approved		(e.g. PRP/Fed Facility)		(PRP/FF)	
E-mail for Lab Assignments:		E-mail for Data:		Address for Hard Copy:	
S.Sumbaly@westonsolutions.com		S.Sumbaly@westonsolutions.com		Weston Solutions, Inc.	
Brittney.Kelly@westonsolutions.com		Brittney.Kelly@westonsolutions.com		1090 King Georges Post Road	
				Edison, New Jersey 08837	
Contaminants of Concern (if known):		Lead			
Known Hazardous Waste Constituents:					
Special Requests & Reporting Requirements (attach if more space required):					
24-48 hours turnaround time require for the air samples preliminary data and 24 hours TAT for the soil samples preliminary data					
14 days TAT for validated data package require.					
approximately 10 soils samples will be submitted per day.					
<div style="display: flex; justify-content: space-between; align-items: center;"> <div> <p>48</p> <p>J. B. in</p> <p>11/27/12</p> </div> <div style="font-size: 4em; transform: rotate(-15deg);">FILE</div> </div>					

U.S. EPA Region 2 Analysis Request Form

[illegible]

**** See instruction sheet for explanation of Turnaround Time for validated data.**

Category	_____	_____	_____
SHIRLEY M. HARRIS			

Hand delivered: 1/18/13

CHAIN OF CUSTODY RECORD

Site: Jewett White Lead

Contact Name: Sasha Mallon

Contact Phone: 732-570-4997

No: 2-011813-132850-0032

DESA

Lab Contact: John Birri

732-906-6886

[illegible]

Special Instructions:

Red Cooler 1 = 5.6°C on 1/18/13

[illegible]

CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time
all samples	A. Mallon	1/18/13	Evan M. Hally	1/18/13	16:27



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Sample Acceptance Checklist

Work Order: 1301027

Printed: 1/18/2013 5:20:31PM

Project: Jewett White Lead - 1212042
Project Number: 1212042

Client: Weston Solutions Inc.
Project Due Date: 01/22/2013

Report To:

Weston Solutions Inc.
Smita Sumbaly
205 Campus Drive
Edison, NJ 08837
Phone: (732) 585-4410
Fax: NONE

Program: Weston Solutions Inc.
Program Code: Removal - RV
Superfund Account Number: 13 T 02P-303DC6-A218-LA 00

WO Date Due: 01/22/2013 00:00 (4 day TAT)

Tracking No:

Received By: Erica McNally

Date Received: 01/18/2013 16:27

Logged In By: Erica McNally

Date Logged In: 01/18/2013 16:33

Sample Conditions:

Custody Seals (for Crim. Enf. Sample	No	Proper Preservation and Holding Times?	Yes	Additional Sample comments?	Yes
Adequate Sample Volume	Yes	Labels Water Resistant with Indelible Ink	Yes	Samples hand delivered?	Yes
Appropriate Sample Containers	Yes	Shipping Documents Properly Signed & Dtd?	No	Chilling started for hand delivered samples?	Yes
No Signs of Damage or Contaminatio	Yes	COC/Sample Labels agree?	Yes		

Red Cooler 1 at Temp of 6 C

Analysis	Analysis Due Date	Hold Time
----------	-------------------	-----------

1301027-01 S-041-3642-001 [Solid] Sampled 01/18/2013 09:15 Eastern [1 Container]

E-Lead ICP	7/17/2013 12:00:00AM	180
------------	----------------------	-----

1301027-02 S-041-3642-002 [Solid] Sampled 01/18/2013 09:15 Eastern [1 Container]

E-Lead ICP	7/17/2013 12:00:00AM	180
------------	----------------------	-----

1301027-03 S-042-3642-001 [Solid] Sampled 01/18/2013 09:20 Eastern [1 Container]

E-Lead ICP	7/17/2013 12:00:00AM	180
------------	----------------------	-----

1301027-04 S-043-1824-001 [Solid] Sampled 01/18/2013 09:25 Eastern [1 Container]

E-Lead ICP	7/17/2013 12:00:00AM	180
------------	----------------------	-----

1301027-05 S-044-4854-001 [Solid] Sampled 01/18/2013 12:11 Eastern [1 Container]

E-Lead ICP	7/17/2013 12:00:00AM	180
------------	----------------------	-----



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Sample Acceptance Checklist

Work Order: 1301027

Printed: 1/18/2013 5:20:31PM

Project: Jewett White Lead - 1212042
Project Number: 1212042

Client: Weston Solutions Inc.
Project Due Date: 01/22/2013

Analysis	Analysis Due Date	Hold Time
1301027-06 S-045-4854-001 [Solid] Sampled 01/18/2013 12:15 Eastern [1 Container]		
E-Lead ICP	7/17/2013 12:00:00AM	180
1301027-07 S-046-5460-001 [Solid] Sampled 01/18/2013 13:55 Eastern [1 Container]		
E-Lead ICP	7/17/2013 12:00:00AM	180
1301027-08 S-047-6672-001 [Solid] Sampled 01/18/2013 14:00 Eastern [1 Container]		
E-Lead ICP	7/17/2013 12:00:00AM	180

WorkOrder Comments

Per E-mail from N. Tirol, samples delivered 1/18/13 will be provided on 1/22/13 at 8am (see Other Documents for pdf).

Michelle J. Schwartz
Reviewed By

1/18/13
Date

01/18/2013

**EPA REGION 2 LABORATORY
OFFICIAL SAMPLE CONTROL AND REPOSITORY**

Dates	Project Info	Work Order	Report Recipient
Date/Time Received: 01/18/2013 16:27	Project Name: Jewett White Lead - 1212042	Work Order #: 1301027 # of Samples: 8	
Report Date: 01/18/2013 17:08	SDG Number/Project Number: P-1212042/1212042 Project Leader Smita Sumbaly		
	Decision Unit: Y206RV	# of Analyses: 8	

Samples/Work Distribution/Sample Type

ESAT

Metals(E) E-Lead ICP(8 Solid)

Customer Service Survey Results

Category	Ranking
Planning:	<input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 <input type="radio"/> 5 <input type="radio"/> NA
Timeliness:	<input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 <input type="radio"/> 5 <input type="radio"/> NA
Quality:	<input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 <input type="radio"/> 5 <input type="radio"/> NA
Communication:	<input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 <input type="radio"/> 5 <input type="radio"/> NA

Follow-Up? ☐ Yes ☒ No

Comments:



Re: Jewett samples 
Ness Tirol to: Mark Gallo
Cc: John Bourbon, Lisa Brassell, Region2 OSCAR

01/17/2013 02:36 PM

From: Ness Tirol/R2/USEPA/US
To: Mark Gallo/R2/USEPA/US@EPA
Cc: John Bourbon/R2/USEPA/US@EPA, Lisa Brassell/R2/USEPA/US@EPA, Region2 OSCAR@EPA

Mark,

We received the three (3) samples half hour ago. The Laboratory will facilitate the analysis for Pb and we will provide the results for these mentioned samples before noontime or earlier tomorrow as per our phone conversation. John Bourbon will provide the report to you tomorrow.

Furthermore, the results for samples to be received tomorrow, Friday, 1/18/13, will be provided to you on Tuesday, 1/22/13 morning about 8am.

Please let me know if you have questions.

Ness

~~~~~  
Ness Tirol  
Laboratory Branch, MS 230  
Division of Environmental Science and Technology  
U. S. EPA Region 2  
2890 Woodbridge Avenue  
Edison, NJ 08837  
phone (732) 321-4431  
fax (732) 906-6165  
~~~~~

Mark Gallo

Ness.. We were able get some samples this mor...

01/17/2013 08:56:08 AM

From: Mark Gallo/R2/USEPA/US
To: "Ness Tirol" <Tirol.Ness@epamail.epa.gov>
Date: 01/17/2013 08:56 AM
Subject: Jewett samples

Ness.. We were able get some samples this morning... Andy sahould be running them back early afternoon... Prob 3 samples today

Mark Gallo
(732) 906-6871
msg sent via blackberry

Jewett White Lead Y1813

WESTON SOLUTIONS® OFFICIAL CUSTODY SEAL <small>02P-1155</small>	Name <u>A. Mallon</u>
	Date <u>1/18/13</u>
	W.O. # <u> </u>

WESTON SOLUTIONS® OFFICIAL CUSTODY SEAL <small>02P-1155</small>	Name <u>A. Mallon</u>
	Date <u>1/18/13</u>
	W.O. # <u> </u>

Red Cooler 1 = 5.6°C EM Y1813



Region 2 Laboratory
2890 Woodbridge Avenue
Edison , New Jersey 08837
732-906-6886 Phone
732-906-6165 Fax

Project/Survey Name: Jewett White Lead - 1212042

Page 2 of 2



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 2 Laboratory
2890 Woodbridge Avenue
Edison, New Jersey 08837
732-906-6886 Phone
732-906-6165 Fax

PARTIAL

Approval Form / Project Checklist

Project Number: 1212042

Report Date: January 24, 2013

Project/Survey Name: Jewett White Lead - 1212042

Addressee: Weston Solutions Inc.

CC: Mark Gallo

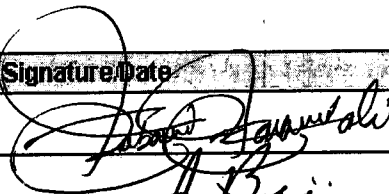
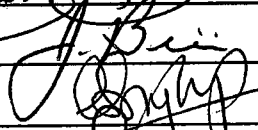
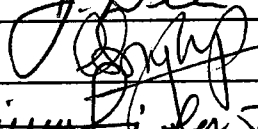
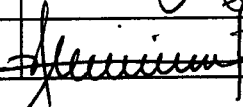
Smita Sumbaly

1090 King Georges Post Road, Suite 201
Edison, NJ 08837

Comments

* Partial Draft report generated with WO#1301035 on 1/24/13

Approvals

	NAME:	Signature/Date
OSCAR Report Coord.	ZUBAIR F. ALI	 1/24/13
Special Projects Coord.	John Birri	 1/28/13
Laboratory QAO	Sunny Cherukara	 2/6/13
Laboratory Branch Chief	John Bourbon	 for JMB 1/24/13



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Jewett White Lead - 1212042

Project Number: 1212042

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: S-046-5460-001			Sample ID: 1301027-07	

Metals ICP

Lead	40	0.74	mg/kg dry
------	----	------	-----------

Field ID: S-047-6672-001	Sample ID: 1301027-08
--------------------------	-----------------------

Metals ICP

Lead	8.0	0.74	mg/kg dry
------	-----	------	-----------



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Jewett White Lead - 1212042

Project Number: 1212042

Analyte		Result	Qualifier	Reporting Limit	Units
Field ID: S-041-3642-001		Sample ID: 1301027-01			
Metals ICP					
Lead		21		0.72	mg/kg dry
Field ID: S-041-3642-002		Sample ID: 1301027-02			
Metals ICP					
Lead		20		0.74	mg/kg dry
Field ID: S-042-3642-001		Sample ID: 1301027-03			
Metals ICP					
Lead		210		0.73	mg/kg dry
Field ID: S-043-1824-001		Sample ID: 1301027-04			
Metals ICP					
Lead		820		0.73	mg/kg dry
Field ID: S-044-4854-001		Sample ID: 1301027-05			
Metals ICP					
Lead		57		0.75	mg/kg dry
Field ID: S-045-4854-001		Sample ID: 1301027-06			
Metals ICP					
Lead		6.9		0.76	mg/kg dry
Field ID: S-046-5460-001		Sample ID: 1301027-07			



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Jewett White Lead - 1212042

Project Number: 1212042

SUMMARY REPORT FOR METHODS

Analysis	Method	Certification	Matrix
Lead	EPA 200.7 / SOP C-109 Rev3.2	NELAP	Solid



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Jewett White Lead - 1212042

Project Number: 1212042

SUMMARY REPORT FOR SAMPLES

Field ID	Laboratory ID	Matrix	Date Sampled	Date Received
S-041-3642-001	1301027-01	Solid	01/18/2013 09:15	01/18/2013 16:27
S-041-3642-002	1301027-02	Solid	01/18/2013 09:15	01/18/2013 16:27
S-042-3642-001	1301027-03	Solid	01/18/2013 09:20	01/18/2013 16:27
S-043-1824-001	1301027-04	Solid	01/18/2013 09:25	01/18/2013 16:27
S-044-4854-001	1301027-05	Solid	01/18/2013 12:11	01/18/2013 16:27
S-045-4854-001	1301027-06	Solid	01/18/2013 12:15	01/18/2013 16:27
S-046-5460-001	1301027-07	Solid	01/18/2013 13:55	01/18/2013 16:27
S-047-6672-001	1301027-08	Solid	01/18/2013 14:00	01/18/2013 16:27



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Jewett White Lead - 1212042

Project Number: 1212042

Project Narrative:

The National Environmental Laboratory Accreditation Conference Institute (TNI) is a voluntary environmental laboratory accreditation association of State and Federal agencies. TNI established and promoted a National Environmental Laboratory Accreditation Program (NELAP) that provides a uniform set of standards for the generation of environmental data that are of known and defensible quality. The EPA Region 2 Laboratory is NELAP accredited. The Laboratory tests that are accredited have met all the requirements established under the TNI Standards.

Condition Comments

None

Comment(s):

None

Data Qualifier(s):

- U- The analyte was not detected at or above the Reporting Limit.
- J- The identification of the analyte is acceptable; the reported value is an estimate.
- K- The identification of the analyte is acceptable; the reported value may be biased high.
- L- The identification of the analyte is acceptable; the reported value may be biased low.
- NJ- There is presumptive evidence that the analyte is present; the analyte is reported as a tentative identification. The reported value is an estimate.

Reporting Limit(s):

The Laboratory was able to achieve the appropriate limits for each analyte requested.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 2 Laboratory
2890 Woodbridge Avenue
Edison, New Jersey 08837
732-906-6886 Phone
732-906-6165 Fax

PARTIAL

January 22, 2013

Smita Sumbaly
Weston Solutions Inc.
205 Campus Drive
Edison, NJ 08837

RE: Jewett White Lead - 1212042

Enclosed are the results of analyses for samples received by the laboratory on 01/18/2013. The signature below reflects the laboratory's approval of the reported results. If you have any questions concerning this report, please refer to Project Number 1212042 and contact John Birri by phone at 732-906-6886, or via Email at birri.john@epa.gov.

Sincerely,

A handwritten signature in cursive script, appearing to read "John R. Bourbon", is written over a horizontal line.

John R. Bourbon
Chief, DESA/LB



EPA Region 2 Partial Laboratory Report: Jewett White Lead Site Project

Ness Tirol to: s.sumbaly, Mark Gallo

01/22/2013 09:33 AM

Cc: Gregory Santacroce, John Birri, Sumy Cherukara, William Rickert,
Renee Lettieri, John Bourbon, Yelena Khusid, Jim Ferretti

From: Ness Tirol/R2/USEPA/US

To: s.sumbaly@westonsolutions.com, Mark Gallo/R2/USEPA/US@EPA

Cc: Gregory Santacroce/R2/USEPA/US@EPA, John Birri/R2/USEPA/US@EPA, Sumy
Cherukara/R2/USEPA/US@EPA, William Rickert/R2/USEPA/US@EPA, Renee
Lettieri/R2/USEPA/US@EPA, John Bourbon/R2/USEPA/US@EPA, Yelena

I have attached a Laboratory Report (in .pdf format w/project narrative) and the R2EDD Version 3 EQUIS file (in .xls format) for the Jewett White Lead Site Project (Project# 1212042) with Work Order #1301027 accepted by the EPA Region 2 Laboratory. The Laboratory received the samples on 1/18/13. The data have been validated by the Laboratory.



1301027 P-1212042 FINAL 01 22 2013 0900.pdf R2EDD_V3 1301027 P-1212042 FINAL 22 Jan 13 0900.xls

In addition, we would like you to complete a very short project survey to share your experience as a customer for this project. The survey can be accessed using the link below and will take less than a minute of your time. Thank you.

*EPA REGION 2 LAB PROJECT SURVEY - ****Please Click Here to
Take Survey*****

Please let me know if you have any questions.

~~~~~  
Ness Tirol  
Laboratory Branch, MS 230  
Division of Environmental Science and Technology  
U. S. EPA Region 2  
2890 Woodbridge Avenue  
Edison, NJ 08837  
phone (732) 321-4431  
fax (732) 906-6165  
~~~~~



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Jewett White Lead - 1212042

Project Number: 1212042

DRAFT: Metals ICP - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B301080									
Blank (B301080-BLK1)									
Lead	— U	0.79	mg/kg wet						
Matrix Spike (B301080-MS1) Source: 1301027-01									
Lead	41.2	0.72	mg/kg dry	18.12	21.5	109	75-125		
Matrix Spike Dup (B301080-MSD1) Source: 1301027-01									
Lead	44.0	3.6	mg/kg dry	18.12	21.5	124	75-125	6.39	10
Reference (B301080-SRM1)									
Lead	75.0	0.80	mg/kg wet	76.90		97.6	81.3-118.7		
Reference (B301080-SRM2)									
Lead	72.3	0.80	mg/kg wet	76.90		94.0	81.3-118.7		

DRAFT REPORT

Reported: 1/22/2013

Page 6 of 6



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Jewett White Lead - 1212042

Project Number: 1212042

Analyte	Result	Qualifier	Reporting Limit	Units	Batch
---------	--------	-----------	-----------------	-------	-------

Field ID: DRAFT: S-047-6672-001

Sample ID: 1301027-08

Metals ICP

Lead	8.0	0.74	mg/kg dry	B301080
------	-----	------	-----------	---------



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Jewett White Lead - 1212042

Project Number: 1212042

Analyte	Result	Qualifier	Reporting Limit	Units	Batch
Field ID: DRAFT: S-041-3642-001			Sample ID: 1301027-01		
Metals ICP					
Lead	21		0.72	mg/kg dry	B301080
Field ID: DRAFT: S-041-3642-002			Sample ID: 1301027-02		
Metals ICP					
Lead	20		0.74	mg/kg dry	B301080
Field ID: DRAFT: S-042-3642-001			Sample ID: 1301027-03		
Metals ICP					
Lead	210		0.73	mg/kg dry	B301080
Field ID: DRAFT: S-043-1824-001			Sample ID: 1301027-04		
Metals ICP					
Lead	820		0.73	mg/kg dry	B301080
Field ID: DRAFT: S-044-4854-001			Sample ID: 1301027-05		
Metals ICP					
Lead	57		0.75	mg/kg dry	B301080
Field ID: DRAFT: S-045-4854-001			Sample ID: 1301027-06		
Metals ICP					
Lead	6.9		0.76	mg/kg dry	B301080
Field ID: DRAFT: S-046-5460-001			Sample ID: 1301027-07		
Metals ICP					
Lead	40		0.74	mg/kg dry	B301080

DRAFT REPORT

Reported: 1/22/2013

Page 4 of 6



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Jewett White Lead - 1212042

Project Number: 1212042

SUMMARY REPORT FOR METHODS

Analysis	Method	Certification	Matrix
Lead	EPA 200.7 / SOP C-109 Rev3.2	NELAP	Solid

DRAFT REPORT

Reported: 1/22/2013

Page 3 of 6



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Jewett White Lead - 1212042

Project Number: 1212042

SUMMARY REPORT FOR SAMPLES

Field ID	Laboratory ID	Matrix	Date Sampled	Date Received
S-041-3642-001	1301027-01	Solid	01/18/2013 09:15	01/18/2013 16:27
S-041-3642-002	1301027-02	Solid	01/18/2013 09:15	01/18/2013 16:27
S-042-3642-001	1301027-03	Solid	01/18/2013 09:20	01/18/2013 16:27
S-043-1824-001	1301027-04	Solid	01/18/2013 09:25	01/18/2013 16:27
S-044-4854-001	1301027-05	Solid	01/18/2013 12:11	01/18/2013 16:27
S-045-4854-001	1301027-06	Solid	01/18/2013 12:15	01/18/2013 16:27
S-046-5460-001	1301027-07	Solid	01/18/2013 13:55	01/18/2013 16:27
S-047-6672-001	1301027-08	Solid	01/18/2013 14:00	01/18/2013 16:27



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Jewett White Lead - 1212042

Project Number: 1212042

Project Narrative:

The National Environmental Laboratory Accreditation Conference Institute (TNI) is a voluntary environmental laboratory accreditation association of State and Federal agencies. TNI established and promoted a National Environmental Laboratory Accreditation Program (NELAP) that provides a uniform set of standards for the generation of environmental data that are of known and defensible quality. The EPA Region 2 Laboratory is NELAP accredited. The Laboratory tests that are accredited have met all the requirements established under the TNI Standards.

Condition Comments

None

Comment(s):

None

Data Qualifier(s):

- U- The analyte was not detected at or above the Reporting Limit.
- J- The identification of the analyte is acceptable; the reported value is an estimate.
- K- The identification of the analyte is acceptable; the reported value may be biased high.
- L- The identification of the analyte is acceptable; the reported value may be biased low.
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Reporting Limit(s):

The Laboratory was able to achieve the appropriate limits for each analyte requested.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

**Region 2 Laboratory
2890 Woodbridge Avenue
Edison, New Jersey 08837
732-906-6886 Phone
732-906-6165 Fax**

PARTIAL

January 22, 2013

Smita Sumbaly
Weston Solutions Inc.
205 Campus Drive
Edison, NJ 08837

RE: Jewett White Lead - 1212042

Enclosed are the results of analyses for samples received by the laboratory on 01/18/2013. The signature below reflects the laboratory's approval of the reported results. If you have any questions concerning this report, please refer to Project Number 1212042 and contact John Birri by phone at 732-906-6886, or via Email at birri.john@epa.gov.

Sincerely,

John R. Bourbon
Chief, DESA/LB

FILE

DRAFT

US EPA Region 2
Analysis Request Form

Revised

Site Name: Jewett White Lead Site		CERCLIS ID: NYD980531545		Sampling Dates:	
City/Town: Staten Island		Op Unit: 00		Start: 10/3/2012 12/10/12	
State: NY		Site Spill ID: A218		Finish: 11/3/2012 1/3/12	
		Action Code: Removal - RV		Arrival Time:	
				<input type="checkbox"/> 0800-1200Hrs	
				<input type="checkbox"/> 1200-1600Hrs	
				<input checked="" type="checkbox"/> After 1600 Hrs	
EPA Project Manager:		Analytical Services Requestor:		Proposed Shipping Dates:	
First Name: Mark		First Name: Smita		Start: 10/3/2012 12/10/12	
Last Name: Gallo		Last Name: Sumbaly		Finish: 11/3/2012 1/3/12	
		Phone #: 7325854410		Saturday Delivery? <input type="checkbox"/> Yes	
		Organization: RST 2			
EPA Approved QAPP? <input type="checkbox"/> Yes		Oversight/Split Sampling? <input type="checkbox"/> Yes		Labs Used:	
Date of QAPP Approval: not approved		(e.g. PRP/Fed Facility)		(PRP/FF)	
E-mail for Lab Assignments:		E-mail for Data:		Address for Hard Copy:	
S.Sumbaly@westonsolutions.com		S.Sumbaly@westonsolutions.com		Weston Solutions, Inc.	
Brittney.Kelly@westonsolutions.com		Brittney.Kelly@westonsolutions.com		1090 King Georges Post Road	
				Edison, New Jersey 08837	
Contaminants of Concern (if known): Lead					
Known Hazardous Waste Constituents:					
Special Requests & Reporting Requirements (attach if more space required):					
24-48 hours turnaround time require for the air samples preliminary data and 34 hours TAT for the soil samples preliminary data					
14 days TAT for validated data package require.					
approximately 10 soils samples will be submitted per day.					
48					
J. Bin 11/27/12					
FILE					

U.S. EPA Region 2 Analysis Request Form

[illegible]

**** See instruction sheet for explanation of Turnaround Time for validated data.**

Accepted by		Date Accepted	
Shaded area (only for use only)			

Delivered: 1/23/13

CHAIN OF CUSTODY RECORD

Site: Jewett White Lead

Contact Name: Sasha Mallon

Contact Phone: 732-570-4997

No: 2-012313-162723-0036

DESA

Contact: John Birri

Phone: 732-906-6886[illegible]

Special Instructions:

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

[illegible]

Cooler 1 - 8.5°C EM 423/13, received on ice delivered same day as sampled



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Sample Acceptance Checklist

Work Order: 1301035

Printed: 1/23/2013 6:19:24PM

Project: Jewett White Lead - 1212042 ✓
Project Number: 1212042

Client: Weston Solutions Inc.
Project Due Date: 01/24/2013

Report To:

Weston Solutions Inc. ✓
Smita Sumbaly
205 Campus Drive
Edison, NJ 08837
Phone: (732) 585-4410
Fax: NONE

Program: Weston Solutions Inc. ✓
Program Code: Removal - RV ✓
Superfund Account Number: 13 T 02P-303DC6-A218-LA 00

WO Date Due: 01/24/2013 00:00 (1 day TAT)

Tracking No:

Received By: Erica McNally

Date Received: 01/23/2013 17:46 ✓

Logged In By: Erica McNally

Date Logged In: 01/23/2013 17:54

Sample Conditions:

Custody Seals (for Crim. Enf. Sample)	No	Proper Preservation and Holding Times?	Yes	Additional Sample comments?	Yes
Adequate Sample Volume	Yes	Labels Water Resistant with Indelible Ink	Yes	Samples hand delivered?	Yes
Appropriate Sample Containers	Yes	Shipping Documents Properly Signed & Dtd?	No	Chilling started for hand delivered samples?	Yes
No Signs of Damage or Contaminatio	Yes	COC/Sample Labels agree?	Yes		

Red Cooler 1 at Temp of 9 C ✓

Analysis

Analysis Due Date

Hold Time

1301035-01 S-048-4854-001 [Solid] Sampled 01/23/2013 11:27 Eastern [1 Container] ✓

E-Lead ICP 7/22/2013 12:00:00AM 180

1301035-02 S-048-4854-002 [Solid] Sampled 01/23/2013 11:27 Eastern [1 Container] ✓

E-Lead ICP 7/22/2013 12:00:00AM 180

WorkOrder Comments

24 hr TAT per N. Tirol (see email).

Reviewed By

[Signature]

Date

1/24/13

01/24/2013

**EPA REGION 2 LABORATORY
OFFICIAL SAMPLE CONTROL AND REPOSITORY**

Dates	Project Info	Work Order	Report Recipient
Date/Time Received: 01/23/2013 17:46	Project Name: Jewett White Lead - 1212042	Work Order #: 1301035 # of Samples: 2	
Report Date: 01/24/2013 08:00	SDG Number/Project Number: P-1212042/1212042 Project Leader Smita Sumbaly		
	Decision Unit: Y206RV	# of Analyses: 2	

Samples/Work Distribution/Sample Type

ESAT

Metals(E) E-Lead ICP(2 Solid)

Customer Service Survey Results

Category	Ranking						
Planning:	<input type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4	<input type="radio"/> 5	<input type="radio"/> NA	
Timeliness:	<input type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4	<input type="radio"/> 5	<input type="radio"/> NA	
Quality:	<input type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4	<input type="radio"/> 5	<input type="radio"/> NA	
Communication:	<input type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4	<input type="radio"/> 5	<input type="radio"/> NA	

Follow-Up? ☐ Yes ☒ No

Comments:



Jewett White Lead 24 hour TAT

Erica McNally to: Ness Tirol, John Birri

Cc: Lisa Brassell, Roland Recto, Michelle Schwartz, Zubair Ali

01/23/2013 06:18 PM

Ness/John,

The laboratory received two samples hand-delivered at 17:46 for the Jewett White Lead (P-1212042). The samples are logged in under Work Order 1301035 with a TAT of 24 hours per N. Tirol verbal confirmation. The due date is tomorrow 1/24/13.

Please advise if correction is required.

Thank you,

Erica McNally
Alion Science and Technology
ESAT Contract No. EP-W-07-083
732-906-6178



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 2 Laboratory
2890 Woodbridge Avenue
Edison, New Jersey 08837
732-906-6886 Phone
732-906-6165 Fax

FILE

PARTIAL

January 23, 2013

Smita Sumbaly
Weston Solutions Inc.
205 Campus Drive
Edison, NJ 08837

PRELIMS

RE: Jewett White Lead - 1212042

Enclosed are the results of analyses for samples received by the laboratory on 01/23/2013. The signature below reflects the laboratory's approval of the reported results. If you have any questions concerning this report, please refer to Project Number 1212042 and contact John Birri by phone at 732-906-6886, or via Email at birri.john@epa.gov.

Sincerely,

John R. Bourbon
Chief, DESA/LB



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Jewett White Lead - 1212042

Project Number: 1212042

Project Narrative:

The National Environmental Laboratory Accreditation Conference Institute (TNI) is a voluntary environmental laboratory accreditation association of State and Federal agencies. TNI established and promoted a National Environmental Laboratory Accreditation Program (NELAP) that provides a uniform set of standards for the generation of environmental data that are of known and defensible quality. The EPA Region 2 Laboratory is NELAP accredited. The Laboratory tests that are accredited have met all the requirements established under the TNI Standards.

Condition Comments

None

Comment(s):

None

Data Qualifier(s):

- U- The analyte was not detected at or above the Reporting Limit.
- J- The identification of the analyte is acceptable; the reported value is an estimate.
- K- The identification of the analyte is acceptable; the reported value may be biased high.
- L- The identification of the analyte is acceptable; the reported value may be biased low.
- NJ- There is presumptive evidence that the analyte is present; the analyte is reported as a tentative identification. The reported value is an estimate.

Reporting Limit(s):

The Laboratory was able to achieve the appropriate limits for each analyte requested.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Jewett White Lead - 1212042

Project Number: 1212042

SUMMARY REPORT FOR SAMPLES

Field ID	Laboratory ID	Matrix	Date Sampled	Date Received
S-048-4854-001	1301035-01	Solid	01/23/2013 11:27	01/23/2013 17:46
S-048-4854-002	1301035-02	Solid	01/23/2013 11:27	01/23/2013 17:46

DRAFT REPORT

Reported: 1/23/2013

Page 2 of 4



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Jewett White Lead - 1212042

Project Number: 1212042

SUMMARY REPORT FOR METHODS

Analysis	Method	Certification	Matrix
Lead	EPA 200.7 / SOP C-109 Rev3.2	NELAP	Solid



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Jewett White Lead - 1212042

Project Number: 1212042

Analyte	Result	Qualifier	Reporting Limit	Units
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Field ID: DRAFT: S-048-4854-001

Sample ID: 1301035-01

Metals ICP

Lead

7.2

0.73

mg/kg dry

Field ID: DRAFT: S-048-4854-002

Sample ID: 1301035-02

Metals ICP

Lead

7.9

0.75

mg/kg dry

DRAFT REPORT

Reported: 1/23/2013

Page 4 of 4

PARTIAL



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

**Region 2 Laboratory
2890 Woodbridge Avenue
Edison, New Jersey 08837
732-906-6886 Phone
732-906-6165 Fax**

January 24, 2013

Smita Sumbaly
Weston Solutions Inc.
205 Campus Drive
Edison, NJ 08837

RE: Jewett White Lead - 1212042

Enclosed are the results of analyses for samples received by the laboratory on 01/23/2013. The signature below reflects the laboratory's approval of the reported results. If you have any questions concerning this report, please refer to Project Number 1212042 and contact John Birri by phone at 732-906-6886, or via Email at birri.john@epa.gov.

Sincerely,

John R. Bourbon
Chief, DESA/LB

JAN 14



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Jewett White Lead - 1212042

Project Number: 1212042

Project Narrative:

The National Environmental Laboratory Accreditation Conference Institute (TNI) is a voluntary environmental laboratory accreditation association of State and Federal agencies. TNI established and promoted a National Environmental Laboratory Accreditation Program (NELAP) that provides a uniform set of standards for the generation of environmental data that are of known and defensible quality. The EPA Region 2 Laboratory is NELAP accredited. The Laboratory tests that are accredited have met all the requirements established under the TNI Standards.

Condition Comments

None

Comment(s):

None

Data Qualifier(s):

- U- The analyte was not detected at or above the Reporting Limit.
- J- The identification of the analyte is acceptable; the reported value is an estimate.
- K- The identification of the analyte is acceptable; the reported value may be biased high.
- L- The identification of the analyte is acceptable; the reported value may be biased low.
- NJ- There is presumptive evidence that the analyte is present; the analyte is reported as a tentative identification. The reported value is an estimate.

Reporting Limit(s):

The Laboratory was able to achieve the appropriate limits for each analyte requested.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Jewett White Lead - 1212042

Project Number: 1212042

SUMMARY REPORT FOR SAMPLES

Field ID	Laboratory ID	Matrix	Date Sampled	Date Received
S-048-4854-001	1301035-01	Solid	01/23/2013 11:27	01/23/2013 17:46
S-048-4854-002	1301035-02	Solid	01/23/2013 11:27	01/23/2013 17:46



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Jewett White Lead - 1212042

Project Number: 1212042

SUMMARY REPORT FOR METHODS

Analysis	Method	Certification	Matrix
Lead	EPA 200.7 / SOP C-109 Rev3.2	NELAP	Solid



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Jewett White Lead - 1212042

Project Number: 1212042

Analyte	Result	Qualifier	Reporting Limit	Units
---------	--------	-----------	-----------------	-------

Field ID: S-048-4854-001

Sample ID: 1301035-01

Metals ICP

Lead

7.2

0.74

mg/kg dry

Field ID: S-048-4854-002

Sample ID: 1301035-02

Metals ICP

Lead

8.0

0.76

mg/kg dry



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 2 Laboratory
2890 Woodbridge Avenue
Edison, New Jersey 08837
732-906-6886 Phone
732-906-6165 Fax

Approval Form / Project Checklist

Project Number: 1212042

Report Date: January 25, 2013

Project/Survey Name: Jewett White Lead - 1212042

Addressee: Weston Solutions Inc.

CC: Mark Gallo

Smita Sumbaly

1090 King Georges Post Road, Suite 201

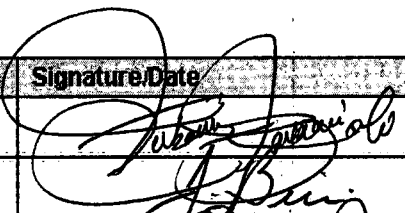
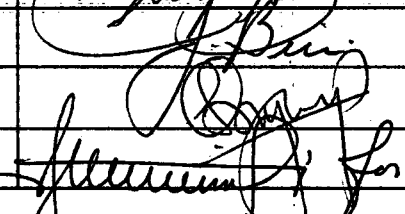
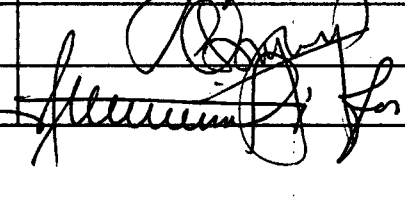
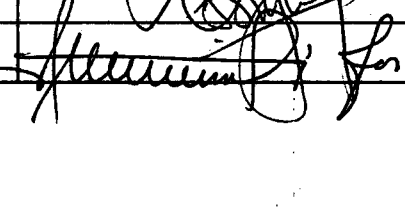
Edison, NJ 08837

PARTIAL

Comments

* Partial Draft Report generated with WO# 1301038. A 1/25/13

Approvals

	NAME:	Signature/Date
OSCAR Report Coord.	ZUBAIR F. ALI	 1/25/13
Special Projects Coord.	John Birri	 1/28/13
Laboratory QAO	Sunny Cherukara	 2/6/13
Laboratory Branch Chief	John Bourbon	 for JNB 1/25/13



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 2 Laboratory
2890 Woodbridge Avenue
Edison, New Jersey 08837
732-906-6886 Phone
732-906-6165 Fax

Approval Form / Project Checklist

Project Number: 1212042

Project/Survey Name: Jewett White Lead - 1212042

Project File Information

File Core Data			Area Specific Raw Data		
1	Project Report - 1 Copy	✓	13	Sanitary Chemistry	✓
2	Project Narrative - 1 Copy	✓			
3	Analytical Request Form (ARF)	✓			
4	External Chain of Custody Forms	✓			
5	Shipping Forms/Air Bills	N/A			
6	Sample Acceptance Checklist(s)	✓			
7	Internal Chain of Custody Form(s)	N/A			
8	OSCAR Sample Tracking Log	✓			
9	Project Correspondence	✓			
11	Organics		14	Microbiology	
	VOAs				
	NVOAs				
	PCBs				
	Pesticides				
	Haloacetic Acids				
	MEE				
12	Metals	✓	15	Biology	
	ICP-AES				
	ICP-MS				
	CVAAS - Mercury				
	DMA - Mercury				



EPA Region 2 Partial Laboratory Report: Jewett White Lead Site Project

Ness Tirol to: s.sumbaly, Mark Gallo

01/25/2013 09:36 AM

Cc: Gregory Santacroce, John Birri, Sumy Cherukara, William Rickert,
Renee Lettieri, John Bourbon, Yelena Khusid, Jim Ferretti

From: Ness Tirol/R2/USEPA/US
To: s.sumbaly@westonsolutions.com, Mark Gallo/R2/USEPA/US@EPA
Cc: Gregory Santacroce/R2/USEPA/US@EPA, John Birri/R2/USEPA/US@EPA, Sumy
Cherukara/R2/USEPA/US@EPA, William Rickert/R2/USEPA/US@EPA, Renee
Lettieri/R2/USEPA/US@EPA, John Bourbon/R2/USEPA/US@EPA, Yelena

I have attached a Laboratory Report (in .pdf format w/project narrative) and the R2EDD Version 3 EQUIS file (in .xls format) for the Jewett White Lead Site Project (Project# 1212042) with Work Order #1301038 accepted by the EPA Region 2 Laboratory. The Laboratory received the samples on 1/24/13. The data have been validated by the Laboratory.



1301038 P-1212042 FINAL 01 25 2013 0922.pdf R2EDD_V3 1301038 P-1212042 FINAL 25 Jan 13 0922.xls

In addition, we would like you to complete a very short project survey to share your experience as a customer for this project. The survey can be accessed using the link below and will take less than a minute of your time. Thank you.

*EPA REGION 2 LAB PROJECT SURVEY - ****Please Click Here to
Take Survey*****

Please let me know if you have any questions.

Ness Tirol
Laboratory Branch, MS 230
Division of Environmental Science and Technology
U. S. EPA Region 2
2890 Woodbridge Avenue
Edison, NJ 08837
phone (732) 321-4431
fax (732) 906-6165



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

**Region 2 Laboratory
2890 Woodbridge Avenue
Edison, New Jersey 08837
732-906-6886 Phone
732-906-6165 Fax**

PARTIAL

January 25, 2013

Smita Sumbaly
Weston Solutions Inc.
205 Campus Drive
Edison, NJ 08837

RE: Jewett White Lead - 1212042

Enclosed are the results of analyses for samples received by the laboratory on 01/24/2013. The signature below reflects the laboratory's approval of the reported results. If you have any questions concerning this report, please refer to Project Number 1212042 and contact John Birri by phone at 732-906-6886, or via Email at birri.john@epa.gov.

Sincerely,

John R. Bourbon
Chief, DESA/LB



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Jewett White Lead - 1212042

Project Number: 1212042

Project Narrative:

The National Environmental Laboratory Accreditation Conference Institute (NELAP) is a voluntary environmental laboratory accreditation association of State and Federal agencies. NELAP established and promoted a National Environmental Laboratory Accreditation Program (NELAP) that provides a uniform set of standards for the generation of environmental data that are of known and defensible quality. The EPA Region 2 Laboratory is NELAP accredited. The Laboratory tests that are accredited have met all the requirements established under the NELAP Standards.

Condition Comments

None

Comment(s):

None

Data Qualifier(s):

- U- The analyte was not detected at or above the Reporting Limit.
- J- The identification of the analyte is acceptable; the reported value is an estimate.
- K- The identification of the analyte is acceptable; the reported value may be biased high.
- L- The identification of the analyte is acceptable; the reported value may be biased low.
- NJ- There is presumptive evidence that the analyte is present; the analyte is reported as a tentative identification. The reported value is an estimate.

Reporting Limit(s):

The Laboratory was able to achieve the appropriate limits for each analyte requested.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Jewett White Lead - 1212042

Project Number: 1212042

SUMMARY REPORT FOR SAMPLES

Field ID	Laboratory ID	Matrix	Date Sampled	Date Received
S-049-4248-001	1301038-01	Solid	01/24/2013 09:20	01/24/2013 12:30
S-049-4248-002	1301038-02	Solid	01/24/2013 09:20	01/24/2013 12:30
S-050-1218-001	1301038-03	Solid	01/24/2013 09:27	01/24/2013 12:30
S-051-0612-001	1301038-04	Solid	01/24/2013 09:40	01/24/2013 12:30
S-052-1218-001	1301038-05	Solid	01/24/2013 09:55	01/24/2013 12:30
S-053-0006-001	1301038-06	Solid	01/24/2013 10:08	01/24/2013 12:30
S-054-0006-001	1301038-07	Solid	01/24/2013 11:15	01/24/2013 12:30

DRAFT REPORT

Reported: 1/25/2013

Page 2 of 5



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Jewett White Lead - 1212042

Project Number: 1212042

SUMMARY REPORT FOR METHODS

Analysis	Method	Certification	Matrix
Lead	EPA 200.7 / SOP C-109 Rev3.2	NELAP	Solid



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Jewett White Lead - 1212042

Project Number: 1212042

Analyte	Result	Qualifier	Reporting Limit	Units	Batch
Field ID: DRAFT: S-049-4248-001					
Sample ID: 1301038-01					
Metals ICP					
Lead	240		0.79	mg/kg dry	B301103
Field ID: DRAFT: S-049-4248-002					
Sample ID: 1301038-02					
Metals ICP					
Lead	250		0.79	mg/kg dry	B301103
Field ID: DRAFT: S-050-1218-001					
Sample ID: 1301038-03					
Metals ICP					
Lead	550		0.79	mg/kg dry	B301103
Field ID: DRAFT: S-051-0612-001					
Sample ID: 1301038-04					
Metals ICP					
Lead	320		0.75	mg/kg dry	B301103
Field ID: DRAFT: S-052-1218-001					
Sample ID: 1301038-05					
Metals ICP					
Lead	180		0.75	mg/kg dry	B301103
Field ID: DRAFT: S-053-0006-001					
Sample ID: 1301038-06					
Metals ICP					
Lead	210		0.74	mg/kg dry	B301103
Field ID: DRAFT: S-054-0006-001					
Sample ID: 1301038-07					
Metals ICP					
Lead	5600		0.77	mg/kg dry	B301103

DRAFT REPORT

Reported: 1/25/2013

Page 4 of 5



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Jewett White Lead - 1212042

Project Number: 1212042

DRAFT: Metals ICP - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B301103									
Blank (B301103-BLK1)									
Lead	— U	0.80	mg/kg wet						
Matrix Spike (B301103-MS1)									
Source: 1301038-01									
Lead	496	0.79	mg/kg dry	19.85	241	NR	75-125		
Matrix Spike Dup (B301103-MSD1)									
Source: 1301038-01									
Lead	487	4.0	mg/kg dry	19.85	241	NR	75-125	1.71	10
Reference (B301103-SRM1)									
Lead	75.1	0.80	mg/kg wet	76.81		97.8	81.3-118.7		
Reference (B301103-SRM2)									
Lead	73.5	0.80	mg/kg wet	76.67		95.9	81.3-118.7		

DRAFT REPORT

Reported: 1/25/2013

Page 5 of 5

US EPA Region 2
Analysis Request Form

Revised

Site Name: Jewett White Lead Site		CERCLIS ID: NYD980531545	Sampling Dates:
City/Town: Staten Island	Op Unit: 00	Site Spill ID: A218	Start: 10/3/2012 - 12/10/12
State: NY	Action Code: Removal - RV		Finish: 11/3/2012 - 1/3/12
EPA Project Manager:		Analytical Services Requestor:	Arrival Time:
First Name: Mark	First Name: Smita		<input checked="" type="radio"/> 0800-1200Hrs
Last Name: Gallo	Last Name: Sumbaly		<input checked="" type="radio"/> 1200-1600Hrs
Phone #: 7325854410		Phone #: 7325854410	<input checked="" type="radio"/> After 1600 Hrs
Organization: RST 2		Proposed Shipping Dates:	Saturday Delivery? <input type="checkbox"/> Yes
EPA Approved QAPP?: <input type="checkbox"/> Yes		Start: 10/3/2012 - 12/10/12	Finish: 11/3/2012 - 1/3/12
Date of QAPP Approval: not approved	Oversight/Split Sampling?: <input type="checkbox"/> Yes	Labs Used:	
E-mail for Lab Assignments:		E-mail for Data:	
S.Sumbaly@westonsolutions.com		S.Sumbaly@westonsolutions.com	
Brittney.Kelly@westonsolutions.com		Brittney.Kelly@westonsolutions.com	
Address for Hard Copy:		Address for Hard Copy:	
Weston Solutions, Inc.		Weston Solutions, Inc.	
1090 King Georges Post Road		1090 King Georges Post Road	
Edison, New Jersey 08837		Edison, New Jersey 08837	
Contaminants of Concern (if known): Lead			
Known Hazardous Waste Constituents:			
Special Requests & Reporting Requirements (attach if more space required):			
24-48 hours turnaround time require for the air samples preliminary data and 30 hours TAT for the soil samples preliminary data			
14 days TAT for validated data package require.			
approximately 10 soils samples will be submitted per day.			
48			
J. Bair 11/27/12			
FILE			

U.S. EPA Region 2 Analysis Request Form

[illegible]

**** See instruction sheet for explanation of Turnaround Time for validated data.**

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
SECRET//NOFORN																																																																																																			

USEPA Contract No. EP-W-06-072

Hand delivered: 1/24/13

CHAIN OF CUSTODY RECORD

Site: Jewett White Lead

Contact Name: Sasha Mallon

Contact Phone: 732-570-4997

No: 2-012413-114123-0037

Lab: DESA

Lab Contact: John Birri

Phone: 732-906-6886

Lab #	Sample #	Location	Collected	Matrix	Sample Time	Numb Cont	Container	Analyses	Preservative	MS/MSD
1301038-01	S-049-4248-001	S-049	1/24/2013	Soil	9:20	1	4 oz glass jar	Lead	4 C	Y
-02	S-049-4248-002	S-049	1/24/2013	Soil	9:20	1	4 oz glass jar	Lead	4 C	N
-03	S-050-1218-001	S-050	1/24/2013	Soil	9:27	1	4 oz glass jar	Lead	4 C	N
-04	S-051-0812-001	S-051	1/24/2013	Soil	9:40	1	4 oz glass jar	Lead	4 C	N
-05	S-052-1218-001	S-052	1/24/2013	Soil	9:55	1	4 oz glass jar	Lead	4 C	N
-06	S-053-0006-001	S-053	1/24/2013	Soil	10:08	1	4 oz glass jar	Lead	4 C	N
-07	S-054-0006-001	S-054	1/24/2013	Soil	11:15	1	4 oz glass jar	Lead	4 C	N
A.M. 1/24/13										

Special Instructions:

 SAMPLES TRANSFERRED FROM
 CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
all samples	A. Mallon	1/24/13								1/24/13	12:30

 Temp = 2.1°C on ice
 SA 1/24/13



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Sample Acceptance Checklist

Work Order: 1301038

Printed: 1/24/2013 1:43:58PM

Project: Jewett White Lead - 1212042

Project Number: 1212042

Client: Weston Solutions Inc.

Project Due Date: 01/25/2013

Report To:

Weston Solutions Inc.

Smita Sumbaly

205 Campus Drive

Edison, NJ 08837

Phone: (732) 585-4410

Fax: NONE

Program: Weston Solutions Inc.

Program Code: Removal - RV

Superfund Account Number: 13 T 02P-303DC6-A218-LA 00

WO Date Due: 01/25/2013 00:00 (1 day TAT)

Tracking No:

Received By: Zubair Ali

Date Received: 01/24/2013 12:30

Logged In By: Zubair Ali

Date Logged In: 01/24/2013 12:56

Sample Conditions:

Custody Seals (for Crim. Enf. Samples)	No	Proper Preservation and Holding Times?	Yes	Additional Sample comments?	Yes
Adequate Sample Volume	Yes	Labels Water Resistant with Indelible Ink	Yes	Samples hand delivered?	Yes
Appropriate Sample Containers	Yes	Shipping Documents Properly Signed & Dtd?	No	Chilling started for hand delivered samples?	Yes
No Signs of Damage or Contamination	Yes	COC/Sample Labels agree?	Yes		

Red Cooler 1 at Temp of 2 C

Analysis

Analysis Due Date

Hold Time

1301038-01 S-049-4248-001 [Solid] Sampled 01/24/2013 09:20 Eastern [1 Container]

E-Lead ICP 7/23/2013 12:00:00AM 180

1301038-02 S-049-4248-002 [Solid] Sampled 01/24/2013 09:20 Eastern [1 Container]

E-Lead ICP 7/23/2013 12:00:00AM 180

1301038-03 S-050-1218-001 [Solid] Sampled 01/24/2013 09:27 Eastern [1 Container]

E-Lead ICP 7/23/2013 12:00:00AM 180

1301038-04 S-051-0612-001 [Solid] Sampled 01/24/2013 09:40 Eastern [1 Container]

E-Lead ICP 7/23/2013 12:00:00AM 180

1301038-05 S-052-1218-001 [Solid] Sampled 01/24/2013 09:55 Eastern [1 Container]

E-Lead ICP 7/23/2013 12:00:00AM 180



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Sample Acceptance Checklist

Work Order: 1301038

Printed: 1/24/2013 1:43:58PM

Project: Jewett White Lead - 1212042

Client: Weston Solutions Inc.

Project Number: 1212042

Project Due Date: 01/25/2013

Analysis	Analysis Due Date	Hold Time
1301038-06 S-053-0006-001 [Solid] Sampled 01/24/2013 10:08 Eastern [1 Container]		
E-Lead ICP	7/23/2013 12:00:00AM	180
1301038-07 S-054-0006-001 [Solid] Sampled 01/24/2013 11:15 Eastern [1 Container]		
E-Lead ICP	7/23/2013 12:00:00AM	180

WorkOrder Comments

Michelle Schumacher

Reviewed By

1/24/2013

Date

01/24/2013

**EPA REGION 2 LABORATORY
OFFICIAL SAMPLE CONTROL AND REPOSITORY**

Dates	Project Info	Work Order	Report Recipient
Date/Time Received: 01/24/2013 12:30	Project Name: Jewett White Lead - 1212042	Work Order #: 1301038 # of Samples: 7	
Report Date: 01/24/2013 13:43	SDG Number/Project Number: P-1212042/1212042 Project Leader Smita Sumbaly		
	Decision Unit: Y206RV	# of Analyses: 7	

Samples/Work Distribution/Sample Type

ESAT

Metals(E) E-Lead ICP(7 Solid)

Customer Service Survey Results

Category	Ranking
Planning:	<input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 <input type="radio"/> 5 <input type="radio"/> NA
Timeliness:	<input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 <input type="radio"/> 5 <input type="radio"/> NA
Quality:	<input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 <input type="radio"/> 5 <input type="radio"/> NA
Communication:	<input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 <input type="radio"/> 5 <input type="radio"/> NA

Follow-Up? ☐ Yes ☒ No

Comments:



Jewett White Lead - 1212042

Ness Tirol to: Region2 OSCAR

Cc: Lisa Brassell, Roland Recto, Mark Gallo, John Bourbon, Gregory Santacroce

01/24/2013 11:54 AM

	Ness Tirol	Jewett White Lead - 1212042

Please be advised that we are expecting samples this afternoon (less than 10 samples) with 24 hr TAT.

~~~~~  
Ness Tirol  
Laboratory Branch, MS 230  
Division of Environmental Science and Technology  
U. S. EPA Region 2  
2890 Woodbridge Avenue  
Edison, NJ 08837  
phone (732) 321-4431  
fax (732) 906-6165  
~~~~~



Re: Resending :EPA Region 2 Partial Laboratory Report: Jewett White Lead Site Project

Ness Tirol to: Mark Gallo

Cc: Region2 OSCAR, Lisa Brassell, Roland Recto

01/24/2013 01:49 PM

Ness Tirol *Mark, Thank you for letting us know. This information can facilitate the process better and serve you better too.*

Mark,

Thank you for letting us know. This information can facilitate the process better and serve you better too.

Ness

~~~~~  
Ness Tirol  
Laboratory Branch, MS 230  
Division of Environmental Science and Technology  
U. S. EPA Region 2  
2890 Woodbridge Avenue  
Edison, NJ 08837  
phone (732) 321-4431  
fax (732) 906-6165  
~~~~~

Mark Gallo thanks Ness..... Andy is on his way back to office...

01/24/2013 12:05:31 PM

From: Mark Gallo/R2/USEPA/US
To: Ness Tirol/R2/USEPA/US@EPA
Date: 01/24/2013 12:05 PM
Subject: Re: Resending :EPA Region 2 Partial Laboratory Report: Jewett White Lead Site Project

thanks Ness..... Andy is on his way back to office with 7 total samples (6 plus 1 dup)

FYI... sample number S-54 was screening between 4,000 and 5,000..... I don't believe a note was made on the COC and not sure if at that level it will be an issue for you

Mark Gallo, Federal On-Scene Coordinator
US EPA Region 2
Removal Action Branch
phone: (732) 906-6871 fax: (732) 906-6182

Ness Tirol I am resending this report due to previous attach...

01/24/2013 11:48:33 AM

From: Ness Tirol/R2/USEPA/US
To: s.sumbaly@westonsolutions.com, Mark Gallo/R2/USEPA/US@EPA
Cc: Gregory Santacroce/R2/USEPA/US@EPA, John Birri/R2/USEPA/US@EPA, Sumy Cherukara/R2/USEPA/US@EPA, William Rickert/R2/USEPA/US@EPA, Renee Lettieri/R2/USEPA/US@EPA, John Bourbon/R2/USEPA/US@EPA, Yelena Khusid/R2/USEPA/US@EPA, Jim Ferretti/R2/USEPA/US@EPA
Date: 01/24/2013 11:48 AM
Subject: Resending :EPA Region 2 Partial Laboratory Report: Jewett White Lead Site Project

I am resending this report due to previous attachment included all the QC records. Again, I have attached a Laboratory Report (in .pdf format w/project narrative) and the R2EDD Version 3 EQUIS file (in .xls format) for the Jewett White Lead Site Project (Project# 1212042) with Work Order #1301035 accepted by the EPA Region 2 Laboratory. The Laboratory received the samples on 1/23/13. The data have been validated by the Laboratory. Please disregard the email sent today at 11:40am.

[attachment "1301035 P-1212042 FINAL 01 24 2013 1054.pdf" deleted by Mark Gallo/R2/USEPA/US]
[attachment "R2EDD_V3 1301035 P-1212042 FINAL 24 Jan 13 1054.xls" deleted by Mark Gallo/R2/USEPA/US]

In addition, we would like you to complete a very short project survey to share your experience as a customer for this project. The survey can be accessed using the link below and will take less than a minute of your time. Thank you.

EPA REGION 2 LAB PROJECT SURVEY - *Please Click Here to***

Take Survey****

Please let me know if you have any questions.

~~~~~  
Ness Tirol  
Laboratory Branch, MS 230  
Division of Environmental Science and Technology  
U. S. EPA Region 2  
2890 Woodbridge Avenue  
Edison, NJ 08837  
phone (732) 321-4431  
fax (732) 906-6165  
~~~~~



Re: Jewett samples
Ness Tirol to: Mark Gallo
Cc: "DESA Lab (receiving)", Lisa Brassell

01/24/2013 09:31 AM

	Mark Gallo	Jewett samples
	Ness Tirol	Mark, Thank you for letting us know. Your final report for the 2 sample

Mark,

Thank you for letting us know. Your final report for the 2 samples from yesterday will be available to you soon.

Ness

~~~~~  
Ness Tirol  
Laboratory Branch, MS 230  
Division of Environmental Science and Technology  
U. S. EPA Region 2  
2890 Woodbridge Avenue  
Edison, NJ 08837  
phone (732) 321-4431  
fax (732) 906-6165  
~~~~~

From: Mark Gallo/R2/USEPA/US
To: "Ness Tirol" <Tirol.Ness@epamail.epa.gov>, "DESA Lab (receiving)" <oscar.region2@epa.gov>
Date: 01/24/2013 09:19 AM
Subject: Jewett samples

Ness... We are looking at 6 to 10 samples today.. Hopefully early afternoon, trying our best to get in as early as possible

Mark Gallo

(732) 906-6871
msg sent via blackberry



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 2 Laboratory
2890 Woodbridge Avenue
Edison, New Jersey 08837
732-906-6886 Phone
732-906-6165 Fax

PRELIMINARY
PARTIAL

January 24, 2013

Smita Sumbaly
Weston Solutions Inc.
205 Campus Drive
Edison, NJ 08837

RE: Jewett White Lead - 1212042

Enclosed are the results of analyses for samples received by the laboratory on 01/24/2013. The signature below reflects the laboratory's approval of the reported results. If you have any questions concerning this report, please refer to Project Number 1212042 and contact John Birri by phone at 732-906-6886, or via Email at birri.john@epa.gov.

Sincerely,

John R. Bourbon
Chief, DESA/LB

FILE
DRAFT



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Jewett White Lead - 1212042

Project Number: 1212042

Project Narrative:

The National Environmental Laboratory Accreditation Conference Institute (TNI) is a voluntary environmental laboratory accreditation association of State and Federal agencies. TNI established and promoted a National Environmental Laboratory Accreditation Program (NELAP) that provides a uniform set of standards for the generation of environmental data that are of known and defensible quality. The EPA Region 2 Laboratory is NELAP accredited. The Laboratory tests that are accredited have met all the requirements established under the TNI Standards.

Condition Comments

None

Comment(s):

None

Data Qualifier(s):

- U- The analyte was not detected at or above the Reporting Limit.
- J- The identification of the analyte is acceptable; the reported value is an estimate.
- K- The identification of the analyte is acceptable; the reported value may be biased high.
- L- The identification of the analyte is acceptable; the reported value may be biased low.
- NJ- There is presumptive evidence that the analyte is present; the analyte is reported as a tentative identification. The reported value is an estimate.

Reporting Limit(s):

The Laboratory was able to achieve the appropriate limits for each analyte requested.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Jewett White Lead - 1212042

Project Number: 1212042

SUMMARY REPORT FOR SAMPLES

Field ID	Laboratory ID	Matrix	Date Sampled	Date Received
S-049-4248-001	1301038-01	Solid	01/24/2013 09:20	01/24/2013 12:30
S-049-4248-002	1301038-02	Solid	01/24/2013 09:20	01/24/2013 12:30
S-050-1218-001	1301038-03	Solid	01/24/2013 09:27	01/24/2013 12:30
S-051-0612-001	1301038-04	Solid	01/24/2013 09:40	01/24/2013 12:30
S-052-1218-001	1301038-05	Solid	01/24/2013 09:55	01/24/2013 12:30
S-053-0006-001	1301038-06	Solid	01/24/2013 10:08	01/24/2013 12:30
S-054-0006-001	1301038-07	Solid	01/24/2013 11:15	01/24/2013 12:30



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Jewett White Lead - 1212042

Project Number: 1212042

SUMMARY REPORT FOR METHODS

Analysis	Method	Certification	Matrix
Lead	EPA 200.7 / SOP C-109 Rev3.2	NELAP	Solid



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Jewett White Lead - 1212042

Project Number: 1212042

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: DRAFT: S-049-4248-001				Sample ID: 1301038-01
Metals ICP				
Lead	230		0.76	mg/kg dry
Field ID: DRAFT: S-049-4248-002				Sample ID: 1301038-02
Metals ICP				
Lead	240		0.77	mg/kg dry
Field ID: DRAFT: S-050-1218-001				Sample ID: 1301038-03
Metals ICP				
Lead	540		0.78	mg/kg dry
Field ID: DRAFT: S-051-0612-001				Sample ID: 1301038-04
Metals ICP				
Lead	320		0.74	mg/kg dry
Field ID: DRAFT: S-052-1218-001				Sample ID: 1301038-05
Metals ICP				
Lead	180		0.74	mg/kg dry
Field ID: DRAFT: S-053-0006-001				Sample ID: 1301038-06
Metals ICP				
Lead	210		0.74	mg/kg dry
Field ID: DRAFT: S-054-0006-001				Sample ID: 1301038-07

DRAFT REPORT

Reported: 1/24/2013

Page 4 of 5



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Jewett White Lead - 1212042

Project Number: 1212042

Analyte	Result	Qualifier	Reporting Limit	Units
---------	--------	-----------	--------------------	-------

Field ID: DRAFT: S-054-0006-001

Sample ID: 1301038-07

Metals ICP

Lead	5400	0.74	mg/kg dry
------	------	------	-----------



EPA Region 2 Partial Preliminary Laboratory Report: Jewett White Lead Site Project

Ness Tirol to: s.sumbaly, Mark Gallo

01/24/2013 06:11 PM

Cc: Gregory Santacroce, John Birri, Sumy Cherukara, William Rickert, Renee Lettieri, John Bourbon, Yelena Khusid, Jim Ferretti

From: Ness Tirol/R2/USEPA/US

To: s.sumbaly@westonsolutions.com, Mark Gallo/R2/USEPA/US@EPA

Cc: Gregory Santacroce/R2/USEPA/US@EPA, John Birri/R2/USEPA/US@EPA, Sumy Cherukara/R2/USEPA/US@EPA, William Rickert/R2/USEPA/US@EPA, Renee Lettieri/R2/USEPA/US@EPA, John Bourbon/R2/USEPA/US@EPA, Yelena

I have attached a Partial Preliminary Laboratory Report (in .pdf format w/project narrative) for the Jewett White Lead Site Project (Project# 1212042) with Work Order #1301038 accepted by the EPA Region 2 Laboratory. The Laboratory received the samples on 1/24/13. The data have NOT been validated due to unavailability of % solids data. The data is "as is basis". The validated report will be available to you by noon tomorrow.



1301038 DRAFT P-1212042 DRAFT 01 24 2013 1804.pdf

In addition, we would like you to complete a very short project survey to share your experience as a customer for this project. The survey can be accessed using the link below and will take less than a minute of your time. Thank you.

EPA REGION 2 LAB PROJECT SURVEY - **Please Click Here to Take Survey******

Please let me know if you have any questions.

~~~~~  
Ness Tirol  
Laboratory Branch, MS 230  
Division of Environmental Science and Technology  
U. S. EPA Region 2  
2890 Woodbridge Avenue  
Edison, NJ 08837  
phone (732) 321-4431  
fax (732) 906-6165  
~~~~~



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

**Region 2 Laboratory
2890 Woodbridge Avenue
Edison, New Jersey 08837
732-906-6886 Phone
732-906-6165 Fax**

PARTIAL

January 25, 2013

Smita Sumbaly
Weston Solutions Inc.
205 Campus Drive
Edison, NJ 08837

RE: Jewett White Lead - 1212042

Enclosed are the results of analyses for samples received by the laboratory on 01/24/2013. The signature below reflects the laboratory's approval of the reported results. If you have any questions concerning this report, please refer to Project Number 1212042 and contact John Birri by phone at 732-906-6886, or via Email at birri.john@epa.gov.

Sincerely,

A handwritten signature in cursive script, appearing to read "John R. Bourbon", is written over a horizontal line.

John R. Bourbon
Chief, DESA/LB



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Jewett White Lead - 1212042

Project Number: 1212042

Project Narrative:

The National Environmental Laboratory Accreditation Conference Institute (TNI) is a voluntary environmental laboratory accreditation association of State and Federal agencies. TNI established and promoted a National Environmental Laboratory Accreditation Program (NELAP) that provides a uniform set of standards for the generation of environmental data that are of known and defensible quality. The EPA Region 2 Laboratory is NELAP accredited. The Laboratory tests that are accredited have met all the requirements established under the TNI Standards.

Condition Comments

None

Comment(s):

None

Data Qualifier(s):

- U- The analyte was not detected at or above the Reporting Limit.
- J- The identification of the analyte is acceptable; the reported value is an estimate.
- K- The identification of the analyte is acceptable; the reported value may be biased high.
- L- The identification of the analyte is acceptable; the reported value may be biased low.
- NJ- There is presumptive evidence that the analyte is present; the analyte is reported as a tentative identification. The reported value is an estimate.

Reporting Limit(s):

The Laboratory was able to achieve the appropriate limits for each analyte requested.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Jewett White Lead - 1212042

Project Number: 1212042

SUMMARY REPORT FOR SAMPLES

Field ID	Laboratory ID	Matrix	Date Sampled	Date Received
S-049-4248-001	1301038-01	Solid	01/24/2013 09:20	01/24/2013 12:30
S-049-4248-002	1301038-02	Solid	01/24/2013 09:20	01/24/2013 12:30
S-050-1218-001	1301038-03	Solid	01/24/2013 09:27	01/24/2013 12:30
S-051-0612-001	1301038-04	Solid	01/24/2013 09:40	01/24/2013 12:30
S-052-1218-001	1301038-05	Solid	01/24/2013 09:55	01/24/2013 12:30
S-053-0006-001	1301038-06	Solid	01/24/2013 10:08	01/24/2013 12:30
S-054-0006-001	1301038-07	Solid	01/24/2013 11:15	01/24/2013 12:30



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Jewett White Lead - 1212042

Project Number: 1212042

SUMMARY REPORT FOR METHODS

Analysis	Method	Certification	Matrix
Lead	EPA 200.7 / SOP C-109 Rev3.2	NELAP	Solid



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Jewett White Lead - 1212042

Project Number: 1212042

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: S-049-4248-001				Sample ID: 1301038-01
Metals ICP				
Lead	240		0.79	mg/kg dry
Field ID: S-049-4248-002				Sample ID: 1301038-02
Metals ICP				
Lead	250		0.79	mg/kg dry
Field ID: S-050-1218-001				Sample ID: 1301038-03
Metals ICP				
Lead	550		0.79	mg/kg dry
Field ID: S-051-0612-001				Sample ID: 1301038-04
Metals ICP				
Lead	320		0.75	mg/kg dry
Field ID: S-052-1218-001				Sample ID: 1301038-05
Metals ICP				
Lead	180		0.75	mg/kg dry
Field ID: S-053-0006-001				Sample ID: 1301038-06
Metals ICP				
Lead	210		0.74	mg/kg dry
Field ID: S-054-0006-001				Sample ID: 1301038-07



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Jewett White Lead - 1212042

Project Number: 1212042

Analyte	Result	Qualifier	Reporting Limit	Units
---------	--------	-----------	-----------------	-------

Field ID: S-054-0006-001

Sample ID: 1301038-07

Metals ICP

Lead	5600	0.77	mg/kg dry
------	------	------	-----------



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 2 Laboratory
2890 Woodbridge Avenue
Edison, New Jersey 08837
732-906-6886 Phone
732-906-6165 Fax

PARTIAL

Approval Form / Project Checklist

Project Number: 1212042

Report Date: February 1, 2013

Project/Survey Name: Jewett White Lead - 1212042

Addressee: Weston Solutions Inc.

CC: Mark Gallo

Smita Sumbaly

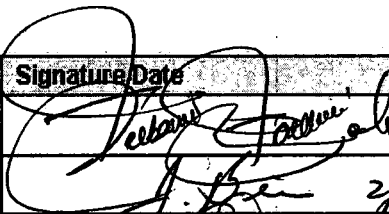
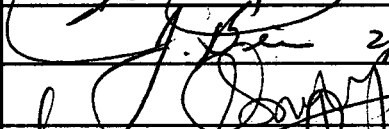
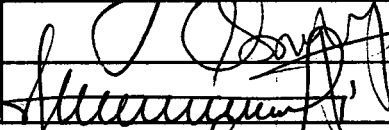
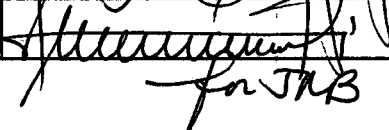
1090 King Georges Post Road, Suite 201

Edison, NJ 08837

Comments

* Partial Draft Report generated with W01301061 # 2/1/13

Approvals

	NAME:	Signature/Date
OSCAR Report Coord.	Trubair, F. Ali	 2/1/13
Special Projects Coord.	John Birri	 2/1/13
Laboratory QAO	Sunny Cherukara	 2/1/13
Laboratory Branch Chief	John Bourbon	 2/1/13 for JTB



Region 2 Laboratory
2890 Woodbridge Avenue
Edison , New Jersey 08837
732-906-6886 Phone
732-906-6165 Fax

Project Number: 1212042

Project File Information

Page 2 of 2

US EPA Region 2
Analysis Request Form

Revised

CLP Case/Project #:		Date Received by RSCC:		Date Cancelled:	
Site Name: Jewett White Lead Site		CERCLIS ID: NYD980531545		Sampling Dates:	
City/Town: Staten Island		Op Unit: 00 Site Spill ID: A218		Start: 10/3/2012 - 12/10/12	
State: NY		Action Code: Removal - RV		Finish: 11/3/2012 - 1/3/12	
EPA Project Manager:		Analytical Services Requestor:		Arrival Time:	
First Name: Mark		First Name: Smita		<input type="radio"/> 0800-1200Hrs	
Last Name: Gallo		Last Name: Sumbaly		<input type="radio"/> 1200-1600Hrs	
		Phone #: 7325854410		<input checked="" type="radio"/> After 1600 Hrs	
		Organization: RST 2		Proposed Shipping Dates:	
EPA Approved QAPP?: <input type="checkbox"/> Yes				Start: 10/3/2012 - 12/10/12	
Date of QAPP Approval: not approved		Oversight/Spill Sampling?: <input type="checkbox"/> Yes		Finish: 11/3/2012 1/3/12	
		(e.g. PRP/Fed Facility)		Saturday Delivery? <input type="checkbox"/> Yes	
E-mail for Lab Assignments:		E-mail for Data:		Address for Hard Copy:	
S.Sumbaly@westonsolutions.com		S.Sumbaly@westonsolutions.com		Weston Solutions, Inc.	
Brittney.Kelly@westonsolutions.com		Brittney.Kelly@westonsolutions.com		1090 King Georges Post Road	
				Edison, New Jersey 08837	
Contaminants of Concern (if known): Lead					
Known Hazardous Waste Constituents:					
Special Requests & Reporting Requirements (attach if more space required):					
24-48 hours turnaround time require for the air samples preliminary data and 24 hours TAT for the soil samples preliminary data					
14 days TAT for validated data package require.					
approximately 10 soils samples will be submitted per day.					
48					
J. Bri 11/27/12					
FILE					
** Shaded area for RSCC use only **					

U.S. EPA Region 2 Analysis Request Form

[illegible]

**** See instruction sheet for explanation of Turnaround Time for validated data.**

Accepted by:		Date Accepted:	
** Shaded area for RSCC use only **			

USEPA Contract No. EP-W-06-072

Hand delivered: 1/30/13

CHAIN OF CUSTODY RECORD

Site: Jewett White Lead

Contact Name: Sasha Mallon

Contact Phone: 732-570-4987

No: 2-013013-112815-0043

Lab: DESA

Lab Contact: John Birri

Phone: 732-906-6886[illegible]

Special Instructions: Please note sample S-061-0008-001 screened above 2,000 ppb Pb.

SAMPLES TRANSFERRED FROM	
1	2
3	4
5	6
7	8
9	10
11	12
13	14
15	16
17	18
19	20
21	22
23	24
25	26
27	28
29	30
31	32
33	34
35	36
37	38
39	40
41	42
43	44
45	46
47	48
49	50
51	52
53	54
55	56
57	58
59	60
61	62
63	64
65	66
67	68
69	70
71	72
73	74
75	76
77	78
79	80
81	82
83	84
85	86
87	88
89	90
91	92
93	94
95	96
97	98
99	100

CHAIN OF CUSTODY #

[illegible]

17.7°C - on ice - hand-delivery



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Sample Acceptance Checklist

Work Order: 1301061

Printed: 1/30/2013 2:18:34PM

Project: Jewett White Lead - 1212042
Project Number: 1212042

Client: Weston Solutions Inc.
Project Due Date: 02/01/2013

Report To:

Weston Solutions Inc.
Smita Sumbaly
205 Campus Drive
Edison, NJ 08837
Phone: (732) 585-4410
Fax: NONE

Program: Weston Solutions Inc.
Program Code: Removal - RV
Superfund Account Number: 13 T 02P-303DC6-A218-LA 00 ✓

WO Date Due: 02/01/2013 00:00 (2 day TAT) ✓

Tracking No:

Received By: Michelle Schwartz

Date Received: 01/30/2013 13:40

Logged In By: Erica McNally

Date Logged In: 01/30/2013 14:09

Sample Conditions:

Custody Seals (for Crim. Enf. Sample)	No	✓	Proper Preservation and Holding Times?	Yes	✓	Additional Sample comments?	No	✓
Adequate Sample Volume	Yes	✓	Labels Water Resistant with Indelible Ink	Yes	✓	Samples hand delivered?	Yes	✓
Appropriate Sample Containers	Yes	✓	Shipping Documents Properly Signed & Dtd?	No	✓	Chilling started for hand delivered samples?	Yes	✓
No Signs of Damage or Contamination	Yes	✓	COC/Sample Labels agree?	Yes	✓			

Blue Cooler 1 at Temp of 18 C ✓

Analysis

Analysis Due Date

Hold Time

1301061-01 S-061-0006-001 [Solid] Sampled 01/30/2013 10:50 Eastern [1 Container]

Lead ICP 7/29/2013 12:00:00AM 180

1301061-02 S-061-0006-002 [Solid] Sampled 01/30/2013 10:50 Eastern [1 Container]

Lead ICP 7/29/2013 12:00:00AM 180

WorkOrder Comments

Copy/Relog from 1301048.

Reviewed By

1/30/2013
Date

01/30/2013

**EPA REGION 2 LABORATORY
OFFICIAL SAMPLE CONTROL AND REPOSITORY**

Dates	Project Info	Work Order	Report Recipient
Date/Time Received: 01/30/2013 13:40	Project Name: Jewett White Lead - 1212042	Work Order #: 1301061 # of Samples: 2	
Report Date: 01/30/2013 14:13	SDG Number/Project Number: P-1212042/1212042 Project Leader Smita Sumbaly		
	Decision Unit: Y206RV	# of Analyses: 2	

Samples/Work Distribution/Sample Type

EPA

Metals Lead ICP(2 Solid)

Customer Service Survey Results

Category	Ranking					
Planning:	<input type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4	<input type="radio"/> 5	<input type="radio"/> NA
Timeliness:	<input type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4	<input type="radio"/> 5	<input type="radio"/> NA
Quality:	<input type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4	<input type="radio"/> 5	<input type="radio"/> NA
Communication:	<input type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4	<input type="radio"/> 5	<input type="radio"/> NA

Follow-Up? ☐ Yes ☒ No

Comments:



Re: Fw: Jewett Samples
Ness Tirol to: Michelle Schwartz
Cc: Erica McNally, John Birri, Lisa Brassell, Zubair Ali, Mark Gallo

01/30/2013 02:10 PM

TAT - 48 hrs. Due by Friday, 2/1/13

Ness Tirol
Laboratory Branch, MS 230
Division of Environmental Science and Technology
U. S. EPA Region 2
2890 Woodbridge Avenue
Edison, NJ 08837
phone (732) 321-4431
fax (732) 906-6165

Michelle Schwartz Sample were received a few minutes ago. What... 01/30/2013 01:50:25 PM

From: Michelle Schwartz/R2/USEPA/US
To: Ness Tirol/R2/USEPA/US@EPA, John Birri/R2/USEPA/US@EPA
Cc: Zubair Ali/R2/USEPA/US@EPA, Lisa Brassell/R2/USEPA/US@EPA, Erica McNally/R2/USEPA/US@EPA, Michelle Schwartz/R2/USEPA/US@EPA
Date: 01/30/2013 01:50 PM
Subject: Fw: Jewett Samples

Sample were received a few minutes ago. What is the exact TAT we should use?

Thank you,

Michelle L. Schwartz
Alion Science and Technology
ESAT Contract No. EP-W-07-083
(732) 906-6186

----- Forwarded by Michelle Schwartz/R2/USEPA/US on 01/30/2013 01:49 PM -----

Jewett Samples

Mark Gallo to: Ness Tirol, DESA Lab (receiving)

01/30/2013 11:18 AM

From: Mark Gallo/R2/USEPA/US
To: "Ness Tirol" <Tirol.Ness@epamail.epa.gov>, "DESA Lab (receiving)" <oscar.region2@epa.gov>

We will be bringing in two samples later today. there is no rush on this sample as it is a sidewall sample.

Mark Gallo
(732) 906-6871

msg sent via blackberry



Jewett White Lead Project 1212042

Ness Tirol to: Region2 OSCAR, Lisa Brassell

01/11/2013 03:58 PM

Cc: Roland Recto, John Bourbon, Gregory Santacroce, William Rickert,
Mark Gallo, Renee Lettieri

Ness Tirol

Jewett White Lead Project 1212042

Please be advised that there will be three (3) soil samples coming in tonight for this project for Lead (Pb). Please assign this task of sample preparation and analysis for Lead to ESAT starting tonight until the end of this month. For these 3 soil samples coming in tonight, the TAT due date will be on Tuesday, 1/15/13, morning. For other succeeding sampling events, the TAT will be 24-hr.

We will evaluate the situation for the week of February 4th and onwards.

Please let me know if you have questions.

Ness Tirol
Laboratory Branch, MS 230
Division of Environmental Science and Technology
U. S. EPA Region 2
2890 Woodbridge Avenue
Edison, NJ 08837
phone (732) 321-4431
fax (732) 906-6165



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

**Region 2 Laboratory
2890 Woodbridge Avenue
Edison, New Jersey 08837
732-906-6886 Phone
732-906-6165 Fax**

PARTIAL

February 01, 2013

Smita Sumbaly
Weston Solutions Inc.
205 Campus Drive
Edison, NJ 08837

RE: Jewett White Lead - 1212042

Enclosed are the results of analyses for samples received by the laboratory on 01/30/2013. The signature below reflects the laboratory's approval of the reported results. If you have any questions concerning this report, please refer to Project Number 1212042 and contact John Birri by phone at 732-906-6886, or via Email at birri.john@epa.gov.

Sincerely,

John R. Bourbon
Chief, DESA/LB

DRAFT



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Jewett White Lead - 1212042

Project Number: 1212042

1212042-1



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Jewett White Lead - 1212042

Project Number: 1212042

SUMMARY REPORT FOR SAMPLES

Field ID	Laboratory ID	Matrix	Date Sampled	Date Received
S-061-0006-001	1301061-01	Solid	01/30/2013 10:50	01/30/2013 13:40
S-061-0006-002	1301061-02	Solid	01/30/2013 10:50	01/30/2013 13:40



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Jewett White Lead - 1212042

Project Number: 1212042

SUMMARY REPORT FOR METHODS

Analysis	Method	Certification	Matrix
Lead	EPA 200.7 / SOP C-109 Rev3.2	NELAP	Solid



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Jewett White Lead - 1212042

Project Number: 1212042

Analyte	Result	Qualifier	Reporting Limit	Units	Batch
---------	--------	-----------	-----------------	-------	-------

Field ID: DRAFT: S-061-0006-001

Sample ID: 1301061-01

Metals ICP

Lead

3000

0.78 mg/kg dry B301149

Field ID: DRAFT: S-061-0006-002

Sample ID: 1301061-02

Metals ICP

Lead

2900

0.79 mg/kg dry B301149

DRAFT REPORT

Reported: 2/1/2013

Page 4 of 5



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Jewett White Lead - 1212042

Project Number: 1212042

DRAFT: Metals ICP - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B301149									
Blank (B301149-BLK1)									
Lead	— U	0.78	mg/kg wet						
Matrix Spike (B301149-MS1)									
Source: 1301061-01									
Lead	3010	0.78	mg/kg dry	19.45	3050	NR	75-125		
Matrix Spike Dup (B301149-MSD1)									
Source: 1301061-01									
Lead	3060	3.9	mg/kg dry	19.45	3050	45.9	75-125	1.47	10
Reference (B301149-SRM1)									
Lead	73.6	0.80	mg/kg wet	76.90		95.7	81.3-118.7		
Reference (B301149-SRM2)									
Lead	71.6	0.79	mg/kg wet	76.90		93.1	81.3-118.7		



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 2 Laboratory
2890 Woodbridge Avenue
Edison, New Jersey 08837
732-906-6886 Phone
732-906-6165 Fax

PARTIAL

February 01, 2013

Smita Sumbaly
Weston Solutions Inc.
205 Campus Drive
Edison, NJ 08837

RE: Jewett White Lead - 1212042

Enclosed are the results of analyses for samples received by the laboratory on 01/30/2013. The signature below reflects the laboratory's approval of the reported results. If you have any questions concerning this report, please refer to Project Number 1212042 and contact John Birri by phone at 732-906-6886, or via Email at birri.john@epa.gov.

Sincerely,

A handwritten signature in black ink, appearing to read "John R. Bourbon", is written over a horizontal line.

John R. Bourbon
Chief, DESA/LB



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Jewett White Lead - 1212042

Project Number: 1212042

Project Narrative:

The National Environmental Laboratory Accreditation Conference Institute (NELAP) is a voluntary environmental laboratory accreditation association of State and Federal agencies. NELAP established and promoted a National Environmental Laboratory Accreditation Program (NELAP) that provides a uniform set of standards for the generation of environmental data that are of known and defensible quality. The EPA Region 2 Laboratory is NELAP accredited. The Laboratory tests that are accredited have met all the requirements established under the NELAP Standards.

Condition Comments

None

Comment(s):

None

Data Qualifier(s):

- U- The analyte was not detected at or above the Reporting Limit.
- J- The identification of the analyte is acceptable; the reported value is an estimate.
- K- The identification of the analyte is acceptable; the reported value may be biased high.
- L- The identification of the analyte is acceptable; the reported value may be biased low.
- NJ- There is presumptive evidence that the analyte is present; the analyte is reported as a tentative identification. The reported value is an estimate.

Reporting Limit(s):

The Laboratory was able to achieve the appropriate limits for each analyte requested.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Jewett White Lead - 1212042

Project Number: 1212042

SUMMARY REPORT FOR SAMPLES

Field ID	Laboratory ID	Matrix	Date Sampled	Date Received
S-061-0006-001	1301061-01	Solid	01/30/2013 10:50	01/30/2013 13:40
S-061-0006-002	1301061-02	Solid	01/30/2013 10:50	01/30/2013 13:40



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Jewett White Lead - 1212042

Project Number: 1212042

SUMMARY REPORT FOR METHODS

Analysis	Method	Certification	Matrix
Lead	EPA 200.7 / SOP C-109 Rev3.2	NELAP	Solid



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Jewett White Lead - 1212042

Project Number: 1212042

Analyte	Result	Qualifier	Reporting Limit	Units
---------	--------	-----------	-----------------	-------

Field ID: S-061-0006-001

Sample ID: 1301061-01

Metals ICP

Lead	3000		0.78	mg/kg dry
------	------	--	------	-----------

Field ID: S-061-0006-002

Sample ID: 1301061-02

Metals ICP

Lead	2900		0.79	mg/kg dry
------	------	--	------	-----------



REGION 2 LABORATORY
RAW DATA CROSS-REFERENCE & FILE LOCATION SHEET

PROJECT NO. 1301045 SITE NAME Jewett White SAMPLE RECEIPT DATE _____

LOGBOOK LOCATION			BACKUP DATA LOCATION	
ANALYTE	LOGBOOK ID	PAGE #	PROJECT NO.	SITE NAME
JCP	EPA IRIS-5	65		



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

1/28/2013

ICP-AES QA/QC Checklist for SEQUENCE S301053

Jewett White Lead - 1212042

1301048

1301045

Analysis

Lead ICP

Matrix

Solid

Method

PA 200.7 / SOP C-109 Rev3

Sample result data

Minimum of 1 Standard + Blank?

YES

Analyst Initials

WR

Date

01/28/2013

Continuing Calibration

Correlation Coefficients > 0.995 for each element for > 2 point calibration?

YES

Analyst Initials

WR

Date

01/28/2013

Initial Calibration check

ICV and ICB run immediately after Calibration Standards?

YES

Analyst Initials

WR

Date

01/28/2013

ICV recoveries within $\pm 5\%$ DW/NPDES, $\pm 10\%$ other programs?

YES

WR

01/28/2013

ICB < Reporting Limit?

YES

WR

01/28/2013

RL Low Level recovery $\pm 30\%$?

YES

WR

01/28/2013

2RL Low Level Recovery $\pm 30\%$?

YES

WR

01/28/2013

Continuing Calibration

CCV and CCB run at least after every ten samples & at end of run?

YES

Analyst Initials

WR

Date

01/28/2013

CCV recoveries within $\pm 10\%$ DW/NPDES; $\pm 20\%$ other programs?

YES

WR

01/28/2013

CCBs < Reporting Limit?

YES

WR

01/28/2013

* = Automated Response from Promium



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

1/28/2013

ICP-AES QA/QC Checklist for SEQUENCE S301053

Jewett White Lead - 1212042

1301048
1301045

Analysis

Lead ICP

Matrix

Solid

Method

PA 200.7 / SOP C-109 Rev3

Sample result data

IOS < Reporting Limit for all elements?

YES

Analyst Initials

WR

Date

01/28/2013

Performance check

RSD for all QC results > Reporting Limit within 20%?

YES

Analyst Initials

WR

Date

01/28/2013

Blank data

Prep Blank < Reporting Limit?

YES *

Analyst Initials

WR

Date

01/28/2013

If no, is sample analyte concentration > 10X the Prep Blank concentration?

NA

WR

01/28/2013

Laboratory control sample

Average Recovery of 2 Aqueous LCSs within $\pm 15\%$ DW; NPDES, $\pm 20\%$ other programs, $\pm 25\%$ or within vendor specs for Solid LCSs, $\pm 50\%$ for tissue matrix?

YES *

Analyst Initials

WR

Date

01/28/2013

RPD of the 2 LCSs <20% for Aqueous matrix, <25% for Solid matrix, <50% for tissue matrix?

YES *

WR

01/28/2013

Matrix Spike, Matrix Spike Dup data

Recovery of the MS $\pm 20\%$ for aqueous matrix; $\pm 25\%$ for solid matrix; $\pm 50\%$ for sludge and tissue matrix?

YES *

Analyst Initials

WR

Date

01/28/2013

If no, is analyte concentration > 1.0 X the spike concentration?

NA

WR

01/28/2013

RPD between the MS & Serial Dilution < 10%?

YES *

WR

01/28/2013

Sample result data

Analyst Initials

Date

* = Automated Response from Premium



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

1/28/2013

ICP-AES QA/QC Checklist for SEQUENCE S301053

Jewett White Lead - 1212042

1301048

1301045

Analysis

Lead ICP

Matrix

Solid

Method

PA 200.7 / SOP C-109 Rev3

% RSD for all sample results > Reporting Limit within 20%?

YES

WR

01/28/2013

Holding time check

Analyst Initials

Date

All samples analyzed within the prescribed holding time?

YES *

WR

01/28/2013

Sample result data

Analyst Initials

Date

Any QA/QC qualifiers or special comments required?

NO

WR

01/28/2013

Documentation

Analyst Initials

Date

Sample Preparation Log Book entries completed?

NA

WR

01/28/2013

Instrument Analysis Log Book entries completed?

YES

WR

01/28/2013

Percent Solids Log Book info entries completed?

YES

WR

01/28/2013

pH Log Book Log Book info entries completed?

NA

WR

01/28/2013

Final Review

Analyst Initials

Date

Example calculation present and correct?

YES *

WR

01/28/2013

Peer reviewed? Date and person responsible.

YES *

RL

01/28/2013

* = Automated Response from Promium



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

ANALYSIS SEQUENCE
S301053

Instrument: Thermo Iris Intrepid

Printed: 1/25/2013 4:24:12PM

Project Name	Lab Number	Analysis	STD ID
	S301053-CAL1	QC	D3A1719
	S301053-CAL2	QC	D2I2023
	S301053-CAL3	QC	D2J0304
	S301053-ICV1	QC	D2L1716
	S301053-ICB1	QC	D3A1719
	S301053-LCV1	QC	D2L1717
	S301053-LCV2	QC	D2L1718
	S301053-IFA1	QC	D3A0901
	B301115-BLK1	QC	
	B301115-SRM1	QC	
	B301115-SRM2	QC	
Jewett White Lead - 1212042	1301045-01	Lead ICP	
	B301115-MS1	QC	
	B301115-MSD1	QC	
Jewett White Lead - 1212042	1301045-02	Lead ICP	
Jewett White Lead - 1212042	1301045-03	Lead ICP	
Jewett White Lead - 1212042	1301045-04	Lead ICP	
	S301053-CCV1	QC	D2L1716
	S301053-CCB1	QC	D3A1719
Jewett White Lead - 1212042	1301045-05	Lead ICP	
Jewett White Lead - 1212042	1301045-06	Lead ICP	
Jewett White Lead - 1212042	1301048-01	Lead ICP	
Jewett White Lead - 1212042	1301048-02	Lead ICP	
	S301053-CCV2	QC	D2L1716
	S301053-CCB2	QC	D3A1719
	S301053-LCV3	QC	D2L1717
	S301053-LCV4	QC	D2L1718
	S301053-IFA2	QC	D3A0901

Thermo Intrepid II IRIS ICAP Analyzer Logbook
Serial #12816

Sop # C-109 DW-5

File: 012513J

Project Name	Project Number	Sample Numbers	Scan Type
Jewett white	1212042	1301045-01 to 06	Pb
		1301048-01 & 02	Pb

TAL: Ag, Al, As, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, K, Mg, Mn, Na, Ni, Pb, Se, Sb, Sr, Ti, V, Zn

SLUDGES: As, Cd, Cr, Cu, Mo, Ni, Pb, Se, Zn

TCLP: Ag, As, Ba, Cd, Cr, Pb, Se

METALS FINISHING:

Ag, Cd, Cr, Cu, Ni, Pb, Zn

Premium Batch #	Premium Sequence #	Method
B301115	S301053	EPA-ICP-P /
		EPA-ICP-P /

Torch Cleaned Y / <input checked="" type="radio"/> N	
Pump Tubing Changed Y / <input checked="" type="radio"/> N	

Comments:

Date of Analysis: 1/25/13

Signature of Analyst(s):

William Pickett



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Metals Sample Prep
Batch ID: B301115

Prepared by: WR
Prepared on: 01/25/2013

Matrix Type: Solid
Method (SOP)

EPA 200.7 / SOP C-109 F

DigiBloc ID: Bob
Temp (Deg C) Start/Final: 95.0/94.9

Standards and Reagents

Standard	Description	Expiration Date
D2C0708	HNO3, Concentrated	03/05/2016
D2F0423	Metals in Soil Certified Reference Material	10/31/2015
D2H2417	HCL, Concentrated	07/31/2017
D2K2820	ICP CAL 1 Trace Spike 250 mg/L	11/30/2013
D2K2822	ICP CAL 2 Minerals Spike 250 mg/L	11/30/2013

Project Name	Sample ID	pH < 2	Balance	Filtered	Initial Wt(g)/ Vol(ml)	Final Vol(ml)	Spike 1 ID	Spike 1 Wt(mg)/ Vol(ul)	Spike 2 ID	Spike 2 Wt(mg)/ Vol(ul)	Source ID
Jewett White Lead - 1212042	1301045-01	NA	29	Yes	0.5983	50					
	1301045-02	NA	29	Yes	0.5999	50					
	1301045-03	NA	29	Yes	0.6667	50					
	1301045-04	NA	29	Yes	0.5912	50					
	1301045-05	NA	29	Yes	0.6102	50					
	1301045-06	NA	29	Yes	0.5906	50					
	1301048-01	NA	29	Yes	0.5911	50					
	1301048-02	NA	29	Yes	0.6069	50					
	B301115-BLK1	NA	29	Yes	5	50					
	B301115-MS1	NA	29	Yes	0.5917	50	D2K2820	40	D2K2822	1000	1301045-01
	B301115-MSD1	NA	29	Yes	0.5917	50	D2K2820	40	D2K2822	1000	1301045-01
	B301115-SRM1	NA	29	Yes	0.5291	50	D2F0423	529.1			



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Metals Sample Prep
Batch ID: B301115

Prepared by: WR
Prepared on: 01/25/2013

Matrix Type: Solid
Method (SOP)
EPA 200.7 / SOP C-109 F

DigiBloc ID: Bob
Temp (Deg C) Start/Final: 95.0/94.9

Standards and Reagents

<u>Standard</u>	<u>Description</u>	<u>Expiration Date</u>
D2C0708	HNO ₃ , Concentrated	03/05/2016
D2F0423	Metals in Soil Certified Reference Material	10/31/2015
D2H2417	HCL, Concentrated	07/31/2017
D2K2820	ICP CAL 1 Trace Spike 250 mg/L	11/30/2013
D2K2822	ICP CAL 2 Minerals Spike 250 mg/L	11/30/2013

Project Name	Sample ID	Balance	Initial Wt(g)/ Vol(ml)	Final Vol(ml)	Spike 1 ID	Spike 1 Wt(mg)/ Vol(ul)	Spike 2 ID	Spike 2 Wt(mg)/ Vol(ul)	Source ID
	B301115-SRM2 NA	29 Yes	0.5337	50	D2F0423	533.7			

Comments:

Element, Wavelength and Order	Date of Fit	Type of Fit	Weighting	n (Exponent)	Correlation	Status
Ag 328.068 {102}	01/25/2013 14:58:45	Linear	1/Conc	1.000000	0.999983	OK
Al 396.152 {85}	01/25/2013 14:58:45	Linear	1/Conc	1.000000	0.999979	OK
As 189.042 {177}	01/25/2013 14:58:45	Linear	1/Conc	1.000000	0.999999	OK
B 208.959 {161}	01/25/2013 14:58:45	Linear	1/Conc	1.000000	0.999987	OK
Ba 455.403 {74}	01/25/2013 14:58:45	Linear	1/Conc	1.000000	0.999989	OK
Be 313.107 {107}	01/25/2013 14:58:45	Linear	1/Conc	1.000000	1.000000	OK
Ca 317.933 {105}	01/25/2013 14:58:45	Linear	1/Conc	1.000000	0.999931	OK
Cd 214.438 {157}	01/25/2013 14:58:45	Linear	1/Conc	1.000000	0.999989	OK
Co 228.616 {147}	01/25/2013 14:58:45	Linear	1/Conc	1.000000	0.999984	OK
Cr 205.552 {163}	01/25/2013 14:58:45	Linear	1/Conc	1.000000	0.999994	OK
Cu 324.754 {103}	01/25/2013 14:58:45	Linear	1/Conc	1.000000	0.999991	OK
Fe 259.940 {129}	01/25/2013 14:58:45	Linear	1/Conc	1.000000	0.999879	OK
Fe 259.940 {129}2	01/25/2013 14:58:45	Linear	1/Conc	1.000000	0.999966	OK
K 766.491 {44}	01/25/2013 14:58:45	Linear	1/Conc	1.000000	0.999961	OK
Mg 279.079 {120}	01/25/2013 14:58:45	Linear	1/Conc	1.000000	0.999975	OK
Mg 285.213 {117}	01/25/2013 14:58:45	Linear	1/Conc	1.000000	0.999906	OK
Mn 257.610 {130}	01/25/2013 14:58:45	Linear	1/Conc	1.000000	0.999971	OK
Mo 202.030 {166}	01/25/2013 14:58:45	Linear	1/Conc	1.000000	0.999986	OK
Na 589.592 {57}	01/25/2013 14:58:45	Linear	1/Conc	1.000000	1.000000	OK
Ni 231.604 {145}	01/25/2013 14:58:45	Linear	1/Conc	1.000000	0.999989	OK
Pb 220.353 {152}	01/25/2013 14:58:45	Linear	1/Conc	1.000000	0.999995	OK
Sb 206.833 {162}	01/25/2013 14:58:45	Linear	1/Conc	1.000000	0.999997	OK
Se 196.090 {171}	01/25/2013 14:58:45	Linear	1/Conc	1.000000	0.999998	OK
Si 251.612 {133}	01/25/2013 14:58:45	Linear	1/Conc	1.000000	0.999976	OK
Sn 189.989 {176}	01/25/2013 14:58:45	Linear	1/Conc	1.000000	1.000000	OK
Sr 407.771 {82}	01/25/2013 14:58:45	Linear	1/Conc	1.000000	0.999997	OK
Ti 334.941 {100}	01/25/2013 14:58:45	Linear	1/Conc	1.000000	0.999983	OK
Ti 190.864 {176}	01/25/2013 14:58:45	Linear	1/Conc	1.000000	1.000000	OK
V 292.402 {115}	01/25/2013 14:58:45	Linear	1/Conc	1.000000	0.999999	OK
Y 224.306 {150}*	<not fit>	Linear	1/Conc	1.000000	0.000000	OK
Y 360.073 {93}*	<not fit>	Linear	1/Conc	1.000000	0.000000	OK
Y 361.105 {93}*	<not fit>	Linear	1/Conc	1.000000	0.000000	OK
Zn 206.200 {163}	01/25/2013 14:58:45	Linear	1/Conc	1.000000	0.999968	OK

	Blank	Mid Std	High Std	SEQ-ICV	SEQ-ICB	SEQ-LCV1	SEQ-LCV2	SEQ-IFA1	Sample-1
	25 Jan 2013 14:40:30	25 Jan 2013 14:46:45	25 Jan 2013 14:52:47	25 Jan 2013 14:58:49	25 Jan 2013 15:04:54	25 Jan 2013 15:11:04	25 Jan 2013 15:17:14	25 Jan 2013 15:23:25	25 Jan 2013 15:29:43
Ag3280	-0.0002	0.0648	0.1279	203.2	0.2901	4.68	9.453	-0.1375	0.2292
Al3961	-0.0007	0.2841	0.5611	5015	7.648	129.9	239.3	317700	17.85
As1890	-0.0001	0.0284	0.0568	201.9	0.9868	9.742	17.78	3.336	1.045
B2089	0.0003	0.1102	0.2177	199.2	-0.0239	12.36	24.06	-3.481	-0.4101
Ba4554	0.0047	1.621	3.27	198.2	-0.4764	103	204.8	-0.2824	-0.5187
Be3131	-0.0009	0.9377	1.88	199.1	-0.2401	3.144	6.14	0.1938	-0.0383
Ca3179	0.0038	0.2054	0.3971	4975	-0.5784	520.3	1018	296100	37.5
Cd2144	0.0001	0.6687	1.324	202	-0.013	3.583	7.068	1.603	-0.0063
Co2286	-0.0002	0.4015	0.7937	201	0.0081	23.1	45.62	-2.796	-0.0483
Cr2055	-0.0006	0.3141	0.6243	203	0.0412	5.945	11.3	1.884	0.0408
Cu3247	0.0037	0.1031	0.2007	202.3	-0.3881	10.66	20	-3.34	0.354
Fe2599A	0.0002	0.3034	0.5872	5062	-1.961	51.21	101.5	201200	25.1
Fe2599R	-0.0001	0.0922	0.1813	5072	-28.62	63.12	122.4	286500	25.4
K7664	0.0167	0.1904	0.3577	4955	49.01	462.9	956.7	107.1	-13.02
Mg2790	0.0003	0.0321	0.0631	4971	-88.38	485.7	1031	321200	-51.49
Mg2852	-0.0006	0.2805	0.5456	5005	4.127	543.9	1063	269800	43.01
Mn2576	0.0001	0.1817	0.3576	203.7	0.0205	5.637	11.19	-0.1153	0.0359
Mo2020	0.0005	0.2284	0.4513	202.3	0.1511	10.47	20.64	-1.851	-0.0432
Na5895	0.0542	1.245	2.432	4962	-12.11	991.8	1979	321800	90.51
Ni2316	-0.0004	0.2212	0.4385	201.3	0.0026	20.4	40.41	-7.191	-0.1107
Pb2203	0	0.0422	0.0839	202	-1.273	8.035	15.66	0.4209	-0.817
Sb2068	0	0.0379	0.0754	199	-0.4351	20.71	42.53	3.49	-0.0944
Se1960	0.0004	0.0309	0.0611	202.1	-0.5798	21.74	41.11	-0.0127	0.0146
Si2516	0.0003	0.0327	0.0642	4938	10.87	441.4	1036	-362.9	32.78
Sn1899	0.0002	0.0397	0.0792	198.5	-0.7472	9.547	19.57	0.4571	0.0213
Sr4077	0.0006	4.291	8.54	202.1	-0.0687	11.12	22.11	5.265	-0.0787
Ti3349	0.0002	0.2966	0.5856	201.8	-0.0836	10.05	19.62	-3.389	0.0388
Ti1908	-0.0005	0.0267	0.0539	201.2	0.8638	20.95	40.62	-3.388	-0.3466
V2924	-0.0002	0.0353	0.071	198.4	0.4864	21.71	42.09	6.685	0.7922
Zn2062	-0.0002	0.4231	0.8322	205	0.4731	22.24	43.13	3.404	1.425
Y2243A	352.93	360.46	357.32	362.16	353.12	353.11	355.1	314.75	355.08
Y3600R	39.912	40.428	40.717	40.069	39.78	39.805	40.053	38.122	39.659
Y3611A	865.24	881.79	878.01	883.01	859.33	867.6	872.84	809.25	869.22

	B301115- BLK1	B301115- SRM1	B301115- SRM2	1301045- 01	B301115- MS1	B301115- MSD1	1301045- 02	1301045- 03	1301045- 04	SEQ-CCV	SEQ-CCB
	25 Jan 2013 15:35:53	25 Jan 2013 15:42:01	25 Jan 2013 15:48:13	25 Jan 2013 15:54:14	25 Jan 2013 16:00:30	25 Jan 2013 16:06:44	25 Jan 2013 16:12:48	25 Jan 2013 16:19:04	25 Jan 2013 16:25:07	25 Jan 2013 16:31:25	25 Jan 2013 16:37:33
Ag3280	-0.4204	42.54	38.76	-1.134	199.4	199.4	-0.2656	3.526	-1.526	201.4	-0.3533
Al3961	5.234	5906	5525	61470	85910	87650	61180	41330	82520	4970	-18.93
As1890	1.108	172.6	157.2	90.24	284.3	296.7	83.84	109.7	94.17	199.9	0.9829
B2089	0.052	83.56	77.16	22.9	227.3	230.6	21.87	25.38	17.53	198	0.2484
Ba4554	0.0544	199.6	179.7	475.7	677.5	687.6	466.2	698.3	348.2	198.7	-0.2876
Be3131	0.2093	108.1	97.97	4.417	194.2	199.4	4.152	2.107	3.59	191.1	0.0008
Ca3179	87.5	6538	6199	16230	18280	19120	14500	404300	10180	4955	-31.23
Cd2144	0.0164	97.82	89.88	1.242	189.3	194.5	1.164	4.948	2.217	200.2	0.0219
Co2286	-0.0589	127.5	116.2	65.17	259.2	263.9	65.68	38.84	81.46	198.4	-0.0445
Cr2055	-0.0002	114.1	103.8	99.95	305.8	311.9	97.54	123	177.3	201.3	0.1
Cu3247	0.064	122.1	110.4	109.5	316.9	308	106.6	337	108.4	199.2	0.0452
Fe2599A	3.279	9253	^F *****	151500	152500	203500	148100	s 81720.	202200	4975	0.3987
Fe2599R	33.62	10480	9662	192500	195000	207100	187000	87960	284900	4835	25.8
K7664	-11.53	2599	2438	5640	13010	13090	5674	6311	5998	5014	35.84
Mg2790	-10.85	2279	2125	19650	26330	27450	19710	57030	17630	4850	-51.56
Mg2852	10.87	2328	2172	19920	26650	27630	20040	57980	18120	4959	12.49
Mn2576	0.5668	326.4	293.4	4232	4093	4305	3963	2473	3628	200.1	0.1446
Mo2020	-0.0898	66.6	60.28	3.209	195.6	196.8	2.687	4.282	8.518	199.4	0.1305
Na5895	56.94	331.1	303	276.8	5080	4879	246.8	1176	596.1	4949	-27.44
Ni2316	0.1486	68.14	62.5	101.7	300.6	302.6	96.71	154.4	64.82	199.1	-0.2624
Pb2203	-0.394	74.95	67.82	96.92	281.8	295.5	96.43	31560	265.8	199.7	0.0184
Sb2068	-0.1817	211.2	193.9	4.988	192.7	191.6	5.345	15.94	8.903	196.1	0.1526
Se1960	-0.7152	126.4	115.5	-1.344	180.1	179.3	-2.118	4.581	-2.959	199.2	0.8796
Si2516	-29	665.5	624.4	3304	12220	12850	2544	5246	4521	4763	-32.29
Sn1899	-0.0882	148.3	131.9	-0.9198	187.8	192.7	-1.188	36.41	0.3505	195.7	-0.1467
Sr4077	0.1433	128	115.3	110.1	308.9	314.8	104.7	1744	87.83	201.7	-0.0626
Ti3349	0.1085	126.8	122.9	855.9	1173	1201	779	1714	1313	197.7	0.0712
Tl1908	1.239	F 117.8	F 113.6	-3.578	29.54	49.44	-4.229	-2.623	-5.135	198	0.9167
V2924	-0.0592	83.76	75.39	208.9	411.6	423.9	200	167.2	319.3	194.9	0.8946
Zn2062	4.503	276.3	245	395.9	572.6	617.6	385.6	1762	361.2	202.4	0.6723
Y2243A	354.28	354.56	355.14	361.93	358.71	355.5	358.26	338.81	354.29	358.37	352.11
Y3600R	39.763	41.96	41.874	42.161	41.707	39.437	41.696	39.588	40.745	39.066	38.811
Y3611A	867	888.78	888.96	908.83	905.36	885.71	905.89	855.07	888.02	883.06	863.12

	1301045-05	1301045-06	1301048-01	1301048-02	SEQ-CCV	SEQ-CCB	SEQ-LCV3	SEQ-LCV4	SEQ-IFA2
	25 Jan 2013 16:43:45	25 Jan 2013 16:50:01	25 Jan 2013 16:56:18	25 Jan 2013 17:02:35	25 Jan 2013 17:08:52	25 Jan 2013 17:15:00	25 Jan 2013 17:21:13	25 Jan 2013 17:27:24	25 Jan 2013 17:33:34
Ag3280	1.708	6.213	-0.5634	-0.301	203.2	-0.0248	4.555	10.24	-0.6142
Al3961	65060	50120	53340	54340	4995	1.114	119.9	233.3	319700
As1890	199.1	245.9	101	105.3	197.6	1.786	9.932	18.52	1.488
B2089	16.26	42.65	18.77	19.77	195.7	0.2334	12.57	24.51	-3.09
Ba4554	606.3	1181	169.3	174.2	198.8	-0.0537	105.9	215.3	-0.4564
Be3131	3.925	4.158	3.741	4.15	191.9	0.198	2.748	6.031	0.2455
Ca3179	98270	56410	10910	10550	5027	0.7144	545.9	1110	302800
Cd2144	4.752	16.06	0.8413	0.8972	199.5	0.0196	3.709	7.411	1.844
Co2286	54.69	58.89	50.76	51.33	195.7	-0.0154	23.53	47.17	-2.807
Cr2055	133.8	151.3	89.96	91.76	198.8	0.0135	5.829	11.77	1.752
Cu3247	302.2	1286	98.19	100.6	198.1	-0.0715	10.16	20.29	-3.569
Fe2599A	132200	109400	132700	135300	4937	2.413	54.45	110.2	200500
Fe2599R	158000	125000	155500	161900	4753	27.76	F 76.36	109.2	270300
K7664	6179	4035	5122	5305	5040	-71.83	413.3	1175	213.8
Mg2790	38350	21180	19450	19620	4893	-62.93	453.2	1066	317100
Mg2852	39940	21510	19590	19750	4924	-5.538	542.9	1080	271900
Mn2576	1559	2505	2795	2679	199.3	0.1334	5.913	11.56	-0.6553
Mo2020	6.112	21.26	3.18	3.38	196.8	0.0314	10.64	21.26	-1.537
Na5895	1361	1417	303.9	212.6	4921	-20.62	1036	2088	324400
Ni2316	103.6	203.8	86.84	87.63	197.8	-0.0105	20.71	41.79	-7.808
Pb2203	13980	64000	115.3	122.1	196.8	-0.1754	8.534	16.86	0.8468
Sb2068	13.51	57.63	4.195	4.806	193.8	0.3887	21.88	43.63	4.862
Se1960	-0.0755	53.5	-1.358	-2.247	197.8	0.8701	22.65	43.88	-1.359
Si2516	4999	5435	4560	4565	4698	86.1	526.3	1049	-302.1
Sn1899	25.59	112.5	-1.58	-1.462	193.8	-0.6742	10.48	20.55	1.406
Sr4077	319.8	339	88.51	89.71	201.1	-0.0216	11.42	23.15	4.15
Ti3349	1381	2099	865.7	870.9	196.9	0.0508	10.38	20.43	-3.313
Ti1908	-3.51	0.8636	-4.236	-3.602	194.3	-0.6233	19.38	40.25	-6.122
V2924	255.8	338.6	247.6	255.1	195	1.06	22.05	43.41	6.711
Zn2062	2618	13260	377.1	347.8	203.3	0.8116	23.81	45.86	3.607
Y2243A	342.08	367.94	370.56	370.55	370.98	363.13	364.42	364.47	323.58
Y3600R	40.433	42.136	41.662	41.338	38.888	38.887	39.19	38.907	37.177
Y3611A	878.49	926.17	920.15	926.92	906.53	882.77	886.33	887.45	823.3

LCS

SOIL

D077-540

Element	True Value mg/Kg	Acceptance Limits mg/Kg		LCS 1 mg/Kg	LCS 2 mg/Kg	Average mg/Kg	% Recovery	RPD
		Lower	Upper	B301115- SRM1	B301115- SRM2			
				25 Jan 2013 15:42:01	25 Jan 2013 15:48:13			
Silver	42.3	28.1	56.6	42.5	38.8	40.7	96.1%	9.30%
Aluminum	9310	4470	14200	5906	5525	5716	61.4%	6.67%
Arsenic	168	140	197	172.6	157.2	164.9	98.2%	9.34%
Boron	85	66	104	83.6	77.2	80.4	94.4%	7.96%
Barium	213	177	249	199.6	179.7	189.7	89.0%	10.49%
Beryllium	110.0	92.6	128	108.1	98.0	103.0	93.7%	9.83%
Calcium	6870	5700	8040	6538.0	6199.0	6368.5	92.7%	5.32%
Cadmium	103	86	119	97.8	89.9	93.9	91.1%	8.46%
Cobalt	131.0	109.0	153	127.5	116.2	121.9	93.0%	9.27%
Chromium	119.0	97.1	140	114.1	103.8	109.0	91.6%	9.45%
Copper	118.0	96.3	139	122.1	110.4	116.3	98.5%	10.06%
Iron 2599 A	13000	6560	19400	9253.0	AF *****	9253.0	71.2%	#VALUE!
Iron 2599 R	13000	6560	19400	10480.0	9662.0	10071.0	77.5%	8.12%
Potassium	3130	2270	3980	2599.0	2438.0	2518.5	80.5%	6.39%
Magnesium 2790	2780	2110	3450	2279.0	2125.0	2202.0	79.2%	6.99%
Magnesium 2852	2780	2110	3450	2328.0	2172.0	2250.0	80.9%	6.93%
Manganese	338	279	397	326.4	293.4	309.9	91.7%	10.65%
Molybdenum	61.5	41.6	84.8	66.6	60.3	63.4	103.2%	9.96%
Sodium	350	258	441	331.1	303.0	317.1	90.6%	8.86%
Nickel	70.0	57.2	82.7	68.1	62.5	65.3	93.3%	8.63%
Lead	76.9	62.5	91.3	75.0	67.8	71.4	92.8%	9.99%
Antimony	120	20	263	211.2	193.9	202.6	168.8%	8.54%
Selenium	126	101	152	126.4	115.5	121.0	96.0%	9.01%
Silicon	not evaluated			665.5	624.4	645.0	#VALUE!	6.37%
Tin	142	112	172	148.3	131.9	140.1	98.7%	11.71%
Strontium	133	108	158	128.0	115.3	121.7	91.5%	10.44%
Titanium	219	38	401	126.8	122.9	124.9	57.0%	3.12%
Thallium	208	169	247	117.8	113.6	115.7	55.6%	3.63%
Vanadium	87.1	67.6	107	83.8	75.4	79.6	91.4%	10.52%
Zinc	276	227	325	276.3	245.0	260.7	94.4%	12.01%

Method: CLP SOW; 5.00-10.00g sample dried at 103-105 degC for 12-24 hours.						
Project Name: Jewett White		Project Number: 1301045				
Project Name: Jewett White		Project Number: 1301048				
Oven # 27	Balance # 29					
Date placed in oven at 103-105degC:		1/25/2013	Time:	4:14 PM		
Date removed from oven at 103-105degC:		1/26/2013	Time:	11:00 AM		
SAMPLE ID	WT OF DISH (grams) -A-	WT OF DISH + WET/AIR- DRIED SAMPLE (grams) -B-	WT OF DISH + DRIED SAMPLE (grams) -C-	PERCENT SOLIDS	PERCENT MOISTURE	CHECK IF AIR- DRIED
1	1301045-01	0.9318	7.3362	7.3356	99.99%	0.01%
1D	1301045-01	0.9388	7.8641	7.8623	99.97%	0.03%
2	1301045-02	0.9368	8.7927	8.7894	99.96%	0.04%
3	1301045-03	0.9414	8.3341	8.3330	99.99%	0.01%
4	1301045-04	0.9458	8.1640	8.0892	98.96%	1.04%
5	1301045-05	0.9415	8.0127	8.0067	99.92%	0.08%
6	1301045-06	0.9435	7.9920	7.9120	98.87%	1.13%
7	1301048-01	0.9434	8.4590	8.4565	99.97%	0.03%
8	1301048-02	0.9419	8.7873	8.7861	99.98%	0.02%
9						
10				#DIV/0!	#DIV/0!	
11				#DIV/0!	#DIV/0!	
12				#DIV/0!	#DIV/0!	
13				#DIV/0!	#DIV/0!	
14				#DIV/0!	#DIV/0!	
15				#DIV/0!	#DIV/0!	
16				#DIV/0!	#DIV/0!	
17				#DIV/0!	#DIV/0!	
18				#DIV/0!	#DIV/0!	
19				#DIV/0!	#DIV/0!	
20				#DIV/0!	#DIV/0!	
				#DIV/0!	#DIV/0!	
				Av % Solids	Av % Moisture	
				99.98%	0.02%	
				RPD % Solids	RPD % Moisture	
				RPD<20%	RPD<20%	
				99.98%	0.02%	94.02%

***Duplicate Must Be From First Sample Entered on the List for Correct RPD**

PERCENT =	(C - A)	(*100)	PERCENT =	(B - C)	(*100)
SOLIDS	(B - A)		MOISTURE	(B - A)	

Analyst: William B. Holt
 Date: 1/28/12

Checked by: 12
 Date Checked: 1-28-13

Manual Calculation

Sample # 13010415-01

Analyte Pb

result Mg/Kg = $\frac{\text{instrument result} \times \text{dilution factor} \times \text{Volume in L}}{\text{weight of sample} \times (\% \text{ solids}/100)}$

$$\text{result Mg/Kg} = \frac{96.92 \times 1 \times 0.05}{0.5983 \times (99.99 / 100)}$$

$$\text{result Mg/Kg} = \frac{4.846}{0.5982}$$

$$\text{result Mg/Kg} = 8.10 \quad \checkmark \quad \text{1-28-13}$$

Sample Name: Blank Acquired: 01/25/2013 14:40:30 Type: Cal
 Method: EPA-ICP P Mode: IR Corr. Factor: 1.000000
 User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
 Comment:

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144	Co2286
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	-.0002	-.0007	-.0001	.0003	.0047	-.0009	.0038	.0001	-.0002
Stddev	.0000	.0020	.0000	.0001	.0017	.0008	.0006	.0001	.0001
%RSD	12.29	271.7	29.14	25.95	36.46	91.72	15.67	46.36	30.21

#1	-.0001	-.0026	-.0002	.0003	.0028	-.0012	.0031	.0002	-.0002
#2	-.0002	.0014	-.0002	.0004	.0060	-.0015	.0040	.0001	-.0002
#3	-.0002	-.0010	-.0001	.0002	.0052	.0000	.0042	.0001	-.0003

Elem	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852	Mn2576	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	-.0006	.0037	.0002	-.0001	.0167	.0003	-.0006	.0001	.0005
Stddev	.0001	.0000	.0001	.0002	.0032	.0006	.0004	.0001	.0001
%RSD	9.373	.9579	28.78	120.6	19.21	227.0	54.05	136.3	16.34

#1	-.0006	.0037	.0002	.0001	.0156	.0001	-.0010	.0000	.0004
#2	-.0006	.0037	.0002	-.0003	.0142	-.0002	-.0003	.0001	.0006
#3	-.0007	.0036	.0001	-.0002	.0203	.0009	-.0007	.0001	.0005

Elem	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516	Sn1899	Sr4077	Ti3349
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0542	-.0004	.0000	.0000	.0004	.0003	.0002	.0006	.0002
Stddev	.0021	.0001	.0000	.0001	.0000	.0005	.0001	.0005	.0000
%RSD	3.853	19.15	141.7	147.0	8.184	204.4	47.68	94.46	16.79

#1	.0519	-.0004	.0000	.0000	.0004	.0006	.0003	.0010	.0002
#2	.0561	-.0004	.0000	.0001	.0004	-.0003	.0001	.0006	.0002
#3	.0545	-.0003	.0000	.0001	.0004	.0006	.0002	.0000	.0002

Elem	Ti1908	V2924	Zn2062
Units	Cts/S	Cts/S	Cts/S
Avg	-.0005	-.0002	-.0002
Stddev	.0000	.0001	.0001
%RSD	7.287	29.95	31.27

#1	-.0005	-.0003	-.0001
#2	-.0005	-.0002	-.0002
#3	-.0005	-.0002	-.0003

Sample Name: Blank Acquired: 01/25/2013 14:40:30 Type: Cal
Method: EPA-ICP P Mode: IR Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	352.93	39.912	865.24
Stddev	.51	.069	6.53
%RSD	.14479	.17230	.75522
#1	353.42	39.832	872.57
#2	352.40	39.955	863.13
#3	352.98	39.947	860.02

Sample Name: Mid Std Acquired: 01/25/2013 14:46:45 Type: Cal
 Method: EPA-ICP P Mode: IR Corr. Factor: 1.000000
 User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
 Comment:

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144	Co2286
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0648	.2841	.0284	.1102	1.621	.9377	.2054	.6687	.4015
Stddev	.0004	.0001	.0000	.0004	.005	.0037	.0005	.0018	.0003
%RSD	.6647	.0455	.1259	.3667	.3370	.3957	.2539	.2733	.0687

#1	.0652	.2840	.0284	.1106	1.627	.9411	.2058	.6706	.4018
#2	.0649	.2842	.0284	.1100	1.616	.9338	.2048	.6687	.4014
#3	.0643	.2840	.0285	.1099	1.620	.9382	.2054	.6670	.4012

Elem	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852	Mn2576	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.3141	.1031	.3034	.0922	.1904	.0321	.2805	.1817	.2284
Stddev	.0010	.0002	.0006	.0019	.0020	.0001	.0010	.0001	.0002
%RSD	.3206	.1837	.1905	2.022	1.050	.4003	.3728	.0796	.0896

#1	.3152	.1033	.3037	.0918	.1914	.0322	.2797	.1819	.2282
#2	.3138	.1029	.3028	.0906	.1917	.0323	.2801	.1816	.2284
#3	.3133	.1030	.3039	.0942	.1881	.0320	.2817	.1817	.2286

Elem	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516	Sn1899	Sr4077	Ti3349
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.245	.2212	.0422	.0379	.0309	.0327	.0397	4.291	.2966
Stddev	.004	.0004	.0001	.0001	.0001	.0003	.0000	.006	.0009
%RSD	.3109	.1619	.1529	.3580	.3014	.7741	.0250	.1523	.3117

#1	1.247	.2215	.0423	.0381	.0309	.0324	.0397	4.298	.2959
#2	1.241	.2214	.0422	.0378	.0308	.0329	.0397	4.285	.2962
#3	1.248	.2208	.0423	.0378	.0310	.0327	.0397	4.290	.2976

Elem	Tl1908	V2924	Zn2062
Units	Cts/S	Cts/S	Cts/S
Avg	.0267	.0353	.4231
Stddev	.0001	.0002	.0002
%RSD	.2550	.4343	.0590

#1	.0268	.0355	.4230
#2	.0266	.0352	.4234
#3	.0267	.0353	.4229

Sample Name: Mid Std Acquired: 01/25/2013 14:46:45 Type: Cal
Method: EPA-ICP P Mode: IR Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	360.46	40.428	881.79
Stddev	.30	.077	4.38
%RSD	.08313	.19110	.49722

#1	360.18	40.482	886.75
#2	360.41	40.463	878.41
#3	360.77	40.340	880.23

Sample Name: High Std Acquired: 01/25/2013 14:52:47 Type: Cal
 Method: EPA-ICP P Mode: IR Corr. Factor: 1.000000
 User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
 Comment:

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144	Co2286
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.1279	.5611	.0568	.2177	3.270	1.880	.3971	1.324	.7937
Stddev	.0010	.0016	.0003	.0009	.011	.004	.0011	.005	.0021
%RSD	.7545	.2855	.4726	.4321	.3422	.1974	.2739	.3921	.2598

#1	.1290	.5627	.0571	.2186	3.281	1.883	.3971	1.329	.7961
#2	.1276	.5595	.0568	.2178	3.259	1.876	.3960	1.324	.7927
#3	.1271	.5612	.0566	.2167	3.269	1.881	.3982	1.319	.7923

Elem	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852	Mn2576	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.6243	.2007	.5872	.1813	.3577	.0631	.5456	.3576	.4513
Stddev	.0024	.0007	.0009	.0007	.0055	.0003	.0032	.0010	.0008
%RSD	.3881	.3638	.1567	.3641	1.549	.5420	.5873	.2680	.1856

#1	.6270	.2013	.5878	.1812	.3621	.0633	.5472	.3585	.4522
#2	.6237	.2009	.5876	.1821	.3514	.0632	.5419	.3578	.4512
#3	.6223	.1999	.5861	.1808	.3595	.0627	.5476	.3566	.4505

Elem	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516	Sn1899	Sr4077	Ti3349
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2.432	.4385	.0839	.0754	.0611	.0642	.0792	8.540	.5856
Stddev	.009	.0017	.0002	.0003	.0003	.0006	.0001	.038	.0010
%RSD	.3618	.3794	.2675	.3505	.4588	.9173	.1043	.4440	.1639

#1	2.434	.4402	.0842	.0756	.0614	.0646	.0792	8.565	.5867
#2	2.422	.4383	.0838	.0754	.0609	.0645	.0793	8.497	.5854
#3	2.440	.4369	.0837	.0751	.0609	.0635	.0791	8.559	.5848

Elem	Tl1908	V2924	Zn2062
Units	Cts/S	Cts/S	Cts/S
Avg	.0539	.0710	.8322
Stddev	.0001	.0002	.0033
%RSD	.2636	.2364	.3941

#1	.0540	.0711	.8355
#2	.0540	.0710	.8320
#3	.0537	.0708	.8290

Sample Name: High Std Acquired: 01/25/2013 14:52:47 Type: Cal
Method: EPA-ICP P Mode: IR Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	357.32	40.717	878.01
Stddev	1.18	.205	4.81
%RSD	.33084	.50243	.54779

#1	355.98	40.747	883.46
#2	357.76	40.906	874.36
#3	358.21	40.500	876.21

Sample Name: SEQ-ICV Acquired: 01/25/2013 14:58:49 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II.XDL S/N12816:
Comment:

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144	Co2286
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	203.2	5015.	201.9	199.2	198.2	199.1	4975.	202.0	201.0
Stddev	1.5	52.	1.7	.9	.7	.9	34.	.3	.3
%RSD	.7425	1.046	.8373	.4560	.3393	.4380	.6760	.1614	.1529

#1	203.3	5040.	200.0	200.2	199.0	199.3	4953.	202.4	201.2
#2	204.6	5049.	202.7	198.8	198.0	199.8	4958.	201.7	200.6
#3	201.6	4954.	203.0	198.5	197.7	198.1	5014.	202.0	201.1

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852	Mn2576	Mo2020
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	203.0	202.3	5062.	5072.	4955.	4971.	5005.	203.7	202.3
Stddev	.4	1.3	15.	53.	127.	159.	13.	.5	.5
%RSD	.2178	.6400	.2900	1.046	2.555	3.205	.2694	.2262	.2527

#1	203.4	202.9	5056.	5058.	4999.	4909.	5013.	204.1	202.9
#2	203.0	203.2	5079.	5028.	5053.	5152.	5012.	204.0	202.0
#3	202.5	200.8	5052.	5131.	4812.	4852.	4989.	203.2	202.2

[illegible]

Sample Name: SEQ-ICV Acquired: 01/25/2013 14:58:49 Type: QC
 Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
 User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
 Comment:

Elem	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516	Sn1899	Sr4077	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4962.	201.3	202.0	199.0	202.1	4938.	198.5	202.1	201.8
Stddev	13.	.4	1.1	.3	.8	93.	.6	.8	.8
%RSD	.2664	.2182	.5247	.1541	.3935	1.887	.2892	.3850	.4136
#1	4975.	201.8	202.9	199.3	201.2	5040.	199.1	202.8	201.3
#2	4949.	201.0	200.8	198.7	202.8	4857.	197.9	202.2	202.7
#3	4960.	201.2	202.2	199.0	202.2	4918.	198.4	201.3	201.3

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Ti1908	V2924	Zn2062
Units	ppb	ppb	ppb
Avg	201.2	198.4	205.0
Stddev	2.2	.5	.5
%RSD	1.086	.2389	.2664
#1	200.8	198.7	205.6
#2	203.6	198.7	204.5
#3	199.3	197.9	205.0

Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

Sample Name: SEQ-ICV Acquired: 01/25/2013 14:58:49 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	362.16	40.069	883.01
Stddev	.66	.210	4.61
%RSD	.18267	.52291	.52192

#1	361.40	39.932	886.84
#2	362.48	39.966	877.89
#3	362.59	40.310	884.28

Sample Name: SEQ-ICB Acquired: 01/25/2013 15:04:54 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144	Co2286
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.2901	7.648	.9868	-.0239	-.4764	-.2401	-.5784	-.0130	.0081
Stddev	.1986	27.26	.4785	.5387	.3415	.1792	11.66	.0316	.0792
%RSD	68.45	356.5	48.49	2250.	71.69	74.64	2016.	243.5	978.5

#1	.0648	26.55	.7856	.4360	-.7761	-.2176	7.824	-.0234	-.0798
#2	.3658	-23.61	.6417	.1088	-.5486	-.0732	4.329	-.0380	.0303
#3	.4396	20.00	1.533	-.6166	-.1045	-.4295	-13.89	.0225	.0738

[illegible]

Elem	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852	Mn2576	Mo2020
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0412	-.3881	-1.961	-28.62	49.01	-88.38	4.127	.0205	.1511
Stddev	.1388	.3178	.179	45.11	63.15	140.5	11.58	.0826	.0816
%RSD	337.0	81.89	9.122	157.6	128.9	158.9	280.6	403.6	54.04

#1	-.0815	-.0711	-2.144	-77.65	-21.84	-250.6	14.23	.0159	.0823
#2	.0133	-.3864	-1.953	-19.36	69.51	-7.321	6.664	-.0597	.2413
#3	.1918	-.7068	-1.787	11.14	99.37	-7.238	-8.511	.1052	.1297

[illegible]

Sample Name: SEQ-ICB Acquired: 01/25/2013 15:04:54 Type: QC
 Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
 User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
 Comment:

Elem	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516	Sn1899	Sr4077	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-12.11	.0026	-1.273	-.4351	-.5798	10.87	-.7472	-.0687	-.0836
Stddev	9.70	.1146	.571	.1636	.3475	87.70	.5350	.0773	.0343
%RSD	80.09	4372.	44.82	37.59	59.93	806.9	71.60	112.7	41.04
#1	-23.24	.0448	-1.365	-.3888	-.4804	25.56	-.8277	-.0833	-.1233
#2	-7.708	-.1271	-.6626	-.6168	-.9662	90.29	-.1765	.0150	-.0642
#3	-5.397	.0902	-1.793	-.2997	-.2929	-83.25	-1.237	-.1376	-.0635

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ti1908	V2924	Zn2062
Units	ppb	ppb	ppb
Avg	.8638	.4864	.4731
Stddev	.3832	.3665	.0419
%RSD	44.36	75.35	8.859
#1	.4251	.4899	.4253
#2	1.133	.8511	.5033
#3	1.033	.1182	.4908

Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Sample Name: SEQ-ICB Acquired: 01/25/2013 15:04:54 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	353.12	39.780	859.33
Stddev	.91	.082	1.22
%RSD	.25695	.20716	.14168

#1	353.98	39.700	860.32
#2	352.17	39.865	859.70
#3	353.20	39.776	857.97

Sample Name: SEQ-LCV1 Acquired: 01/25/2013 15:11:04 Type: QC
 Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
 User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
 Comment:

Elem	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516	Sn1899	Sr4077	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	991.8	20.40	8.035	20.71	21.74	441.4	9.547	11.12	10.05
Stddev	4.3	.17	.465	.45	.88	45.4	.257	.09	.01
%RSD	.4351	.8387	5.783	2.173	4.061	10.27	2.697	.8142	.0835
#1	995.6	20.36	8.559	20.83	22.50	424.8	9.267	11.05	10.05
#2	987.1	20.25	7.873	20.21	20.77	492.8	9.774	11.22	10.04
#3	992.6	20.58	7.673	21.09	21.95	406.8	9.601	11.10	10.05

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb
Avg	20.95	21.71	22.24
Stddev	.76	.24	.04
%RSD	3.623	1.120	.1578
#1	21.31	21.59	22.27
#2	20.08	21.56	22.20
#3	21.47	22.00	22.25

Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

Sample Name: SEQ-LCV1 Acquired: 01/25/2013 15:11:04 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	353.11	39.805	867.60
Stddev	.23	.176	6.40
%RSD	.06516	.44202	.73746
#1	352.99	39.999	874.97
#2	352.97	39.759	863.45
#3	353.38	39.656	864.39

Sample Name: SEQ-LCV2 Acquired: 01/25/2013 15:17:14 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

[illegible][illegible]

Sample Name: SEQ-LCV2 Acquired: 01/25/2013 15:17:14 Type: QC
 Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
 User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
 Comment:

Elem	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516	Sn1899	Sr4077	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1979.	40.41	15.66	42.53	41.11	1036.	19.57	22.11	19.62
Stddev	17.	.22	1.30	.61	.99	36.	.21	.12	.10
%RSD	.8588	.5407	8.313	1.431	2.409	3.480	1.075	.5572	.5191
#1	1980.	40.60	16.90	42.40	42.25	1076.	19.38	21.97	19.50
#2	1961.	40.17	14.31	43.19	40.53	1026.	19.54	22.17	19.69
#3	1995.	40.47	15.78	41.99	40.54	1006.	19.79	22.20	19.67

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Ti1908	V2924	Zn2062
Units	ppb	ppb	ppb
Avg	40.62	42.09	43.13
Stddev	1.02	.04	.06
%RSD	2.504	.0832	.1467
#1	41.78	42.12	43.16
#2	39.92	42.11	43.17
#3	40.15	42.05	43.06

Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

Sample Name: SEQ-LCV2 Acquired: 01/25/2013 15:17:14 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert ; SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	355.10	40.053	872.84
Stddev	.11	.099	5.04
%RSD	.03059	.24799	.57691

#1	355.14	39.940	878.66
#2	354.98	40.127	869.91
#3	355.18	40.092	869.96

Sample Name: SEQ-IFA1 Acquired: 01/25/2013 15:23:25 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.1375	317700.	3.336	-3.481	-.2824	.1938	296100.	1.603
Stddev	.9243	135.	.734	.312	.2258	.5251	1068.	.137
%RSD	672.3	.0424	22.01	8.955	79.96	270.9	.3605	8.556

#1	.0493	317800.	2.792	-3.243	-.0838	.2595	297300.	1.474
#2	.6792	317700.	3.044	-3.366	-.2354	.6829	295300.	1.747
#3	-1.141	317600.	4.171	-3.834	-.5280	-.3610	295600.	1.587

Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.796	1.884	-3.340	201200.	286500.	107.1	321200.	269800.
Stddev	.125	.297	.049	561.	565.	59.2	1027.	859.
%RSD	4.463	15.77	1.460	.2788	.1971	55.26	.3196	.3185

#1	-2.652	1.544	-3.375	201700.	287100.	127.9	322200.	270700.
#2	-2.865	2.013	-3.359	200600.	286000.	153.1	321200.	269100.
#3	-2.871	2.095	-3.284	201500.	286400.	40.33	320200.	269500.

Check ?	Chk Pass	Chk Pass	Chk Pass	None	None	Chk Pass	None	None
High Limit								
Low Limit								

Sample Name: SEQ-IFA1 Acquired: 01/25/2013 15:23:25 Type: QC
 Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
 User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
 Comment:

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.153	-1.851	321800.	-7.191	.4209	3.490	-.0127	-362.9
Stddev	.1046	.213	1090.	.211	1.390	.641	3.321	45.2
%RSD	90.71	11.52	.3387	2.940	330.3	18.37	26200.	12.45
#1	.0028	-1.623	320900.	-6.949	1.510	3.867	2.436	-318.1
#2	-.1963	-2.046	321500.	-7.282	.8976	3.853	-3.792	-362.2
#3	-.1523	-1.885	323000.	-7.342	-1.145	2.750	1.318	-408.5

Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Sn1899	Sr4077	Ti3349	Ti1908	V2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.4571	5.265	-3.389	-3.388	6.685	3.404
Stddev	.9965	.387	.116	1.080	.285	.110
%RSD	218.0	7.343	3.414	31.88	4.261	3.217
#1	.0398	5.241	-3.501	-3.028	6.402	3.526
#2	-.2630	5.663	-3.398	-2.534	6.682	3.369
#3	1.594	4.891	-3.270	-4.602	6.972	3.316

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: SEQ-IFA1 Acquired: 01/25/2013 15:23:25 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	314.75	38.122	809.25
Stddev	3.80	.064	1.06
%RSD	1.2071	.16837	.13117
#1	316.99	38.143	808.02
#2	310.36	38.172	809.87
#3	316.89	38.049	809.85

Sample Name: Sample-1 Acquired: 01/25/2013 15:29:43 Type: Unk
 Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
 User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
 Comment:

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144	Co2286
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.2292	17.85	1.045	-.4101	-.5187	-.0383	37.50	-.0063	-.0483
Stddev	.7883	6.93	1.361	.2339	.4592	.5065	9.83	.0482	.0755
%RSD	344.0	38.82	130.2	57.04	88.53	1324.	26.22	764.2	156.2

#1	-.0549	15.65	1.905	-.3493	-1.047	.3256	35.81	-.0599	.0063
#2	-.3777	12.29	-.5238	-.6684	-.2198	.1764	48.07	.0074	-.0168
#3	1.120	25.61	1.755	-.2126	-.2889	-.6167	28.63	.0335	-.1345

Elem	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852	Mn2576	Mo2020
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0408	.3540	25.10	25.40	-13.02	-51.49	43.01	.0359	-.0432
Stddev	.0553	.5044	5.16	29.75	84.50	19.25	5.94	.1690	.0739
%RSD	135.6	142.5	20.55	117.1	649.2	37.38	13.82	471.3	170.8

#1	.0052	.3622	29.77	50.88	-83.55	-40.37	39.54	-.1588	-.0968
#2	.0127	.8541	19.56	32.61	80.64	-40.37	39.61	.1453	-.0739
#3	.1046	-.1545	25.98	-7.296	-36.15	-73.71	49.87	.1210	.0410

Elem	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516	Sn1899	Sr4077	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	90.51	-.1107	-.8170	-.0944	.0146	32.78	.0213	-.0787	.0388
Stddev	19.70	.3789	.4314	.7140	.9103	76.54	.1178	.1131	.0528
%RSD	21.77	342.4	52.80	756.2	6227.	233.5	552.5	143.7	136.3

#1	113.1	-.5324	-1.125	.2407	-.6760	25.38	-.0916	-.2093	.0298
#2	81.67	-.0006	-1.002	-.9144	-.3263	112.7	.0122	-.0148	-.0090
#3	76.77	.2010	-.3239	.3904	1.046	-39.79	.1434	-.0121	.0955

Elem	Ti1908	V2924	Zn2062
Units	ppb	ppb	ppb
Avg	-.3466	.7922	1.425
Stddev	.2043	.6537	.031
%RSD	58.96	82.52	2.196

#1	-.4872	.1042	1.455
#2	-.1122	1.405	1.428
#3	-.4403	.8673	1.393

Sample Name: Sample-1 Acquired: 01/25/2013 15:29:43 Type: Unk
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	355.08	39.659	869.22
Stddev	.14	.116	8.13
%RSD	.04083	.29325	.93542
#1	355.24	39.769	878.53
#2	354.96	39.671	863.53
#3	355.04	39.538	865.59

Sample Name: B301115-BLK1 Acquired: 01/25/2013 15:35:53 Type: QC
 Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
 User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
 Comment:

Elem	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516	Sn1899	Sr4077	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	56.94	.1486	-.3940	-.1817	-.7152	-29.00	-.0882	.1433	.1085
Stddev	11.82	.5094	.4064	.4745	.9569	47.45	.1617	.1320	.0504
%RSD	20.76	342.8	103.1	261.2	133.8	163.6	183.4	92.18	46.44
#1	44.30	.4244	-.8439	-.0226	.3847	3.659	-.1646	.1592	.0549
#2	67.72	-.4392	-.2847	-.7153	-1.356	-83.43	-.1974	.0040	.1549
#3	58.79	.4606	-.0535	.1929	-1.174	-7.236	.0976	.2666	.1158

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb
Avg	1.239	-.0592	4.503
Stddev	.724	.5869	.071
%RSD	58.44	991.7	1.570
#1	.4709	-.0045	4.582
#2	1.909	-.6715	4.481
#3	1.337	.4984	4.446

Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Sample Name: B301115-BLK1 Acquired: 01/25/2013 15:35:53 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	354.28	39.763	867.00
Stddev	.56	.110	5.74
%RSD	.15712	.27758	.66187

#1	353.85	39.842	873.59
#2	354.90	39.637	864.32
#3	354.08	39.809	863.10

Sample Name: B301115-SRM1 Acquired: 01/25/2013 15:42:01 Type: QC
 Method: EPA-ICP P Mode: CONC Corr. Factor: 0.094500
 User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
 Comment:

Elem	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516	Sn1899	Sr4077	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	331.1	68.14	74.95	211.2	126.4	665.5	148.3	128.0	126.8
Stddev	2.3	.16	.19	.4	.3	10.7	.2	.2	1.9
%RSD	.6876	.2301	.2525	.2079	.2451	1.611	.1389	.1438	1.503
#1	330.1	67.96	74.74	210.7	126.1	676.6	148.2	128.0	125.2
#2	333.7	68.23	75.04	211.6	126.4	664.7	148.1	128.2	128.9
#3	329.5	68.22	75.08	211.1	126.7	655.2	148.5	127.9	126.3

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ti1908	V2924	Zn2062
Units	ppb	ppb	ppb
Avg	F 117.8	83.76	276.3
Stddev	3.3	1.36	.3
%RSD	2.772	1.627	.1114
#1	120.8	83.18	276.0
#2	114.3	85.32	276.3
#3	118.2	82.79	276.6

Check ?	Chk Fail	Chk Pass	Chk Pass
High Limit	247.0		
Low Limit	169.0		

Sample Name: B301115-SRM1 Acquired: 01/25/2013 15:42:01 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 0.094500
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	354.56	41.960	888.78
Stddev	1.17	.073	13.69
%RSD	.32876	.17502	1.5409

#1	355.91	41.920	898.55
#2	353.91	42.045	873.12
#3	353.87	41.916	894.65

Sample Name: B301115-SRM2 Acquired: 01/25/2013 15:48:13 Type: QC
 Method: EPA-ICP P Mode: CONC Corr. Factor: 0.093686
 User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
 Comment:

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144	Co2286
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	38.76	5525.	157.2	77.16	179.7	97.97	6199.	89.88	116.2
Stddev	.05	9.	.2	.26	.5	.16	2.	.19	.2
%RSD	.1344	.1596	.1206	.3334	.2656	.1589	.0323	.2094	.1402

#1	38.73	5532.	157.1	77.10	180.3	97.79	6198.	89.77	116.1
#2	38.82	5515.	157.5	77.44	179.4	98.07	6198.	90.10	116.4
#3	38.73	5527.	157.2	76.94	179.5	98.05	6201.	89.77	116.3

Check ?	Ag	Al	As	B	Ba	Be	Ca	Cd	Co
High Limit	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
Low Limit	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass

Elem	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852	Mn2576	Mo2020
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	103.8	110.4	^F *****	9662.	2438.	2125.	2172.	293.4	60.28
Stddev	.2	.0	---	28.	3.	9.	1.	.5	.13
%RSD	.1507	.0416	---	.2919	.1374	.4419	.0331	.1723	.2145

#1	103.7	110.5	s 8636.	9651.	2442.	2118.	2171.	293.9	60.14
#2	104.0	110.4	^ ---	9694.	2436.	2135.	2172.	293.4	60.38
#3	103.7	110.5	^ ---	9641.	2438.	2122.	2171.	292.8	60.33

Check ?	Cr	Cu	Fe	K	Mg	Mg	Mn	Mo
High Limit	Pass	Pass	Fail	Pass	Pass	Pass	Pass	Pass
Low Limit	Pass	Pass	19400. 6560.	Pass	Pass	Pass	Pass	Pass

Sample Name: B301115-SRM2 Acquired: 01/25/2013 15:48:13 Type: QC
 Method: EPA-ICP P Mode: CONC Corr. Factor: 0.093686
 User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
 Comment:

Elem	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516	Sn1899	Sr4077	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	303.0	62.50	67.82	193.9	115.5	624.4	131.9	115.3	122.9
Stddev	1.0	.18	.05	.3	.2	2.3	.0	.2	.2
%RSD	.3210	.2907	.0682	.1693	.1505	.3736	.0364	.1426	.1922
#1	302.8	62.40	67.77	193.8	115.7	622.2	131.9	115.4	123.1
#2	302.2	62.71	67.84	194.3	115.5	626.8	131.9	115.1	122.6
#3	304.1	62.39	67.86	193.6	115.4	624.1	132.0	115.3	123.0

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ti1908	V2924	Zn2062
Units	ppb	ppb	ppb
Avg	F 113.6	75.39	245.0
Stddev	.6	.12	.2
%RSD	.5648	.1589	.0718
#1	114.4	75.52	244.8
#2	113.1	75.37	245.2
#3	113.5	75.29	244.9

Check ?	Chk Fail	Chk Pass	Chk Pass
High Limit	247.0		
Low Limit	169.0		

Sample Name: B301115-SRM2 Acquired: 01/25/2013 15:48:13 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 0.093686
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	355.14	41.874	888.96
Stddev	.50	.066	2.88
%RSD	.14028	.15767	.32420

#1	355.04	41.853	891.90
#2	354.70	41.821	886.14
#3	355.68	41.948	888.84

Sample Name: 1301045-01 Acquired: 01/25/2013 15:54:14 Type: Unk
 Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
 User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
 Comment: Jewett White (1301045)

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.134	61470.	90.24	22.90	475.7	4.417	16230.	1.242
Stddev	.464	226.	.89	.61	1.0	.446	42.	.011
%RSD	40.94	.3673	.9872	2.644	.2144	10.09	.2593	.8611

#1	-1.030	61250.	89.28	23.54	476.1	4.928	16190.	1.232
#2	-1.641	61450.	91.04	22.82	476.5	4.109	16270.	1.254
#3	-.7303	61700.	90.41	22.33	474.6	4.214	16220.	1.240

Elem	Co2286	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	65.17	99.95	109.5	151500.	192500.	5640.	19650.	19920.
Stddev	.31	.54	.3	270.	2099.	87.	127.	36.
%RSD	.4782	.5414	.2472	.1782	1.090	1.540	.6468	.1786

#1	65.23	100.5	109.7	151600.	190800.	5593.	19520.	19880.
#2	64.83	99.40	109.2	151200.	191900.	5586.	19770.	19950.
#3	65.45	99.97	109.6	151600.	194900.	5740.	19680.	19940.

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4232.	3.209	276.8	101.7	96.92	4.988	-1.344	3304.
Stddev	17.	.150	2.7	.4	1.16	.795	2.033	106.
%RSD	.3940	4.669	.9921	.3482	1.195	15.93	151.3	3.207

#1	4249.	3.322	278.5	101.9	97.24	4.071	-1.052	3375.
#2	4231.	3.265	273.6	101.3	95.64	5.470	.5276	3355.
#3	4216.	3.039	278.2	101.8	97.89	5.423	-3.507	3183.

Elem	Sn1899	Sr4077	Ti3349	Ti1908	V2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.9198	110.1	855.9	-3.578	208.9	395.9
Stddev	.3500	.5	1.9	1.214	1.7	1.7
%RSD	38.05	.4267	.2237	33.92	.8156	.4192

#1	-.5172	109.7	858.1	-2.180	210.8	397.3
#2	-1.152	110.1	855.3	-4.366	208.0	394.1
#3	-1.090	110.6	854.4	-4.188	207.8	396.5

Sample Name: 1301045-01 Acquired: 01/25/2013 15:54:14 Type: Unk
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment: Jewett White (1301045)

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	361.93	42.161	908.83
Stddev	1.35	.170	2.58
%RSD	.37358	.40315	.28404
#1	360.96	42.262	906.32
#2	363.47	42.256	908.68
#3	361.35	41.965	911.48

Sample Name: B301115-MS1 Acquired: 01/25/2013 16:00:30 Type: Unk
 Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
 User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
 Comment: Jewett White (1301045)

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	199.4	85910.	284.3	227.3	677.5	194.2	18280.	189.3
Stddev	1.3	165.	.9	.5	1.2	1.0	30.	.1
%RSD	.6279	.1920	.3202	.2388	.1808	.5003	.1668	.0335

#1	199.6	85910.	283.2	227.7	677.6	194.1	18260.	189.4
#2	200.6	85740.	284.8	227.5	676.3	193.4	18270.	189.2
#3	198.1	86070.	284.8	226.7	678.7	195.3	18320.	189.3

Elem	Co2286	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	259.2	305.8	316.9	152500.	195000.	13010.	26330.	26650.
Stddev	.2	.7	1.1	297.	1229.	48.	164.	32.
%RSD	.0868	.2436	.3593	.1945	.6303	.3681	.6240	.1208

#1	259.5	306.6	318.1	152800.	193700.	13040.	26200.	26640.
#2	259.1	305.2	316.6	152600.	195100.	13040.	26510.	26630.
#3	259.1	305.4	315.9	152200.	196100.	12950.	26270.	26690.

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4093.	195.6	5080.	300.6	281.8	192.7	180.1	12220.
Stddev	13.	.2	24.	.5	1.8	1.8	.4	66.
%RSD	.3106	.1022	.4713	.1812	.6245	.9497	.2057	.5368

#1	4101.	195.6	5075.	301.2	283.9	190.7	180.5	12260.
#2	4099.	195.8	5059.	300.2	280.8	194.2	180.1	12150.
#3	4078.	195.4	5106.	300.4	280.8	193.3	179.8	12260.

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	187.8	308.9	1173.	29.54	411.6	572.6
Stddev	.5	.7	2.	1.67	1.3	.4
%RSD	.2823	.2113	.1905	5.637	.3156	.0664

#1	188.4	309.3	1175.	31.11	412.1	572.4
#2	187.6	308.1	1173.	29.70	412.7	572.4
#3	187.4	309.2	1170.	27.80	410.2	573.0

Sample Name: B301115-MS1 Acquired: 01/25/2013 16:00:30 Type: Unk
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment: Jewett White (1301045)

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	358.71	41.707	905.36
Stddev	.99	.101	3.44
%RSD	.27638	.24238	.37975
#1	357.62	41.786	902.35
#2	358.98	41.742	904.63
#3	359.54	41.593	909.11

Sample Name: B301115-MSD1 Acquired: 01/25/2013 16:06:44 Type: Unk
 Method: EPA-ICP P Mode: CONC Corr. Factor: 5.000000
 User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
 Comment: Jewett White (1301045)

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	199.4	87650.	296.7	230.6	687.6	199.4	19120.	194.5
Stddev	1.0	861.	2.3	1.7	7.6	3.6	240.	.6
%RSD	.4914	.9818	.7663	.7405	1.110	1.827	1.255	.2935

#1	198.5	87220.	295.9	232.1	687.5	197.6	19040.	195.1
#2	200.5	88640.	299.2	228.7	695.3	203.6	19390.	194.0
#3	199.3	87090.	294.9	230.9	680.0	197.0	18930.	194.3

Elem	Co2286	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	263.9	311.9	308.0	203500.	207100.	13090.	27450.	27630.
Stddev	.2	.9	5.2	421.	1720.	547.	478.	377.
%RSD	.0753	.3033	1.675	.2067	.8305	4.176	1.742	1.365

#1	264.1	312.5	313.8	204000.	205500.	12730.	27380.	27480.
#2	263.7	312.4	303.8	203300.	208900.	13720.	27960.	28060.
#3	263.9	310.8	306.6	203300.	206900.	12830.	27010.	27350.

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4305.	196.8	4879.	302.6	295.5	191.6	179.3	12850.
Stddev	6.	1.0	60.	.9	2.9	6.3	8.3	428.
%RSD	.1496	.4863	1.233	.2814	.9875	3.296	4.653	3.330

#1	4311.	197.4	4860.	303.5	294.2	189.1	178.6	12430.
#2	4306.	195.7	4947.	302.7	298.8	187.0	171.2	13280.
#3	4298.	197.3	4831.	301.8	293.4	198.8	187.9	12850.

Elem	Sn1899	Sr4077	Ti3349	Ti1908	V2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	192.7	314.8	1201.	49.44	423.9	617.6
Stddev	2.4	2.5	4.	3.76	2.0	1.4
%RSD	1.227	.7896	.3227	7.609	.4758	.2337

#1	191.2	314.1	1197.	45.12	426.2	619.2
#2	191.4	317.5	1200.	52.00	423.0	616.3
#3	195.4	312.7	1205.	51.20	422.5	617.4

Sample Name: B301115-MSD1 Acquired: 01/25/2013 16:06:44 Type: Unk
Method: EPA-ICP P Mode: CONC Corr. Factor: 5.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment: Jewett White (1301045)

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	355.50	39.437	885.71
Stddev	.90	.413	3.77
%RSD	.25211	1.0460	.42548
#1	354.59	39.550	889.92
#2	355.52	38.980	882.63
#3	356.38	39.782	884.59

Sample Name: 1301045-02 Acquired: 01/25/2013 16:12:48 Type: Unk
 Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
 User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
 Comment: Jewett White (1301045)

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2656	61180.	83.84	21.87	466.2	4.152	14500.	1.164
Stddev	.7539	386.	.87	.14	3.0	.115	63.	.022
%RSD	283.8	.6308	1.036	.6278	.6456	2.769	.4329	1.880

#1	-9840	60970.	83.44	21.99	465.5	4.283	14450.	1.160
#2	.5193	61620.	84.84	21.72	469.5	4.071	14570.	1.145
#3	-.3321	60940.	83.25	21.90	463.7	4.101	14480.	1.188

Elem	Co2286	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	65.68	97.54	106.6	148100.	187000.	5674.	19710.	20040.
Stddev	.45	.21	.5	1240.	371.	158.	116.	91.
%RSD	.6837	.2129	.4352	.8373	.1984	2.776	.5898	.4518

#1	65.20	97.31	106.1	146600.	186600.	5796.	19830.	20010.
#2	65.73	97.71	107.0	148900.	187300.	5731.	19690.	20140.
#3	66.10	97.61	106.8	148700.	187100.	5496.	19600.	19960.

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3963.	2.687	246.8	96.71	96.43	5.345	-2.118	2544.
Stddev	10.	.066	16.8	.22	.94	1.448	.589	77.
%RSD	.2632	2.460	6.801	.2247	.9786	27.09	27.82	3.034

#1	3960.	2.676	245.4	96.62	97.14	6.333	-1.516	2609.
#2	3974.	2.627	230.8	96.95	96.80	3.683	-2.694	2565.
#3	3954.	2.758	264.2	96.55	95.36	6.019	-2.146	2459.

Elem	Sn1899	Sr4077	Ti3349	Ti1908	V2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.188	104.7	779.0	-4.229	200.0	385.6
Stddev	.676	.6	2.8	.317	.9	.8
%RSD	56.88	.6059	.3657	7.503	.4401	.2104

#1	-.6223	104.3	776.1	-4.031	200.6	385.2
#2	-1.937	105.5	779.0	-4.595	200.4	386.5
#3	-1.006	104.4	781.8	-4.061	199.0	385.0

Sample Name: 1301045-02 Acquired: 01/25/2013 16:12:48 Type: Unk
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment: Jewett White (1301045)

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	358.26	41.696	905.89
Stddev	1.61	.236	2.59
%RSD	.45072	.56662	.28586
#1	360.03	41.876	908.69
#2	357.86	41.428	903.59
#3	356.87	41.783	905.39

Sample Name: 1301045-03 Acquired: 01/25/2013 16:19:04 Type: Unk
 Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
 User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
 Comment: Jewett White (1301045)

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.526	41330.	109.7	25.38	698.3	2.107	404300.	4.948
Stddev	.773	86.	1.3	.16	3.4	.473	1384.	.057
%RSD	21.93	.2079	1.163	.6146	.4822	22.47	.3422	1.160

#1	3.208	41420.	108.4	25.55	702.1	2.055	405700.	4.993
#2	2.962	41240.	109.7	25.26	697.4	1.661	404100.	4.967
#3	4.407	41320.	111.0	25.32	695.5	2.603	403000.	4.883

Elem	Co2286	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	38.84	123.0	337.0	s 81720.	87960.	6311.	57030.	57980.
Stddev	.20	.0	1.1	513.	291.	88.	92.	128.
%RSD	.5071	.0328	.3144	.6273	.3305	1.400	.1614	.2208

#1	38.67	123.0	338.2	s 82270.	88290.	6405.	57030.	58070.
#2	38.80	122.9	336.1	81250.	87870.	6300.	56940.	57840.
#3	39.05	123.0	336.6	81660.	87730.	6229.	57120.	58040.

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2473.	4.282	1176.	154.4	31560.	15.94	4.581	5246.
Stddev	4.	.100	10.	.4	34.	.36	1.273	77.
%RSD	.1729	2.334	.8239	.2676	.1069	2.266	27.80	1.475

#1	2473.	4.348	1166.	154.5	31550.	15.65	5.108	5210.
#2	2469.	4.330	1185.	154.8	31590.	15.83	5.507	5193.
#3	2478.	4.167	1176.	154.0	31530.	16.34	3.129	5335.

Elem	Sn1899	Sr4077	Ti3349	Ti1908	V2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	36.41	1744.	1714.	-2.623	167.2	1762.
Stddev	.14	.	4.	1.340	.5	2.
%RSD	.3947	.0177	.2160	51.07	.2778	.1374

#1	36.25	1744.	1711.	-3.070	167.4	1760.
#2	36.46	1744.	1713.	-3.682	166.7	1764.
#3	36.52	1745.	1718.	-1.117	167.5	1761.

Sample Name: 1301045-03 Acquired: 01/25/2013 16:19:04 Type: Unk
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment: Jewett White (1301045)

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	338.81	39.588	855.07
Stddev	.42	.041	5.27
%RSD	.12335	.10444	.61622
#1	338.70	39.581	861.16
#2	338.47	39.550	852.11
#3	339.28	39.632	851.95

Sample Name: 1301045-04 Acquired: 01/25/2013 16:25:07 Type: Unk
 Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
 User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
 Comment: Jewett White (1301045)

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.526	82520.	94.17	17.53	348.2	3.590	10180.	2.217
Stddev	.202	258.	1.48	.70	1.2	.696	27.	.049
%RSD	13.21	.3121	1.576	4.014	.3514	19.38	.2605	2.188

#1	-1.331	82230.	94.30	16.85	348.1	4.279	10180.	2.192
#2	-1.515	82640.	92.63	18.26	349.5	2.887	10160.	2.187
#3	-1.734	82700.	95.58	17.47	347.0	3.605	10210.	2.273

Elem	Co2286	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	81.46	177.3	108.4	202200.	284900.	5998.	17630.	18120.
Stddev	.38	.7	1.3	1036.	2094.	68.	158.	22.
%RSD	.4619	.3733	1.160	.5121	.7349	1.137	.8963	.1215

#1	81.02	176.5	109.4	203200.	285000.	5927.	17800.	18100.
#2	81.64	177.5	108.8	202300.	282800.	6063.	17490.	18120.
#3	81.71	177.8	107.0	201200.	287000.	6004.	17590.	18140.

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3628.	8.518	596.1	64.82	265.8	8.903	-2.959	4521.
Stddev	25.	.055	7.2	.58	1.2	1.072	1.883	39.
%RSD	.6922	.6401	1.212	.8932	.4497	12.05	63.64	.8574

#1	3620.	8.514	587.9	64.28	265.7	9.465	-2.005	4489.
#2	3656.	8.465	601.5	64.75	264.6	9.577	-5.129	4511.
#3	3607.	8.574	599.0	65.43	267.0	7.666	-1.744	4564.

Elem	Sn1899	Sr4077	Ti3349	Ti1908	V2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.3505	87.83	1313.	-5.135	319.3	361.2
Stddev	.8227	.34	6.	.523	2.0	2.4
%RSD	234.7	.3845	.4587	10.19	.6190	.6573

#1	1.281	87.44	1309.	-4.851	320.3	358.6
#2	.0528	88.07	1319.	-4.816	320.5	363.1
#3	-.2819	87.97	1310.	-5.739	317.0	362.0

Sample Name: 1301045-04 Acquired: 01/25/2013 16:25:07 Type: Unk
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment: Jewett White (1301045)

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	354.29	40.745	888.02
Stddev	1.25	.056	5.54
%RSD	.35265	.13801	.62440
#1	355.73	40.718	889.28
#2	353.52	40.809	881.95
#3	353.62	40.707	892.82

Sample Name: SEQ-CCV Acquired: 01/25/2013 16:31:25 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144	Co2286
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	201.4	4970.	199.9	198.0	198.7	191.1	4955.	200.2	198.4
Stddev	1.1	32.	3.1	3.5	1.2	1.1	49.	2.8	2.8
%RSD	.5364	.6498	1.539	1.768	.6143	.5518	.9885	1.382	1.418

#1	200.1	4944.	202.8	202.0	198.6	190.2	4901.	203.4	201.6
#2	201.8	5007.	200.1	196.0	200.0	190.9	4968.	198.3	196.4
#3	202.2	4961.	196.6	195.9	197.5	192.2	4997.	198.9	197.1

[illegible]

Elem	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852	Mn2576	Mo2020
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	201.3	199.2	4975.	4835.	5014.	4850.	4959.	200.1	199.4
Stddev	2.8	.8	21.	70.	25.	71.	30.	.6	3.1
%RSD	1.398	.4118	.4248	1.457	.5015	1.467	.6130	.2877	1.567

#1	204.5	200.1	4966.	4775.	4998.	4810.	4946.	199.8	202.9
#2	199.3	198.5	4959.	4818.	5000.	4808.	4937.	199.8	197.1
#3	200.0	199.1	4999.	4912.	5043.	4932.	4993.	200.8	198.2

[illegible]

Sample Name: SEQ-CCV Acquired: 01/25/2013 16:31:25 Type: QC
 Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
 User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
 Comment:

Elem	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516	Sn1899	Sr4077	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4949.	199.1	199.7	196.1	199.2	4763.	195.7	201.7	197.7
Stddev	16.	3.0	2.6	3.5	4.4	126.	3.3	.8	.4
%RSD	.3191	1.485	1.310	1.801	2.224	2.651	1.688	.3976	.2160
#1	4932.	202.5	202.7	200.1	204.2	4617.	199.2	201.3	197.4
#2	4962.	197.2	198.0	194.9	197.3	4836.	192.6	201.2	197.4
#3	4955.	197.6	198.3	193.4	196.0	4836.	195.3	202.6	198.2

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb
Avg	198.0	194.9	202.4
Stddev	1.7	.9	2.6
%RSD	.8406	.4803	1.287
#1	199.9	194.8	205.4
#2	197.4	193.9	200.5
#3	196.8	195.8	201.3

Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

Sample Name: SEQ-CCV Acquired: 01/25/2013 16:31:25 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	358.37	39.066	883.06
Stddev	4.31	.223	6.56
%RSD	1.2032	.56970	.74245

#1	353.39	39.299	890.44
#2	360.87	39.044	880.81
#3	360.84	38.855	877.92

Sample Name: SEQ-CCB Acquired: 01/25/2013 16:37:33 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144	Co2286
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-3533	-18.93	.9829	.2484	-.2876	.0008	-31.23	.0219	-.0445
Stddev	.3617	12.42	1.354	.6455	.3735	.5046	16.33	.0277	.1170
%RSD	102.4	65.59	137.7	259.8	129.9	67200.	52.28	126.7	263.0
#1	-.5914	-8.618	2.485	.9799	-.1299	-.3784	-46.09	.0280	.0402
#2	-.5314	-15.46	.6058	.0067	-.0187	.5735	-13.75	-.0084	-.1780
#3	.0629	-32.71	-.1424	-.2413	-.7140	-.1929	-33.87	.0459	.0043

[illegible]

Elem	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852	Mn2576	Mo2020
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.1000	.0452	.3987	25.80	35.84	-51.56	12.49	.1446	.1305
Stddev	.0268	.7413	1.589	32.49	49.00	22.55	15.80	.0590	.1739
%RSD	26.83	1638.	398.5	125.9	136.7	43.73	126.5	40.82	133.2
#1	.1308	.9004	-.1634	51.57	92.35	-74.05	29.71	.1319	.2826
#2	.0877	-.4148	2.192	-10.70	5.162	-51.68	9.121	.2089	.1681
#3	.0816	-.3498	-.8326	36.53	9.995	-28.95	-1.352	.0929	-.0591

[illegible]

Sample Name: SEQ-CCB Acquired: 01/25/2013 16:37:33 Type: QC
 Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
 User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
 Comment:

Elem	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516	Sn1899	Sr4077	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-27.44	-.2624	.0184	.1526	.8796	-32.29	-.1467	-.0626	.0712
Stddev	24.95	.2306	.4418	.8555	.4006	28.14	.9637	.1236	.1384
%RSD	90.93	87.90	2396.	560.7	45.54	87.12	657.1	197.5	194.3
#1	-32.77	-.5210	.2090	-.7339	.4172	-28.76	.3464	.0146	-.0616
#2	-49.30	-.1881	.3330	.9733	1.121	-62.03	.4707	.0027	.2146
#3	-.2545	-.0780	-.4867	.2182	1.100	-6.091	-1.257	-.2051	.0606

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ti1908	V2924	Zn2062
Units	ppb	ppb	ppb
Avg	.9167	.8946	.6723
Stddev	.4977	.8746	.0864
%RSD	54.29	97.77	12.86
#1	.3429	-.1105	.5999
#2	1.176	1.311	.6491
#3	1.231	1.483	.7680

Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Sample Name: SEQ-CCB Acquired: 01/25/2013 16:37:33 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	352.11	38.811	863.12
Stddev	.48	.336	5.99
%RSD	.13573	.86511	.69357

#1	352.00	39.132	869.35
#2	351.69	38.838	862.60
#3	352.63	38.462	857.41

Sample Name: 1301045-05 Acquired: 01/25/2013 16:43:45 Type: Unk
 Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
 User: WRickert SOP C-109/DW-5 IRIS Intrepid II XDL S/N12816:
 Comment: Jewett White (1301045)

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.708	65060.	199.1	16.26	606.3	3.925	98270.	4.752
Stddev	.486	128.	2.4	.38	3.7	.309	329.	.098
%RSD	28.43	.1966	1.201	2.308	.6167	7.869	.3345	2.057

#1	1.622	65020.	196.5	16.47	609.7	3.918	98240.	4.640
#2	2.231	64960.	199.5	16.48	602.3	3.620	97970.	4.798
#3	1.271	65210.	201.3	15.82	606.9	4.238	98620.	4.818

Elem	Co2286	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	54.69	133.8	302.2	132200.	156000.	6179.	38350.	39940.
Stddev	.18	.2	.4	213.	1094.	24.	143.	152.
%RSD	.3331	.1505	.1429	.1611	.7011	.3876	.3741	.3804

#1	54.51	134.0	301.9	132200.	154800.	6151.	38470.	39960.
#2	54.88	133.8	302.0	132100.	156500.	6196.	38190.	39780.
#3	54.68	133.6	302.7	132500.	156800.	6189.	38380.	40080.

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1559.	6.112	1361.	103.6	13980.	13.51	-.0755	4999.
Stddev	2.	.194	11.	.2	25.	1.01	.7239	77.
%RSD	.1334	3.169	.7988	.2224	.1802	7.440	958.6	1.540

#1	1560.	6.030	1354.	103.4	13950.	13.09	-.8885	5083.
#2	1556.	6.333	1355.	103.4	13980.	14.66	.4994	4932.
#3	1559.	5.973	1374.	103.8	14000.	12.79	.1625	4981.

Elem	Sn1899	Sr4077	Ti3349	Ti1908	V2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	25.59	319.8	1381.	-3.510	255.8	2618.
Stddev	.82	1.3	7.	1.180	.9	4.
%RSD	3.185	.4032	.4766	33.62	.3708	.1404

#1	25.10	320.0	1376.	-4.677	256.1	2619.
#2	26.53	318.4	1378.	-3.534	254.8	2614.
#3	25.14	320.9	1388.	-2.318	256.6	2621.

Sample Name: 1301045-05 Acquired: 01/25/2013 16:43:45 Type: Unk
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment: Jewett White (1301045)

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	342.08	40.433	878.49
Stddev	.49	.197	1.81
%RSD	.14223	.48699	.20613
#1	342.28	40.508	879.37
#2	342.43	40.581	879.69
#3	341.52	40.210	876.41

Sample Name: 1301045-06 Acquired: 01/25/2013 16:50:01 Type: Unk
 Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
 User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
 Comment: Jewett White (1301045)

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	6.213	50120.	245.9	42.65	1181.	4.158	56410.	16.06
Stddev	.341	104.	.9	.07	5.	.369	249.	.07
%RSD	5.490	.2079	.3529	.1698	.4205	8.872	.4413	.4333

#1	5.946	50170.	246.0	42.57	1186.	4.166	56580.	16.00
#2	6.096	50190.	245.0	42.68	1182.	3.784	56530.	16.03
#3	6.597	50000.	246.7	42.70	1176.	4.522	56120.	16.13

Elem	Co2286	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	58.89	151.3	1286.	109400.	125000.	4035.	21180.	21510.
Stddev	.16	.2	4.	521.	36.	20.	118.	73.
%RSD	.2791	.1466	.2883	.4762	.0286	.4910	.5558	.3378

#1	59.08	151.4	1285.	109000.	125000.	4055.	21130.	21550.
#2	58.80	151.5	1291.	109100.	125100.	4016.	21310.	21560.
#3	58.79	151.1	1284.	110000.	125000.	4034.	21090.	21430.

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2505.	21.26	1417.	203.8	64000.	57.63	53.50	5435.
Stddev	6.	.27	10.	.3	21.	.65	1.73	60.
%RSD	.2521	1.259	.6793	.1390	.0329	1.133	3.242	1.104

#1	2498.	20.95	1407.	203.7	64000.	56.93	51.55	5496.
#2	2506.	21.40	1426.	203.6	63980.	57.76	54.09	5376.
#3	2510.	21.43	1417.	204.1	64020.	58.21	54.87	5433.

Elem	Sn1899	Sr4077	Ti3349	Ti1908	V2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	112.5	339.0	2099.	.8636	338.6	13260.
Stddev	.6	1.0	9.	.7860	.7	44.
%RSD	.5396	.3076	.4373	91.02	.2195	.3282

#1	112.5	340.2	2091.	.9763	338.2	13210.
#2	111.9	338.5	2097.	1.587	339.5	13270.
#3	113.1	338.3	2109.	.0273	338.1	13290.

Sample Name: 1301045-06 Acquired: 01/25/2013 16:50:01 Type: Unk
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment: Jewett White (1301045)

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	367.94	42.136	926.17
Stddev	.69	.104	2.77
%RSD	.18870	.24774	.29926
#1	368.73	42.090	929.34
#2	367.43	42.063	924.97
#3	367.66	42.256	924.20

Sample Name: 1301048-01 Acquired: 01/25/2013 16:56:18 Type: Unk
 Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
 User: WRickert : SOP C-109/DW-5; IRIS Intrepid II XDL S/N12816:
 Comment: Jewett White (1301048)

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-5634	53340.	101.0	18.77	169.3	3.741	10910.	.8413
Stddev	.3560	52.	.7	.53	.4	.499	53.	.0530
%RSD	63.19	.0983	.7408	2.808	.2533	13.35	.4817	6.299

#1	-.1530	53370.	100.1	18.45	169.5	4.245	10930.	.8926
#2	-.7476	53360.	101.6	19.38	169.6	3.246	10950.	.8444
#3	-.7895	53280.	101.2	18.48	168.8	3.731	10850.	.7868

Elem	Co2286	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	50.76	89.96	98.19	132700.	155500.	5122.	19450.	19590.
Stddev	.14	.14	.61	1113.	909.	83.	112.	26.
%RSD	.2735	.1566	.6203	.8388	.5843	1.619	.5737	.1352

#1	50.73	89.92	98.74	133900.	154900.	5211.	19320.	19610.
#2	50.92	90.12	98.28	131800.	155100.	5107.	19520.	19590.
#3	50.64	89.84	97.54	132500.	156600.	5047.	19510.	19560.

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2795.	3.180	303.9	86.84	115.3	4.195	-1.358	4560.
Stddev	26.	.168	19.8	.37	1.6	1.389	1.330	74.
%RSD	.9167	5.275	6.529	.4214	1.375	33.11	97.90	1.632

#1	2825.	3.274	312.3	87.25	116.1	4.076	.1686	4529.
#2	2782.	3.279	318.1	86.56	116.2	2.869	-2.261	4506.
#3	2779.	2.986	281.2	86.70	113.4	5.639	-1.982	4645.

Elem	Sn1899	Sr4077	Ti3349	Ti1908	V2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.580	88.51	865.7	-4.236	247.6	377.1
Stddev	.500	.13	8.1	.385	2.2	1.3
%RSD	31.65	.1413	.9345	9.096	.8770	.3410

#1	-1.808	88.43	875.1	-3.794	249.9	377.9
#2	-1.007	88.44	860.8	-4.412	247.2	377.9
#3	-1.926	88.66	861.4	-4.502	245.6	375.7

Sample Name: 1301048-01 Acquired: 01/25/2013 16:56:18 Type: Unk
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment: Jewett White (1301048)

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	370.56	41.662	920.15
Stddev	.16	.073	6.48
%RSD	.04308	.17550	.70380
#1	370.46	41.691	912.67
#2	370.47	41.717	923.73
#3	370.74	41.579	924.04

Sample Name: 1301048-02 Acquired: 01/25/2013 17:02:35 Type: Unk
 Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
 User: WRickert : SOP C-109/DW-5; IRIS Intrepid II.XDL S/N12816:
 Comment: Jewett White (1301048)

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-3010	54340.	105.3	19.77	174.2	4.150	10550.	.8972
Stddev	.1622	273.	1.7	.34	1.0	.400	41.	.0354
%RSD	53.90	.5031	1.606	1.698	.5754	9.638	.3925	3.941

#1	-4861	54640.	106.6	19.39	175.2	4.252	10600.	.9155
#2	-.2329	54280.	103.4	20.04	174.3	3.709	10520.	.8565
#3	-.1839	54100.	106.0	19.86	173.2	4.490	10530.	.9197

Elem	Co2286	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	51.33	91.76	100.6	135300.	161900.	5305.	19620.	19750.
Stddev	.14	.63	.7	331.	623.	68.	323.	145.
%RSD	.2803	.6886	.6730	.2449	.3851	1.287	1.645	.7344

#1	51.30	92.15	101.2	135200.	162500.	5244.	19960.	19920.
#2	51.49	92.10	100.5	135700.	161800.	5379.	19570.	19660.
#3	51.20	91.03	99.90	135100.	161200.	5293.	19320.	19680.

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2679.	3.380	212.6	87.63	122.1	4.806	-2.247	4565.
Stddev	17.	.145	10.1	.34	.2	.870	.724	59.
%RSD	.6507	4.279	4.770	.3877	.1399	18.10	32.24	1.284

#1	2699.	3.352	203.9	87.31	122.3	4.108	-2.954	4524.
#2	2666.	3.252	223.8	87.99	122.0	5.781	-2.279	4632.
#3	2673.	3.537	210.1	87.59	122.1	4.531	-1.507	4538.

Elem	Sn1899	Sr4077	Ti3349	Ti1908	V2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.462	89.71	870.9	-3.602	255.1	347.8
Stddev	.058	.39	4.2	.385	2.4	1.5
%RSD	3.976	.4369	.4879	10.70	.9425	.4213

#1	-1.526	90.16	874.9	-3.591	257.8	348.0
#2	-1.413	89.43	866.4	-3.993	254.1	349.1
#3	-1.446	89.54	871.5	-3.223	253.3	346.2

Sample Name: 1301048-02 Acquired: 01/25/2013 17:02:35 Type: Unk
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment: Jewett White (1301048)

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	370.55	41.338	926.92
Stddev	1.36	.219	4.29
%RSD	.36569	.53004	.46323
#1	370.07	41.142	922.00
#2	369.50	41.299	929.93
#3	372.08	41.575	928.84

Sample Name: SEQ-CCV Acquired: 01/25/2013 17:08:52 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

[illegible][illegible]

Sample Name: SEQ-CCV Acquired: 01/25/2013 17:08:52 Type: QC
 Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
 User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
 Comment:

Elem	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516	Sn1899	Sr4077	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4921.	197.8	196.8	193.8	197.8	4698.	193.8	201.1	196.9
Stddev	17.	.3	.9	.5	1.7	116.	.8	.6	.3
%RSD	.3440	.1661	.4387	.2652	.8626	2.464	.4114	.3010	.1760
#1	4940.	197.8	197.4	193.9	198.9	4665.	193.2	201.7	196.7
#2	4916.	197.4	195.8	194.3	198.6	4602.	194.7	200.5	196.7
#3	4908.	198.1	197.2	193.3	195.8	4826.	193.4	201.0	197.3

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb
Avg	194.3	195.0	203.3
Stddev	2.3	.8	.6
%RSD	1.208	.4023	.3151
#1	192.4	195.7	202.6
#2	193.5	194.2	203.3
#3	196.9	195.2	203.9

Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

Sample Name: SEQ-CCV Acquired: 01/25/2013 17:08:52 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	370.98	38.888	906.53
Stddev	.40	.165	7.98
%RSD	.10672	.42314	.87990
#1	370.58	38.733	913.73
#2	371.00	39.060	907.90
#3	371.37	38.870	897.95

Sample Name: SEQ-CCB Acquired: 01/25/2013 17:15:00 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II-XDL S/N12816:
Comment:

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144	Co2286
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.0248	1.114	1.786	.2334	-.0537	.1980	.7144	.0196	-.0154
Stddev	.2319	16.31	1.360	.3204	.3589	.2337	22.03	.0467	.0637
%RSD	934.2	1464.	76.17	137.3	668.7	118.0	3083.	238.7	414.4

#1	-1854	-17.19	2.667	.3378	.3523	.4678	22.69	.0311	.0440
#2	-1301	6.440	.2191	.4886	-.3288	.0603	-21.36	.0594	-.0827
#3	.2411	14.09	2.471	-.1262	-.1846	.0658	.8150	-.0318	-.0074

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852	Mn2576	Mo2020
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0135	-.0715	2.413	27.76	-71.83	-62.93	-5.538	.1334	.0314
Stddev	.0762	.1352	2.060	65.35	82.16	78.91	9.167	.0675	.1601
%RSD	564.4	189.1	85.35	235.4	114.4	125.4	165.5	50.57	509.4

#1	-.0475	.0729	.4772	4.940	-84.98	-29.02	-14.27	.2037	.1659
#2	-.0109	-.0923	4.577	101.5	-146.6	-6.632	4.012	.0692	.0740
#3	.0989	-.1952	2.184	-23.12	16.11	-153.1	-6.358	.1274	-.1457

[illegible]

Sample Name: SEQ-CCB Acquired: 01/25/2013 17:15:00 Type: QC
 Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
 User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
 Comment:

Elem	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516	Sn1899	Sr4077	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-20.62	-.0105	-.1754	.3887	.8701	86.10	-.6742	-.0216	.0508
Stddev	6.58	.3366	.7008	1.478	.6005	86.15	.6618	.0513	.0989
%RSD	31.92	3203.	399.6	380.2	69.01	100.1	98.17	237.3	194.6
#1	-19.73	.0420	.1044	.4910	1.215	60.72	-1.050	-.0604	.1332
#2	-27.61	-.3703	.3424	1.813	.1768	15.49	-1.063	.0366	.0783
#3	-14.53	.2968	-.9729	-1.138	1.218	182.1	.0900	-.0410	-.0589

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ti1908	V2924	Zn2062
Units	ppb	ppb	ppb
Avg	-.6233	1.060	.8116
Stddev	.8397	.286	.0745
%RSD	134.7	26.99	9.181
#1	.3427	1.194	.8244
#2	-1.033	1.256	.8790
#3	-1.179	.7318	.7316

Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Sample Name: SEQ-CCB Acquired: 01/25/2013 17:15:00 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	363.13	38.887	882.77
Stddev	.90	.174	6.13
%RSD	.24909	.44819	.69471

#1	362.55	38.694	889.51
#2	364.17	39.033	877.52
#3	362.67	38.934	881.28

Sample Name: SEQ-LCV3 Acquired: 01/25/2013 17:21:13 Type: QC
 Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
 User: WRickert SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
 Comment:

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144	Co2286
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.555	119.9	9.932	12.57	105.9	2.748	545.9	3.709	23.53
Stddev	.253	16.4	.770	.33	1.2	.213	17.5	.061	.11
%RSD	5.564	13.70	7.751	2.641	1.086	7.763	3.204	1.659	.4750

#1	4.836	132.4	9.630	12.40	107.1	2.994	540.7	3.767	23.66
#2	4.486	126.0	9.359	12.36	104.8	2.613	565.5	3.644	23.45
#3	4.344	101.3	10.81	12.95	105.9	2.637	531.7	3.716	23.48

Check ? Value Range	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
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Elem	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852	Mn2576	Mo2020
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5.829	10.16	54.45	F 76.36	413.3	453.2	542.9	5.913	10.64
Stddev	.114	.34	.92	64.38	51.2	138.3	5.9	.090	.23
%RSD	1.954	3.334	1.684	84.31	12.40	30.51	1.079	1.517	2.205

#1	5.936	10.42	55.51	17.43	355.1	387.4	545.1	6.005	10.86
#2	5.709	9.773	54.00	66.58	451.6	360.1	536.3	5.910	10.39
#3	5.842	10.28	53.85	145.1	433.2	612.1	547.3	5.825	10.67

Check ? Value Range	Chk Pass	Chk Pass	Chk Pass	Chk Fail 50.00 30.00%	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
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Sample Name: SEQ-LCV3 Acquired: 01/25/2013 17:21:13 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516	Sn1899	Sr4077	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1036.	20.71	8.534	21.88	22.65	526.3	10.48	11.42	10.38
Stddev	8.	.15	.500	1.50	1.34	50.1	.24	.16	.20
%RSD	.7416	.7091	5.859	6.842	5.902	9.513	2.335	1.400	1.913
#1	1036.	20.88	8.774	22.48	24.15	480.7	10.21	11.57	10.61
#2	1028.	20.64	8.869	20.18	22.24	518.3	10.54	11.46	10.24
#3	1043.	20.62	7.959	22.98	21.57	579.9	10.68	11.25	10.30

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Ti1908	V2924	Zn2062
Units	ppb	ppb	ppb
Avg	19.38	22.05	23.81
Stddev	.49	.67	.12
%RSD	2.520	3.016	.4924
#1	19.78	21.46	23.95
#2	19.52	22.77	23.74
#3	18.84	21.91	23.75

Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

Sample Name: SEQ-LCV3 Acquired: 01/25/2013 17:21:13 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	364.42	39.190	886.33
Stddev	2.36	.251	2.34
%RSD	.64820	.63997	.26418

#1	361.94	39.006	888.92
#2	366.64	39.475	885.72
#3	364.68	39.088	884.36

Sample Name: SEQ-LCV4 Acquired: 01/25/2013 17:27:24 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II: XDL S/N12816:
Comment:

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144	Co2286
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	10.24	233.3	18.52	24.51	215.3	6.031	1110.	7.411	47.17
Stddev	.76	14.6	.04	.49	1.0	.112	17.	.047	.19
%RSD	7.449	6.283	.2010	2.000	.4435	1.861	1.524	.6332	.4127
#1	10.99	243.0	18.56	24.79	215.7	6.080	1124.	7.376	47.23
#2	10.26	240.4	18.51	23.95	214.2	5.902	1113.	7.393	46.95
#3	9.463	216.4	18.49	24.81	215.9	6.110	1091.	7.465	47.33

[illegible]

Elem	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852	Mn2576	Mo2020
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	11.77	20.29	110.2	109.2	1175.	1066.	1080.	11.56	21.26
Stddev	.06	.73	.6	29.3	77.	58.	23.	.10	.05
%RSD	.4933	3.600	.5388	26.88	6.520	5.484	2.142	.8899	.2317
#1	11.80	21.11	110.1	92.41	1113.	1133.	1076.	11.65	21.31
#2	11.82	19.71	110.9	92.11	1261.	1039.	1059.	11.58	21.21
#3	11.71	20.05	109.7	143.1	1151.	1026.	1105.	11.45	21.27

[illegible]

Sample Name: SEQ-LCV4 Acquired: 01/25/2013 17:27:24 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516	Sn1899	Sr4077	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2088.	41.79	16.66	43.63	43.88	1049.	20.55	23.15	20.43
Stddev	32.	.25	1.03	.36	.54	57.	.40	.09	.16
%RSD	1.528	.5875	6.211	.8234	1.239	5.442	1.934	.3720	.7803
#1	2070.	42.02	17.37	43.73	43.25	1059.	20.96	23.10	20.30
#2	2069.	41.81	17.15	43.93	44.24	1100.	20.17	23.09	20.61
#3	2125.	41.53	15.47	43.23	44.14	987.0	20.50	23.25	20.38

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb
Avg	40.25	43.41	45.86
Stddev	1.27	.35	.12
%RSD	3.161	.8177	.2661
#1	38.88	43.77	45.76
#2	40.50	43.39	45.82
#3	41.39	43.07	46.00

Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

Sample Name: SEQ-LCV4 Acquired: 01/25/2013 17:27:24 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	364.47	38.907	887.45
Stddev	.54	.177	4.20
%RSD	.14921	.45385	.47325

#1	363.89	38.924	892.27
#2	364.98	39.074	885.48
#3	364.53	38.722	884.59

Sample Name: SEQ-IFA2 Acquired: 01/25/2013 17:33:34 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-6142	319700.	1.488	-3.090	-4564	.2455	302800.	1.844
Stddev	.8006	1307.	.474	.434	.4253	.3484	1311.	.032
%RSD	130.4	.4088	31.85	14.06	93.18	141.9	.4328	1.753

#1	-9751	320100.	1.985	-2.627	-.7262	-.1106	304100.	1.864
#2	-1.171	318300.	1.041	-3.154	-.6769	.2614	301500.	1.860
#3	.3033	320800.	1.438	-3.489	.0338	.5857	302800.	1.806

Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.807	1.752	-3.569	200500.	270300.	213.8	317100.	271900.
Stddev	.186	.065	.358	1442.	1199.	86.6	959.	1238.
%RSD	6.615	3.726	10.02	.7192	.4438	40.52	.3025	.4552

#1	-2.602	1.799	-3.971	201200.	270800.	130.1	318200.	273200.
#2	-2.855	1.678	-3.288	198800.	268900.	208.3	316400.	270800.
#3	-2.963	1.780	-3.447	201300.	271100.	303.1	316700.	271700.

Check ?	Chk Pass	Chk Pass	Chk Pass	None	None	Chk Pass	None	None
High Limit								
Low Limit								

Sample Name: SEQ-IFA2 Acquired: 01/25/2013 17:33:34 Type: QC
 Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
 User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
 Comment:

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.6553	-1.537	324400.	-7.808	.8468	4.862	-1.359	-302.1
Stddev	.1764	.365	1691.	.369	1.548	1.779	.536	128.3
%RSD	26.92	23.73	.5214	4.725	182.8	36.59	39.41	42.47
#1	-8417	-1.238	325500.	-7.755	-.1408	6.909	-1.359	-449.7
#2	-4910	-1.943	322400.	-8.200	.0509	3.685	-1.895	-238.8
#3	-6331	-1.428	325100.	-7.468	2.630	3.992	-.8239	-217.7

Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Sn1899	Sr4077	Ti3349	Ti1908	V2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.406	4.150	-3.313	-6.122	6.711	3.607
Stddev	.464	.055	.159	.994	1.023	.165
%RSD	33.00	1.319	4.809	16.23	15.24	4.562
#1	1.466	4.108	-3.230	-6.060	7.001	3.796
#2	1.836	4.212	-3.497	-5.161	7.558	3.528
#3	.9144	4.130	-3.213	-7.146	5.575	3.496

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: SEQ-IFA2 Acquired: 01/25/2013 17:33:34 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	323.58	37.177	823.30
Stddev	.57	.101	1.08
%RSD	.17736	.27142	.13112

#1	323.07	37.237	822.10
#2	324.20	37.233	823.62
#3	323.48	37.060	824.19



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

2/1/2013

ICP-AES QA/QC Checklist for BATCH B301149

Jewett White Lead - 1212042

1301061

Analysis

Lead ICP

Matrix

Solid

Method

EPA 200.7 / SOP C-109 Rev3.2

Sample result data

Minimum of 1 Standard + Blank?

YES

Analyst Initials

RR

Date

01/31/2013

Continuing Calibration

Correlation Coefficients > 0.995 for each element for > 2 point calibration?

YES

Analyst Initials

RR

Date

01/31/2013

Initial Calibration check

ICV and ICB run immediately after Calibration Standards?

YES

Analyst Initials

RR

Date

01/31/2013

ICV recoveries within $\pm 5\%$ DW/NPDES, $\pm 10\%$ other programs?

YES

RR

01/31/2013

ICB < Reporting Limit?

YES

RR

01/31/2013

RL Low Level recovery $\pm 30\%$?

YES

RR

01/31/2013

2RL Low Level Recovery $\pm 30\%$?

YES

RR

01/31/2013

Continuing Calibration

CCV and CCB run at least after every ten samples & at end of run?

YES

Analyst Initials

RR

Date

01/31/2013

CCV recoveries within $\pm 10\%$ DW/NPDES; $\pm 20\%$ other programs?

YES

RR

01/31/2013

CCBs < Reporting Limit?

YES

RR

01/31/2013

Sample result data

IOS < Reporting Limit for all elements?

YES

Analyst Initials

RR

Date

01/31/2013

Performance check

RSD for all QC results > Reporting Limit within 20%?

YES

Analyst Initials

RR

Date

01/31/2013

* = Automated Response from Promium



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

2/1/2013

ICP-AES QA/QC Checklist for BATCH B301149

Jewett White Lead - 1212042

1301061

<u>Analysis</u>	<u>Matrix</u>	<u>Method</u>	
Lead ICP	Solid	EPA 200.7 / SOP C-109 Rev3.2	
Instrument Analysis Log Book entries completed?	NA	RR	01/31/2013
Percent Solids Log Book info entries completed?	YES	RR	01/31/2013
pH Log Book Log Book info entries completed?	NA	RR	01/31/2013

Final Review

	<u>Analyst Initials</u>	<u>Date</u>
Example calculation present and correct?	YES * RR	01/31/2013
<i>Example calculation for Jewett White P-1212042 present in package from W.O. # 1301023</i>		
Peer reviewed? Date and person responsible.	YES * LEB	02/01/2013

Reviewed by LEB 02/01/13. Set to Reviewed status and released by NT

*4K
02/01/13*



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Metals Sample Prep
Batch ID: B301149

Prepared by: RR
Prepared on: 01/30/2013

Matrix Type: Solid
Method (SOP)

DigiBloc ID: 1
Temp(Deg C) Start/Final: 95/95

EPA 200.7 / SOP C-109 Rev3.2

Standards and Reagents

Standard	Description	Expiration Date
D2C0708	HNO ₃ , Concentrated	03/05/2016
D2H1612	Metals in Soil Certified Reference Material	10/31/2015
D2H2417	HCL, Concentrated	07/31/2017
D2L0305	ICP Spike Mix #1, Trace 50 mg/L	12/03/2013
D2L0306	ICP Spike Mix #2, Salts + Sn	12/03/2013

Project Name	Sample ID	pH<2	Balance	Filtered	Initial Wt(g)/ Vol(ml)	Final Vol(ml)	Spike 1 ID	Spike 1 Wt(mg)/ Vol(ul)	Spike 2 ID	Spike 2 Wt(mg)/ Vol(ul)	Source ID
Jewett White Lead - 1212042	1301061-01	N/A	25B	Yes	0.5157	50					
	1301061-02	N/A	25B	Yes	0.5065	50					
	B301149-BLK1	N/A	25B	Yes	0.5107	50		0		0	
	B301149-MS1	N/A	25B	Yes	0.516	50	D2L0305	200	D2L0306	200	1301061-01
	B301149-MSD1	N/A	25B	Yes	0.516	50	D2L0305	200	D2L0306	200	1301061-01
	B301149-SRM1	N/A	25B	Yes	0.5003	50	D2H1612	500.3		0	
	B301149-SRM2	N/A	25B	Yes	0.5046	50	D2H1612	504.6		0	

Comments:

**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY****Region 2 Laboratory****ANALYSIS SEQUENCE****S301080**

Instrument: ICAP 6300

Printed: 1/31/2013 2:30:08PM

Project Name	Lab Number	Analysis	STD ID
	S301080-CAL1	QC	D3A1531
	S301080-CAL2	QC	D2K1202
	S301080-CAL3	QC	D2K1203
	S301080-ICV1	QC	D2K1204
	S301080-ICB1	QC	D3A1531
	S301080-LCV1	QC	D2K1206
	S301080-LCV2	QC	D2K1207
	S301080-IFA1	QC	D2K1208
	B301149-BLK1	QC	
	B301149-SRM1	QC	
	B301149-SRM2	QC	
Jewett White Lead - 1212042	1301061-01	Lead ICP	
	B301149-MS1	QC	
	B301149-MSD1	QC	
Jewett White Lead - 1212042	1301061-02	Lead ICP	
	S301080-CCV1	QC	D2K1204
	S301080-CCB1	QC	D3A1531
	S301080-LCV3	QC	D2K1206
	S301080-LCV4	QC	D2K1207
	S301080-IFA2	QC	D2K1208

	Pos ID	Type	SampleName	Comment	Instrument	Method	ConFact	Check	Check Table	Fail Action
1	1	QC	B301149-BLK1		ICAP6300	SOP-C-109	1	<input checked="" type="checkbox"/>	PBS	None
2	2	QC	B301149-SRM1		ICAP6300	SOP-C-109	1	<input checked="" type="checkbox"/>	LCSS	None
3	3	QC	B301149-SRM2		ICAP6300	SOP-C-109	1	<input checked="" type="checkbox"/>	LCSS	None
4	4	Unk	1301061-01	JEWETT WHITE (1212042)	ICAP6300	SOP-C-109	1	<input checked="" type="checkbox"/>	LDR	---
5	5	Unk	B301149-MS1	JEWETT WHITE (1212042)	ICAP6300	SOP-C-109	1	<input checked="" type="checkbox"/>	LDR	---
6	6	Unk	B301149MSD1@5	JEWETT WHITE (1212042)	ICAP6300	SOP-C-109	1	<input checked="" type="checkbox"/>	LDR	---
7	7	Unk	1301061-02	JEWETT WHITE (1212042)	ICAP6300	SOP-C-109	1	<input checked="" type="checkbox"/>	LDR	---

Lock# : 0200626

Balance#: 39

Page #: 147

Oven#: D-92

Method: CLP SOW; 5.00-10.00g sample dried at 103-105 degC for 12-24 hours.

Note: Before starting the % Solids determination, an aliquot should be taken as follows:

(PLEASE CIRCLE HOW ALIQUOT WAS OBTAINED)

A. For Organic analyses, except VOA: decant any standing water.

(B) For other analyses: mix the sample thoroughly.

Name of Survey(s):	Jewett white
--------------------	--------------

Work Order Number:	1301061
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Date placed in oven at 103-105degC:

1/30/2013

Time:

16:10

AM/PM

Date removed from oven at 103-105degC:

1/31/2013

Time:

10:15

AMXPM

SAMPLE ID	WT OF DISH	WT OF DISH + WET/AIR- DRIED SAMPLE	WT OF DISH + DRIED SAMPLE	PERCENT SOLIDS	PERCENT MOISTURE	CHECK IF AIR-DRIED
	(grams)	(grams)	(grams)			
	-A-	-B-	-C-			
1301061-01	1.1787	9.0659	9.0375	99.64%	0.36%	
1301061-01 Dup	1.1851	9.3542	9.3282	99.68%	0.32%	
1301061-02	1.1753	9.7046	9.6767	99.67%	0.33%	
				#DIV/0!	#DIV/0!	
				#DIV/0!	#DIV/0!	
				#DIV/0!	#DIV/0!	
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				#DIV/0!	#DIV/0!	
				#DIV/0!	#DIV/0!	
			Average	Av % Solids	Av % Moisture	RPD % Solids RPD % Moisture
						RPD<20% RPD<20%
				99.66%	0.34%	0.04% 12.33%

***Duplicate Must Be From First Sample Entered on the List for Correct RPD**

PERCENT =	C - A	(*100)	PERCENT =	B - C	(*100)
SOLIDS	B - A		MOISTURE	B - A	
Analyst	<u>R. R. C. To</u>		Validated By/Date:	<u>SS 1/31/2013</u>	

SUMMARY - VERTICAL REPORT

	Blank	MID STD	HIGH STD	S301080-ICV1	S301080-ICB1	S301080-LCV1	S301080-LCV2	S301080-IFA1
	31 Jan 2013 10:22:52	31 Jan 2013 10:27:26	31 Jan 2013 10:31:58	31 Jan 2013 10:37:07	31 Jan 2013 10:41:34	31 Jan 2013 10:46:10	31 Jan 2013 10:50:43	31 Jan 2013 10:55:16
Ag3280	.0004	.3728	.7308	198.8	-.4479	5.233	9.806	-.7443
Al3981R	.0005	.2215	.4434	4833.	9.594	95.49	177.2	307500.
As1890	.0002	.2018	.4056	196.5	-2.284	5.643	13.35	.2407
B_2089	.0006	.4080	.8178	209.2	8.828	12.87	23.28	F 19.51
Ba4554R	.0104	11.02	21.46	197.3	-.0911	96.65	196.1	.3840
Be3131R	.0007	11.41	22.62	198.1	.1777	3.193	6.001	.2115
Ca3179R	.0134	.6410	1.264	5054.	3.937	488.6	994.9	284800.
Cd2265	.0004	7.686	15.34	205.3	.0951	3.003	5.811	F 7.680
Co2286	-.0003	2.554	5.130	194.1	.4544	19.69	37.87	-.4502
Cr2677	.0000	3.170	6.332	212.6	.2415	5.841	11.80	-1.638
Cu3247	.0182	5.173	10.24	199.7	.4650	10.03	20.24	1.689
Fe2599R	.0003	.3494	.6944	5033.	-.6313	46.83	96.12	280200.
K_7664R	.0081	.1156	.2240	5008.	6.775	504.0	1026.	-.78.98
Mg2790R	.0000	.0706	.1409	5003.	-13.47	497.7	1010.	286800.
Mn2576	.0004	18.51	36.05	213.2	.0520	5.383	10.60	.2683
Mo2020	-.0001	2.114	4.261	210.3	3.826	11.70	20.23	-1.490
Na5895R	-.0010	.4463	.8909	4991.	-8.648	963.4	1952.	263400.
Ni2316	.0010	1.318	2.643	200.7	2.014	20.06	38.44	6.409
Pb2203	.0000	.7881	1.576	200.6	.2850	9.005	13.65	-3.511
Sb2068	.0003	.3728	.7556	196.9	-4.933	15.21	34.39	4.494
Se1960	.0002	.2136	.4288	199.2	1.809	21.91	37.36	14.13
Si2881A	.0072	.6491	1.268	5253.	3.021	502.0	1007.	-15.92
Si2881R	.0004	.0761	.1503	5084.	-19.06	459.8	936.4	-50.83
Sn1899	.0003	.4265	.8507	187.9	-.4280	10.25	18.67	3.434
Sr3464	.0001	2.539	5.048	205.4	-.4884	9.693	19.68	-.2921
Ti3372	-.0019	10.04	19.75	208.4	-.0130	10.25	20.22	-.1634
Ti1908	-.0002	.3985	.8028	199.4	-.4780	16.44	39.26	.8769
V_2924	-.0004	3.280	6.425	207.8	-.1811	20.62	40.58	-1.337
Y_2243-A	14104.	14151.	13869.	14487.	14702.	14676.	14832.	13298.
Y_3203-A	41802.	42187.	42074.	41792.	42456.	42143.	41874.	38254.
Y_3600-R	22147.	21932.	21698.	21668.	21968.	22101.	21302.	20979.
Zn2062	-.0001	3.813	7.650	195.2	.2898	19.76	37.63	5.130

SUMMARY - VERTICAL REPORT

	B301149-BLK1	B301149-SRM1	B301149-SRM2	1301061-01	B301149-MS1	B301149-MSD1@5	1301061-02
	31 Jan 2013 11:00:16	31 Jan 2013 11:04:48	31 Jan 2013 11:09:23	31 Jan 2013 11:13:55	31 Jan 2013 11:18:32	31 Jan 2013 11:23:03	31 Jan 2013 11:27:29
Ag3280	-2979	424.5	416.3	.6624	191.1	37.67	-2106
Al3961R	47.02	84040.	87820.	75700.	79800.	15970.	71970.
As1890	-3.491	1628.	1610.	188.0	373.4	72.73	166.3
B_2089	1.949	742.5	742.8	45.80	224.3	49.63	37.72
Ba4554R	-.0150	2061.	2126.	738.6	925.6	185.3	693.1
Be3131R	-.0626	1075.	1096.	4.794	199.9	39.90	4.145
Ca3179R	49.05	68230.	69990.	30690.	34950.	7103.	26370.
Cd2265	-.0525	1003.	995.1	17.25	214.0	43.49	16.34
Co2286	.4711	1252.	1245.	52.17	238.8	48.36	49.16
Cr2677	.2803	1240.	1244.	155.6	354.0	73.55	149.6
Cu3247	.4869	1198.	1196.	1164.	1315.	265.8	641.3
Fe2599R	46.95	128100.	134000.	153000.	155100.	31890.	138000.
K_7664R	108.3	28930.	29880.	7633.	12210.	2504.	7451.
Mg2790R	25.57	26160.	26820.	20180.	24620.	4966.	18000.
Mn2576	.0276	3495.	3577.	1628.	1816.	371.2	1596.
Mo2020	.1862	646.3	643.5	9.390	202.1	40.79	7.945
Na5895R	289.5	3349.	3478.	1393.	6376.	1275.	1211.
Ni2316	1.438	690.7	684.4	207.3	395.7	81.19	185.6
Pb2203	-5049	736.2	722.8	31340.	30990.	6290.	29200.
Sb2068	-6.952	2149.	2126.	46.38	242.5	47.16	24.53
Se1960	1.317	1225.	1219.	8.451	204.5	41.20	6.935
Si2881A	33.96	3050.	2865.	2989.	3189.	665.0	2838.
Si2881R	.9207	2955.	2891.	2982.	3162.	619.8	2700.
Sn1899	1.337	1432.	1423.	593.3	734.1	148.9	69.65
Sr3464	-.5754	1274.	1327.	285.5	470.5	96.73	181.0
Ti3372	.2044	1671.	1672.	1713.	1901.	383.8	1788.
Ti1908	-1.734	1995.	1989.	3.100	190.0	37.19	2.098
V_2924	-.0126	911.7	906.6	289.9	490.4	97.89	282.3
Y_2243-A	14825.	15042.	15269.	15118.	15138.	14998.	15880.
Y_3203-A	42330.	43840.	44270.	44306.	44082.	42799.	45867.
Y_3600-R	21543.	22907.	22702.	22719.	22825.	22123.	23935.
Zn2062	1.225	2665.	2635.	7989.	8064.	1647.	7400.

SUMMARY - VERTICAL REPORT

	S301080- CCV1	S301080- CCB1	S301080- LCV3	S301080- LCV4	S301080-IFA2
	31 Jan 2013 11:32:05	31 Jan 2013 11:36:29	31 Jan 2013 11:41:03	31 Jan 2013 11:45:35	31 Jan 2013 11:50:08
Ag3280	200.5	-4508	4.580	10.23	.0671
Al3961R	4823.	-11.27	89.35	190.9	312900.
As1890	192.5	-3.451	8.003	13.65	-1.473
B_2089	182.4	3.397	F 13.62	23.47	F 19.44
Ba4554R	193.5	-1272	95.60	191.3	.2014
Be3131R	189.0	-.0249	2.922	5.763	.1050
Ca3179R	4963.	5.463	494.4	988.1	288100.
Cd2265	206.9	-.2260	3.230	6.039	F 7.789
Co2286	188.2	.6421	20.73	38.27	-.5766
Cr2677	212.4	-.1122	5.770	11.06	-1.431
Cu3247	198.9	.9147	10.31	21.21	.9963
Fe2599R	4891.	1.237	47.49	92.01	283100.
K_7664R	4882.	129.3	498.3	1012.	-44.40
Mg2790R	4844.	-6.534	485.5	992.0	290400.
Mn2576	213.5	-.0047	5.392	10.83	.1457
Mo2020	195.3	.5267	10.75	19.64	-1.598
Na5895R	4910.	-17.31	945.4	1932.	263000.
Ni2316	198.6	.9104	23.35	39.95	6.491
Pb2203	202.0	1.697	9.337	16.93	-6.688
Sb2068	196.0	-2.744	18.91	37.41	3.858
Se1960	201.0	2.101	25.53	40.70	13.97
Si2881A	5296.	3.818	510.1	1030.	-15.34
Si2881R	4941.	-13.87	436.6	922.1	-50.43
Sn1899	189.3	.3807	12.02	20.41	3.559
Sr3464	202.6	-.4489	9.897	20.75	.9491
Ti3372	202.7	.1212	10.10	20.36	-.2756
Ti1908	195.9	1.226	17.27	37.79	.3454
V_2924	210.0	-1.557	20.63	41.54	-1.546
Y_2243-A	15390.	15489.	14690.	15470.	14028.
Y_3203-A	43752.	43644.	43660.	43349.	38973.
Y_3600-R	21997.	21863.	21443.	20968.	20550.
Zn2062	195.7	.0581	21.43	39.46	4.788

Sample Name: Blank Acquired: 1/31/2013 10:22:52 Type: Cal

Method: PROM-2013(v11) Mode: IR Corr. Factor: 1.000000

User: RR : Instrument: ICAP6300 Method: SOP-C-109

Comment:

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0004	.0005	.0002	.0104	.0007	.0134	.0004	-.0003	.0000	.0182	.0003
Stddev	.0002	.0009	.0002	.0002	.0007	.0002	.0002	.0002	.0001	.0005	.0002
%RSD	38.03	180.6	83.92	1.966	96.82	1.594	48.52	56.34	311.9	2.546	61.56

#1	.0004	.0006	.0004	.0102	.0011	.0135	.0004	-.0005	-.0001	.0186	.0004
#2	.0002	.0013	.0002	.0105	.0011	.0135	.0005	-.0003	.0000	.0177	.0004
#3	.0005	-.0005	.0000	.0106	-.0001	.0131	.0002	-.0002	.0002	.0182	.0001

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Ti1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0081	.0000	.0004	-.0010	.0010	.0000	.0003	.0002	-.0002	-.0004	-.0001
Stddev	.0013	.0002	.0001	.0010	.0002	.0002	.0002	.0001	.0002	.0002	.0001
%RSD	16.06	2277.	20.49	104.0	18.36	484.8	73.82	53.93	89.84	48.22	92.38

#1	.0087	.0002	.0003	.0001	.0010	.0003	.0001	.0003	-.0003	-.0006	.0000
#2	.0090	.0000	.0003	-.0012	.0009	-.0001	.0003	.0002	-.0002	-.0003	-.0002
#3	.0066	-.0002	.0004	-.0018	.0012	.0000	.0005	.0001	.0000	-.0002	-.0002

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	-.0001	-.0019	.0006	.0072	.0004	.0001	.0003
Stddev	.0001	.0004	.0003	.0005	.0004	.0002	.0001
%RSD	79.07	19.90	39.74	6.392	99.03	245.4	48.13

#1	.0000	-.0019	.0004	.0076	.0009	-.0002	.0002
#2	.0000	-.0023	.0009	.0073	.0004	.0002	.0004
#3	-.0002	-.0015	.0007	.0067	.0000	.0003	.0003

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	14104.	41802.	22147.
Stddev	30.	416.	68.
%RSD	.21072	.99541	.30882

#1	14072.	41549.	22160.
#2	14130.	41574.	22073.
#3	14110.	42282.	22208.

Sample Name: MID STD Acquired: 1/31/2013 10:27:26 Type: Cal
Method: PROM-2013(v11) Mode: IR Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment:

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.3728	.2215	.2018	11.02	11.41	.6410	7.686	2.554	3.170	5.173	.3494
Stddev	.0016	.0015	.0021	.02	.05	.0007	.035	.022	.018	.025	.0015
%RSD	.4306	.6636	1.055	.2205	.4675	.1077	.4517	.8525	.5841	.4930	.4372

#1	.3716	.2218	.2016	11.00	11.37	.6405	7.686	2.549	3.156	5.161	.3476
#2	.3746	.2199	.2040	11.02	11.40	.6407	7.721	2.578	3.191	5.203	.3504
#3	.3720	.2228	.1997	11.05	11.47	.6418	7.652	2.535	3.163	5.157	.3502

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Ti1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.1156	.0706	18.51	.4463	1.318	.7881	.3728	.2136	.3985	3.280	3.813
Stddev	.0010	.0007	.04	.0005	.007	.0049	.0016	.0010	.0041	.014	.023
%RSD	.8996	1.005	.2320	.1017	.5453	.6237	.4380	.4590	1.028	.4261	.5958

#1	.1167	.0698	18.46	.4465	1.317	.7866	.3732	.2134	.3961	3.278	3.805
#2	.1156	.0709	18.53	.4466	1.326	.7935	.3742	.2147	.4032	3.295	3.839
#3	.1146	.0712	18.55	.4458	1.312	.7840	.3710	.2127	.3962	3.267	3.796

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2.114	10.04	.4080	.6491	.0761	2.539	.4265
Stddev	.012	.10	.0046	.0046	.0007	.013	.0028
%RSD	.5446	1.040	1.136	.7041	.9113	.5271	.6556

#1	2.107	9.934	.4068	.6453	.0761	2.524	.4256
#2	2.127	10.14	.4131	.6542	.0754	2.549	.4297
#3	2.108	10.05	.4041	.6478	.0768	2.545	.4243

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	14151.	42187.	21932.
Stddev	104.	364.	328.
%RSD	.73559	.86268	1.4934

#1	14245.	42508.	21767.
#2	14039.	41792.	21719.
#3	14170.	42261.	22309.

Sample Name: HIGH STD Acquired: 1/31/2013 10:31:58 Type: Cal
Method: PROM-2013(v11) Mode: IR Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment:

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.7308	.4434	.4056	21.46	22.62	1.264	15.34	5.130	6.332	10.24	.6944
Stddev	.0026	.0012	.0038	.17	.23	.006	.06	.039	.006	.12	.0023
%RSD	.3570	.2615	.9277	.7990	.9961	.4568	.3656	.7504	.1012	1.145	.3366

#1	.7338	.4435	.4086	21.28	22.80	1.263	15.39	5.162	6.325	10.34	.6951
#2	.7294	.4422	.4069	21.62	22.69	1.270	15.34	5.141	6.334	10.11	.6963
#3	.7291	.4445	.4014	21.48	22.37	1.259	15.28	5.087	6.338	10.27	.6918

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.2240	.1409	36.05	.8909	2.643	1.576	.7556	.4288	.8028	6.425	7.650
Stddev	.0017	.0007	.35	.0017	.014	.008	.0009	.0031	.0034	.078	.057
%RSD	.7616	.5178	.9848	.1943	.5181	.5196	.1178	.7168	.4184	1.217	.7410

#1	.2245	.1407	36.46	.8923	2.653	1.582	.7563	.4316	.8054	6.505	7.700
#2	.2255	.1417	35.89	.8890	2.648	1.579	.7557	.4292	.8039	6.349	7.661
#3	.2222	.1403	35.80	.8915	2.628	1.567	.7546	.4255	.7990	6.422	7.588

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4.261	19.75	.8178	1.268	.1503	5.048	.8507
Stddev	.009	.24	.0096	.001	.0002	.011	.0043
%RSD	.2006	1.203	1.175	.1141	.1385	.2129	.5073

#1	4.270	20.02	.8262	1.270	.1505	5.047	.8549
#2	4.260	19.58	.8199	1.267	.1501	5.038	.8510
#3	4.253	19.65	.8073	1.267	.1504	5.059	.8463

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	13869.	42074.	21698.
Stddev	9.	124.	217.
%RSD	.06196	.29552	.99814

#1	13873.	41950.	21839.
#2	13859.	42198.	21448.
#3	13874.	42074.	21806.

Element, Wavelength and Order	Date of Fit	Date of Cal.	Type of Fit	Weighting	A0	A1	A2	n (Exponent)	Correlation	Std Error of Est	MDL	MQL
Ag 328.068 (103)	1/31/2013 10:37:01	1/31/2013 10:37:01	Linear	1/Conc	0.000397	0.000732	0.000000	1.000000	0.999957	0.358363	1.075088	3.583626
Al 396.152 (85)2	1/31/2013 10:37:01	1/31/2013 10:37:01	Linear	1/Conc	0.000506	0.000042	0.000000	1.000000	0.999999	0.128820	0.386459	1.288197
As 189.042 (478)	1/31/2013 10:37:01	1/31/2013 10:37:01	Linear	1/Conc	0.000194	0.000040	0.000000	1.000000	0.999996	0.326751	0.980254	3.267514
Ba 455.403 (74)	1/31/2013 10:37:01	1/31/2013 10:37:01	Linear	1/Conc	0.010535	0.002164	0.000000	1.000000	0.999922	1.533379	4.600137	15.333791
Be 313.107 (108)	1/31/2013 10:37:01	1/31/2013 10:37:01	Linear	1/Conc	0.000733	0.002268	0.000000	1.000000	0.999991	0.528374	1.585121	5.283735
Ca 317.933 (106)	1/31/2013 10:37:01	1/31/2013 10:37:01	Linear	1/Conc	0.013359	0.000125	0.000000	1.000000	0.999998	0.215852	0.647557	2.158522
Cd 226.502 (449)	1/31/2013 10:37:01	1/31/2013 10:37:01	Linear	1/Conc	0.000371	0.001535	0.000000	1.000000	0.999999	0.134883	0.404649	1.348829
Co 228.616 (447)	1/31/2013 10:37:01	1/31/2013 10:37:01	Linear	1/Conc	-0.000339	0.000511	0.000000	1.000000	0.999998	0.241860	0.725580	2.418600
Cr 267.716 (126)	1/31/2013 10:37:01	1/31/2013 10:37:01	Linear	1/Conc	0.000044	0.000633	0.000000	1.000000	0.999999	0.070805	0.212414	0.708047
Cu 324.754 (104)	1/31/2013 10:37:01	1/31/2013 10:37:01	Linear	1/Conc	0.018174	0.001025	0.000000	1.000000	0.999991	0.504569	1.513708	5.045694
Fe 259.940 (130)2	1/31/2013 10:37:01	1/31/2013 10:37:01	Linear	1/Conc	0.000310	0.000070	0.000000	1.000000	0.999996	0.339091	1.017274	3.390915
K 766.490 (44)	1/31/2013 10:37:01	1/31/2013 10:37:01	Linear	1/Conc	0.008110	0.000022	0.000000	1.000000	0.999998	0.249707	0.749122	2.497073
Mg 279.079 (121)	1/31/2013 10:37:01	1/31/2013 10:37:01	Linear	1/Conc	0.000009	0.000014	0.000000	1.000000	0.999999	0.132968	0.398903	1.329678
Mn 257.610 (131)	1/31/2013 10:37:01	1/31/2013 10:37:01	Linear	1/Conc	0.000524	0.003638	0.000000	1.000000	0.999920	1.547470	4.642409	15.474696
Na 589.592 (57)	1/31/2013 10:37:01	1/31/2013 10:37:01	Linear	1/Conc	-0.000956	0.000089	0.000000	1.000000	0.999999	0.169309	0.507927	1.693089
Ni 231.604 (445)	1/31/2013 10:37:01	1/31/2013 10:37:01	Linear	1/Conc	0.001037	0.000264	0.000000	1.000000	0.999999	0.160592	0.481776	1.605921
Pb 220.353 (453)	1/31/2013 10:37:01	1/31/2013 10:37:01	Linear	1/Conc	0.000046	0.000158	0.000000	1.000000	1.000000	0.009999	0.029997	0.099991
Sb 206.833 (463)	1/31/2013 10:37:01	1/31/2013 10:37:01	Linear	1/Conc	0.000304	0.000075	0.000000	1.000000	0.999979	0.794400	2.383200	7.943998
Se 196.090 (472)	1/31/2013 10:37:01	1/31/2013 10:37:01	Linear	1/Conc	0.000186	0.000043	0.000000	1.000000	0.999998	0.231234	0.693701	2.312336
Ti 190.856 (477)	1/31/2013 10:37:01	1/31/2013 10:37:01	Linear	1/Conc	-0.000177	0.000080	0.000000	1.000000	0.999995	0.399439	1.198318	3.994392
V 292.402 (115)	1/31/2013 10:37:01	1/31/2013 10:37:01	Linear	1/Conc	-0.000374	0.000647	0.000000	1.000000	0.999952	1.205214	3.615642	12.052139
Zn 206.200 (463)	1/31/2013 10:37:02	1/31/2013 10:37:02	Linear	1/Conc	-0.000126	0.000765	0.000000	1.000000	0.989999	0.171965	0.515895	1.719650
Mo 202.030 (467)	1/31/2013 10:37:02	1/31/2013 10:37:02	Linear	1/Conc	-0.000095	0.000425	0.000000	1.000000	0.999993	0.441574	1.324721	4.415736
Ti 337.280 (100)	1/31/2013 10:37:02	1/31/2013 10:37:02	Linear	1/Conc	-0.001849	0.001987	0.000000	1.000000	0.999968	0.985244	2.955732	9.852440
B 208.959 (461)	1/31/2013 10:37:02	1/31/2013 10:37:02	Linear	1/Conc	0.000647	0.000080	0.000000	1.000000	0.999999	0.175359	0.526078	1.753595
Si 288.158 (117)	1/31/2013 10:37:02	1/31/2013 10:37:02	Linear	1/Conc	0.007213	0.000124	0.000000	1.000000	0.999963	1.068978	3.206933	10.689776
Si 288.158 (117)2	1/31/2013 10:37:02	1/31/2013 10:37:02	Linear	1/Conc	0.000421	0.000015	0.000000	1.000000	0.999990	0.556643	1.669930	5.566433
Sr 346.446 (97)	1/31/2013 10:37:02	1/31/2013 10:37:02	Linear	1/Conc	0.000103	0.000506	0.000000	1.000000	0.999996	0.345547	1.036640	3.455466
Sn 189.989 (477)	1/31/2013 10:37:02	1/31/2013 10:37:02	Linear	1/Conc	0.000285	0.000085	0.000000	1.000000	0.999999	0.142340	0.427018	1.423397
Y 224.306 (450)*	<not fit>	<Never Calibrated>	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000	0.000000	111.803399	0.000000	0.000000
Y 320.332 (105)*	<not fit>	<Never Calibrated>	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000	0.000000	0.000000	0.000000	0.000000
Y 360.073 (94)*	<not fit>	<Never Calibrated>	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000	0.000000	111.803399	0.000000	0.000000

Sample Name: S301080-ICV1 Acquired: 1/31/2013 10:37:07 Type: QC

Method: PROM-2013(v11) Mode: CONC Corr. Factor: 1.000000

User: RR Instrument: ICAP6300 Method: SOP-C-109

Comment:

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	198.8	4833.	196.5	197.3	198.1	5054.	205.3	194.1	212.6	199.7	5033.
Stddev	1.8	26.	2.8	1.2	1.6	26.	.5	1.4	1.3	.6	42.
%RSD	.8803	.5357	1.427	.6059	.8287	.5097	.2553	.7229	.5942	.3076	.8331

#1	196.9	4804.	199.8	196.1	196.8	5028.	205.9	195.7	211.5	199.1	4994.
#2	200.2	4853.	195.3	198.5	200.0	5080.	205.1	193.7	212.4	200.3	5077.
#3	199.5	4842.	194.6	197.3	197.6	5055.	204.9	193.0	214.0	199.8	5027.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value											
Range											

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Ti1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5008.	5003.	213.2	4991.	200.7	200.6	196.9	199.2	199.4	207.8	195.2
Stddev	105.	32.	.5	17.	.6	.7	4.9	2.5	1.4	.6	1.3
%RSD	2.087	.6332	.2188	.3488	.2889	.3508	2.466	1.254	.7100	.2942	.6455

#1	4888.	4998.	212.7	4973.	201.3	199.8	194.3	200.0	197.8	208.1	196.4
#2	5055.	5037.	213.3	4991.	200.6	200.6	202.5	201.2	200.6	208.2	195.3
#3	5081.	4974.	213.7	5008.	200.2	201.2	193.9	196.4	199.9	207.1	193.9

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value											
Range											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	210.3	208.4	209.2	5253.	5084.	205.4	187.9
Stddev	3.2	.3	3.3	25.	34.	1.0	1.3
%RSD	1.501	.1675	1.561	.4697	.6737	.4747	.6653

#1	213.7	208.1	211.0	5225.	5045.	204.2	188.2
#2	209.5	208.8	211.3	5265.	5094.	205.9	189.0
#3	207.6	208.5	205.5	5270.	5112.	205.9	186.6

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	14487.	41792.	21668.
Stddev	51.	24.	266.
%RSD	.35453	.05702	1.2263

#1	14461.	41806.	21975.
#2	14455.	41765.	21515.
#3	14547.	41806.	21514.

Sample Name: S301080-ICB1 Acquired: 1/31/2013 10:41:34 Type: QC

Method: PROM-2013(v11) Mode: CONC Corr. Factor: 1.000000

User: RR Instrument: ICAP6300 Method: SOP-C-109

Comment:

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-4479	9.594	-2.284	-.0911	.1777	3.937	.0951	.4544	.2415	.4650	-.6313
Stddev	.3158	15.75	.433	.4402	.0904	5.763	.1599	.2790	.3279	.6547	1.739
%RSD	70.50	164.1	18.98	482.9	50.90	146.4	168.1	61.40	135.7	140.8	275.4

#1	-.8125	2.933	-2.462	-.5949	.1960	7.891	.0445	.2367	-.0792	.5778	1.107
#2	-.2640	-1.727	-1.789	.2195	.2576	-2.675	-.0333	.3576	.5761	1.056	-.6299
#3	-.2673	27.58	-2.599	.1019	.0795	6.594	.2743	.7689	.2277	-.2388	-2.371

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	6.775	-13.47	.0520	-8.648	2.014	.2850	-4.933	1.809	-.4780	-.1811	.2898
Stddev	38.86	15.68	.0661	16.72	.787	1.740	4.090	1.705	2.940	.2196	.0713
%RSD	573.5	116.5	127.1	193.4	39.10	610.5	82.91	94.24	615.1	.121.2	24.59

#1	-22.48	1.488	.1006	-19.97	2.906	.0914	-1.644	2.202	-1.765	.0041	.2798
#2	50.86	-29.79	.0787	-16.53	1.720	2.113	-9.512	3.284	-2.556	-.4237	.2241
#3	-8.061	-12.10	-.0233	10.56	1.416	-1.350	-3.642	-.0579	2.886	-.1238	.3655

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.826	-.0130	8.828	3.021	-19.06	-.4684	-.4280
Stddev	.276	.0922	2.547	2.218	15.20	.5123	.3065
%RSD	7.209	708.2	28.85	73.42	79.77	109.4	71.62

#1	4.103	.0488	5.909	5.358	-1.532	-.7880	-.1045
#2	3.551	.0311	10.60	.9445	-26.97	-.7395	-.4653
#3	3.823	-.1190	9.975	2.762	-28.68	.1225	-.7141

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	14702.	42456.	21968.
Stddev	12.	213.	172.
%RSD	.08339	.50171	.78223

#1	14697.	42216.	22094.
#2	14693.	42532.	21772.
#3	14716.	42621.	22038.

Sample Name: S301080-LCV1 Acquired: 1/31/2013 10:46:10 Type: QC

Method: PROM-2013(v11) Mode: CONC Corr. Factor: 1.000000

User: RR Instrument: ICAP6300 Method: SOP-C-109

Comment:

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5.233	95.49	5.643	96.65	3.193	488.6	3.003	19.69	5.841	10.03	46.83
Stddev	.551	12.52	2.737	.29	.154	4.8	.084	.19	.306	.18	2.83
%RSD	10.53	13.11	48.50	.2983	4.837	.9854	2.790	.9813	5.240	1.809	6.046

#1	4.852	81.41	8.802	96.40	3.158	493.5	3.026	19.88	6.181	10.23	46.92
#2	5.865	105.4	3.980	96.59	3.060	488.3	3.073	19.50	5.589	9.997	43.96
#3	4.983	99.69	4.147	96.97	3.362	483.9	2.910	19.68	5.752	9.870	49.62

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value											
Range											

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	504.0	497.7	5.383	963.4	20.06	9.005	15.21	21.91	16.44	20.62	19.76
Stddev	59.1	20.0	.115	10.8	.31	.675	1.99	2.97	2.78	.62	.64
%RSD	11.72	4.025	2.143	1.124	1.547	7.494	13.08	13.55	16.89	2.999	3.258

#1	572.1	474.6	5.484	954.7	20.39	8.785	13.13	24.42	18.54	20.35	20.34
#2	473.7	510.8	5.407	959.9	19.78	9.762	15.40	22.67	13.29	21.33	19.89
#3	466.3	507.7	5.257	975.5	20.01	8.467	17.10	18.63	17.47	20.19	19.07

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value											
Range											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	11.70	10.25	12.87	502.0	459.8	9.693	10.25
Stddev	.18	.35	2.01	2.7	14.8	.604	1.37
%RSD	1.569	3.421	15.60	.5412	3.219	6.231	13.35

#1	11.87	10.59	12.86	502.0	466.3	9.130	9.122
#2	11.50	9.886	14.88	504.7	442.9	10.33	11.77
#3	11.73	10.28	10.86	499.2	470.3	9.619	9.846

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	14676.	42143.	22101.
Stddev	145.	355.	170.
%RSD	.98835	.84168	.76783

#1	14632.	41856.	22000.
#2	14558.	42033.	22007.
#3	14838.	42539.	22297.

Sample Name: S301080-LCV2 Acquired: 1/31/2013 10:50:43 Type: QC

Method: PROM-2013(v11) Mode: CONC Corr. Factor: 1.000000

User: RR Instrument: ICAP6300 Method: SOP-C-109

Comment:

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	9.806	177.2	13.35	196.1	6.001	994.9	5.811	37.87	11.80	20.24	96.12
Stddev	1.207	13.7	3.40	6.5	.176	27.2	.088	.08	.98	.78	1.61
%RSD	12.31	7.724	25.49	3.323	2.928	2.732	1.513	.2149	8.289	3.844	1.675

#1	11.17	191.9	13.97	188.9	5.812	966.3	5.889	37.95	11.23	20.81	97.88
#2	9.392	174.9	16.40	201.6	6.031	1020.	5.828	37.79	12.93	20.54	95.75
#3	8.860	164.8	9.682	197.8	6.159	997.9	5.715	37.88	11.25	19.35	94.72

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value											
Range											

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Ti1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1026.	1010.	10.60	1952.	38.44	13.65	34.39	37.36	39.26	40.58	37.63
Stddev	86.	41.	.21	40.	1.03	1.40	4.85	4.11	2.38	.79	.50
%RSD	8.410	4.031	2.014	2.066	2.671	10.26	14.11	11.01	6.066	1.953	1.316

#1	1010.	963.0	10.40	1914.	37.93	12.27	32.65	36.19	37.10	39.88	37.08
#2	1119.	1031.	10.83	1994.	39.62	13.61	30.65	33.97	41.81	41.44	38.05
#3	948.7	1036.	10.58	1947.	37.76	15.07	39.87	41.94	38.86	40.42	37.75

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value											
Range											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	20.23	20.22	23.28	1007.	936.4	19.68	18.67
Stddev	.21	.34	1.75	22.	37.8	.24	.21
%RSD	1.029	1.687	7.508	2.136	4.039	1.238	1.102

#1	20.12	19.98	23.06	991.0	894.9	19.95	18.60
#2	20.10	20.61	25.13	1032.	945.5	19.47	18.90
#3	20.47	20.06	21.66	999.0	968.9	19.63	18.51

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	14832.	41874.	21302.
Stddev	102.	495.	458.
%RSD	.68681	1.1813	2.1511

#1	14948.	42047.	21657.
#2	14787.	41316.	20785.
#3	14760.	42259.	21465.

Sample Name: S301080-IFA1 Acquired: 1/31/2013 10:55:16 Type: QC

Method: PROM-2013(v11) Mode: CONC Corr. Factor: 1.000000

User: RR Instrument: ICAP6300 Method: SOP-C-109

Comment:

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.7443	307500.	.2407	.3840	.2115	284600.	F 7.680	-.4502	-1.638	1.689	280200.
Stddev	.2059	2123.	1.637	.1760	.1950	1427.	.273	.1686	.494	.767	4045.
%RSD	27.67	.6906	680.3	45.83	92.18	.5015	3.557	37.46	30.16	45.41	1.443

#1	-6971	305300.	2.067	.5853	.1063	283100.	7.861	-.3766	-1.524	1.190	277800.
#2	-.9697	307700.	-.2484	.2590	.0918	284700.	7.814	-.3308	-1.210	1.304	277900.
#3	-.5660	309500.	-1.096	.3077	.4366	285900.	7.366	-.6430	-2.178	2.571	284900.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							3.000				
Low Limit							-3.000				

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Ti1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-78.98	286800.	.2683	263400.	6.409	-3.511	4.494	14.13	.8769	-1.337	5.130
Stddev	100.9	1346.	.0237	1546.	1.323	4.022	5.874	3.70	3.439	.195	.704
%RSD	127.8	.4693	8.849	.5868	20.64	114.5	130.7	26.18	392.1	14.56	13.72

#1	-76.83	285300.	.2866	264800.	5.607	1.095	10.79	15.97	1.000	-1.204	4.577
#2	-181.0	287600.	.2769	261700.	7.935	-5.300	-.8371	9.873	4.252	-1.561	5.922
#3	20.87	287600.	.2415	263700.	5.683	-6.329	3.527	16.55	-2.622	-1.247	4.891

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.490	-.1634	F 19.51	-15.92	-50.83	-.2921	3.434
Stddev	.411	.1079	4.11	4.67	57.69	.4687	1.719
%RSD	27.59	66.03	21.05	29.32	113.5	160.5	50.05

#1	-1.056	-.2418	22.47	-10.88	-92.92	-.4913	1.663
#2	-1.540	-.0403	14.82	-16.78	14.94	.2433	3.544
#3	-1.874	-.2080	21.24	-20.09	-74.50	-.6283	5.096

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			10.00				
Low Limit			-10.00				

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	13298.	38254.	20979.
Stddev	75.	136.	310.
%RSD	.56534	.35509	1.4783

#1	13376.	38145.	21321.
#2	13226.	38211.	20902.
#3	13291.	38406.	20715.

Sample Name: B301149-BLK1 Acquired: 1/31/2013 11:00:16 Type: QC

Method: PROM-2013(v11) Mode: CONC Corr. Factor: 1.000000

User: RR Instrument: ICAP6300 Method: SOP-C-109

Comment:

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.2979	47.02	-3.491	-.0150	-.0626	49.05	-.0525	.4711	.2803	.4669	46.95
Stddev	.9988	32.11	2.575	.2429	.2232	22.17	.2072	.4883	.1643	.3959	22.58
%RSD	335.2	68.30	73.76	1623.	356.5	45.20	394.8	103.7	58.60	84.80	48.08

#1	.0049	13.80	-6.343	.1799	.0345	23.46	.1716	.2340	.2716	.4237	21.03
#2	.5143	77.90	-2.792	.0624	.0956	61.13	-.2369	.1466	.4487	.8826	57.53
#3	-1.413	49.35	-1.337	-.2871	-.3179	62.55	-.0921	1.033	.1206	.0943	62.29

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Ti1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	108.3	25.57	.0276	289.5	1.438	-.5049	-6.952	1.317	-1.734	-.0126	1.225
Stddev	54.2	31.40	.1703	36.8	.607	1.867	3.015	3.180	3.169	.4246	.152
%RSD	50.04	122.8	617.7	12.69	42.17	369.8	43.37	241.4	182.7	3373.	12.44

#1	124.1	9.297	-.0153	314.4	.7513	1.176	-7.061	-1.222	-2.096	-.1827	1.353
#2	47.93	5.651	.2152	306.8	1.900	-.1773	-9.911	4.884	-4.707	.4707	1.264
#3	152.8	61.77	-.1172	247.3	1.664	-2.514	-3.883	.2898	1.599	-.3258	1.056

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.1862	.2044	1.949	33.96	.9207	-.5754	1.337
Stddev	.0141	.4061	2.336	4.94	8.298	.3941	.159
%RSD	7.588	198.7	119.8	14.55	901.2	68.50	11.90

#1	.1851	-.0773	4.506	31.83	9.595	-1.021	1.398
#2	.2008	.6699	1.415	39.61	-6.941	-.2725	1.456
#3	.1727	.0205	-.0733	30.44	.1083	-.4327	1.156

Check ?	Chk Pass	Chk Pass	Chk Pass	None	None	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	14825.	42330.	21543.
Stddev	111.	305.	341.
%RSD	.75131	.72159	1.5814

#1	14850.	41978.	21922.
#2	14703.	42528.	21446.
#3	14922.	42484.	21262.

Sample Name: B301149-SRM1 Acquired: 1/31/2013 11:04:48 Type: QC

Method: PROM-2013(v11) Mode: CONC Corr. Factor: 1.000000

User: RR Instrument: ICAP6300 Method: SOP-C-109

Comment:

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	424.5	84040.	1628.	2061.	1075.	68230.	1003.	1252.	1240.	1198.	128100.
Stddev	1.7	407.	5.	4.	7.	645.	2.	2.	3.	2.	2037.
%RSD	.4090	.4843	.3369	.1787	.6819	.9448	.1577	.1982	.2189	.1915	1.590

#1	425.5	83570.	1634.	2058.	1067.	67490.	1005.	1250.	1240.	1195.	125800.
#2	425.4	84340.	1626.	2065.	1081.	68650.	1003.	1250.	1242.	1199.	128800.
#3	422.5	84210.	1623.	2060.	1077.	68560.	1002.	1254.	1237.	1199.	129600.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Ti1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	28930.	26160.	3495.	3349.	690.7	736.2	2149.	1225.	1995.	911.7	2665.
Stddev	261.	328.	28.	11.	.4	3.3	4.	3.	5.	3.4	5.
%RSD	.9005	1.252	.8111	.3396	.0604	.4464	.1816	.2454	.2462	.3714	.1977

#1	28630.	25790.	3524.	3336.	690.5	737.5	2148.	1229.	1996.	915.1	2665.
#2	29110.	26430.	3493.	3351.	691.2	738.7	2153.	1223.	1998.	911.7	2659.
#3	29050.	26250.	3468.	3359.	690.4	732.5	2145.	1224.	1989.	908.3	2670.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	646.3	1671.	742.5	3050.	2955.	1274.	1432.
Stddev	1.6	1.	3.8	11.	24.	2.	2.
%RSD	.2525	.0369	.5091	.3713	.8167	.1633	.1663

#1	647.1	1671.	738.5	3046.	2944.	1275.	1435.
#2	647.3	1672.	742.8	3041.	2938.	1275.	1430.
#3	644.4	1671.	746.0	3062.	2982.	1271.	1431.

Check ?	Chk Pass	Chk Pass	Chk Pass	None	None	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	15042.	43840.	22907.
Stddev	14.	89.	432.
%RSD	.09424	.20219	1.8857

#1	15050.	43842.	23373.
#2	15050.	43928.	22520.
#3	15025.	43751.	22828.

Sample Name: B301149-SRM2 Acquired: 1/31/2013 11:09:23 Type: QC

Method: PROM-2013(v11) Mode: CONC Corr. Factor: 1.000000

User: RR : Instrument: ICAP6300 Method: SOP-C-109

Comment:

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	416.3	87820.	1610.	2126.	1096.	69990.	995.1	1245.	1244.	1196.	134000.
Stddev	6.4	1152.	49.	18.	7.	607.	33.4	35.	16.	16.	2076.
%RSD	1.526	1.312	3.067	.8263	.6071	.8668	3.354	2.848	1.265	1.364	1.549

#1	414.7	88070.	1619.	2138.	1100.	70110.	1006.	1258.	1241.	1193.	136400.
#2	410.9	86560.	1557.	2106.	1088.	69330.	957.5	1205.	1229.	1182.	133100.
#3	423.3	88820.	1655.	2134.	1099.	70520.	1021.	1273.	1260.	1214.	132600.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Ti1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	29880.	26820.	3577.	3478.	684.4	722.8	2126.	1219.	1989.	906.6	2635.
Stddev	117.	259.	67.	36.	21.2	24.1	74.	47.	77.	16.4	79.
%RSD	.3898	.9654	1.868	1.031	3.104	3.330	3.482	3.843	3.889	1.810	3.003

#1	29890.	27010.	3516.	3457.	692.0	732.1	2147.	1236.	2010.	903.3	2658.
#2	29760.	26530.	3649.	3456.	660.4	695.4	2044.	1166.	1903.	892.0	2547.
#3	29990.	26930.	3567.	3519.	700.8	740.8	2187.	1255.	2053.	924.3	2700.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	643.5	1672.	742.8	2865.	2891.	1327.	1423.
Stddev	22.4	27.	20.2	40.	75.	22.	50.
%RSD	3.487	1.605	2.722	1.394	2.593	1.657	3.516

#1	649.5	1664.	748.4	2877.	2950.	1325.	1438.
#2	618.7	1649.	720.3	2821.	2807.	1306.	1368.
#3	662.4	1701.	759.6	2898.	2917.	1350.	1464.

Check ?	Chk Pass	Chk Pass	Chk Pass	None	None	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	15269.	44270.	22702.
Stddev	388.	331.	194.
%RSD	2.5417	.74694	.85436

#1	15234.	44492.	22646.
#2	15674.	44429.	22918.
#3	14900.	43890.	22542.

Sample Name: 1301061-01 Acquired: 1/31/2013 11:13:55 Type: Unk
Method: PROM-2013(v11) Mode: CONC Corr. Factor: 1.000000
User: RR Instrument: ICAP6300 Method: SOP-C-109
Comment: JEWETT WHITE (1212042)

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.6624	75700.	188.0	738.6	4.794	30690.	17.25	52.17	155.6	1164.	153000.
Stddev	.5164	260.	1.2	2.6	.231	47.	.17	1.12	1.1	8.	1505.
%RSD	77.96	.3436	.6563	.3457	4.812	.1536	.9575	2.152	.6755	.7244	.9836

#1	.8673	75730.	187.4	740.5	5.014	30690.	17.44	53.37	156.7	1172.	152900.
#2	1.045	75420.	187.3	739.4	4.553	30640.	17.14	51.15	154.7	1155.	154500.
#3	.0750	75940.	189.5	735.7	4.814	30740.	17.16	51.98	155.2	1166.	151500.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Ti1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	7633.	20180.	1628.	1393.	207.3	31340.	46.38	8.451	3.100	289.9	7989.
Stddev	55.	68.	6.	26.	.8	120.	4.13	1.586	2.835	2.6	28.
%RSD	.7185	.3363	.3626	1.851	.3901	.3839	8.900	18.77	91.47	.9138	.3456

#1	7664.	20210.	1635.	1413.	207.8	31470.	42.78	10.27	1.273	292.8	8020.
#2	7665.	20220.	1624.	1364.	206.3	31270.	45.47	7.746	6.366	287.5	7966.
#3	7570.	20100.	1625.	1401.	207.7	31270.	50.88	7.339	1.661	289.5	7981.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	9.390	1713.	45.80	2989.	2982.	285.5	593.3
Stddev	.124	8.	2.67	28.	10.	2.1	.5
%RSD	1.317	.4592	5.828	.9518	.3383	.7442	.0889

#1	9.419	1719.	42.80	3014.	2989.	287.9	593.9
#2	9.254	1704.	47.93	2958.	2971.	284.4	593.1
#3	9.496	1715.	46.67	2994.	2987.	284.1	593.0

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	15118.	44306.	22719.
Stddev	18.	257.	186.
%RSD	.11585	.57966	.81945

#1	15108.	44014.	22695.
#2	15139.	44498.	22917.
#3	15108.	44404.	22547.

Sample Name: B301149-MS1 Acquired: 1/31/2013 11:18:32 Type: Unk

Method: PROM-2013(v11) Mode: CONC Corr. Factor: 1.000000

User: RR Instrument: ICAP6300 Method: SOP-C-109

Comment: JEWETT WHITE (1212042)

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	191.1	79800.	373.4	925.6	199.9	34950.	214.0	238.8	354.0	1315.	155100.
Stddev	1.5	671.	5.6	4.0	.9	244.	.7	1.7	1.3	3.	2989.
%RSD	.8089	.8402	1.496	.4299	.4740	.6983	.3097	.7040	.3663	.2542	1.927

#1	189.7	79090.	367.4	923.4	199.0	34690.	213.3	237.0	352.7	1313.	157300.
#2	190.8	79880.	374.2	923.2	199.9	34980.	214.5	239.0	353.9	1314.	151700.
#3	192.7	80430.	378.5	930.2	200.9	35180.	214.3	240.4	355.3	1319.	156400.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Ti1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	12210.	24620.	1816.	6376.	395.7	30990.	242.5	204.5	190.0	490.4	8064.
Stddev	4.	120.	4.	34.	2.2	166.	2.6	2.2	2.9	.9	57.
%RSD	.0352	.4872	.2371	.5296	.5646	.5340	1.068	1.099	1.531	.1767	.7110

#1	12210.	24490.	1811.	6370.	393.7	30800.	242.4	203.1	190.0	489.7	8000.
#2	12200.	24660.	1816.	6346.	395.3	31070.	245.1	203.4	187.0	491.4	8082.
#3	12210.	24720.	1820.	6412.	398.1	31100.	239.9	207.1	192.9	490.3	8110.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	202.1	1901.	224.3	3189.	3162.	470.5	734.1
Stddev	1.6	16.	2.2	34.	80.	1.0	4.6
%RSD	.7799	.8234	.9659	1.062	2.525	.2139	.6260

#1	200.3	1889.	225.6	3207.	3117.	470.0	728.8
#2	202.8	1895.	225.4	3150.	3114.	471.6	736.5
#3	203.2	1918.	221.8	3211.	3254.	469.8	737.0

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	15138.	44082.	22825.
Stddev	94.	164.	69.
%RSD	.61824	.37238	.30091

#1	15243.	44120.	22789.
#2	15107.	44223.	22904.
#3	15063.	43902.	22782.

Sample Name: B301149MSD1@5 Acquired: 1/31/2013 11:23:03 Type: Unk

Method: PROM-2013(v11) Mode: CONC Corr. Factor: 1.000000

User: RR Instrument: ICAP6300 Method: SOP-C-109

Comment: JEWETT WHITE (1212042)

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	37.67	15970.	72.73	185.3	39.90	7103.	43.49	48.36	73.55	265.8	31890.
Stddev	.59	39.	.94	1.2	.26	8.	.20	.10	.64	1.3	135.
%RSD	1.560	.2464	1.287	.6271	.6638	.1147	.4522	.2073	.8638	.4983	.4230

#1	37.90	16000.	71.95	184.0	39.97	7098.	43.50	48.25	73.50	266.4	31740.
#2	37.00	15930.	73.77	185.8	40.12	7113.	43.68	48.45	74.20	266.7	31930.
#3	38.11	15990.	72.48	186.2	39.60	7099.	43.28	48.39	72.94	264.3	32000.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Ti1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2504.	4966.	371.2	1275.	81.19	6290.	47.16	41.20	37.19	97.89	1647.
Stddev	58.	42.	.9	15.	.77	17.	3.17	5.36	.48	.86	6.
%RSD	2.322	.8552	.2324	1.158	.9469	.2657	6.720	13.02	1.297	.8831	.3570

#1	2508.	4969.	372.2	1286.	80.34	6308.	48.45	42.63	37.61	98.43	1651.
#2	2443.	5007.	370.6	1258.	81.39	6289.	43.55	35.27	37.29	96.89	1649.
#3	2559.	4922.	370.8	1281.	81.83	6275.	49.48	45.70	36.66	98.34	1640.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	40.79	383.8	49.63	665.0	619.8	96.73	148.9
Stddev	.24	2.2	4.52	12.8	7.7	1.53	.5
%RSD	.5883	.5662	9.115	1.929	1.237	1.585	.3500

#1	40.82	386.3	53.41	675.5	624.2	98.43	149.4
#2	41.01	382.5	44.62	650.7	611.0	95.45	148.5
#3	40.53	382.5	50.87	668.9	624.4	96.31	148.7

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	14998.	42799.	22123.
Stddev	55.	170.	348.
%RSD	.36716	.39782	1.5738

#1	14946.	42662.	21830.
#2	14992.	42745.	22508.
#3	15056.	42989.	22032.

Sample Name: 1301061-02 Acquired: 1/31/2013 11:27:29 Type: Unk.

Method: PROM-2013(v11) Mode: CONC Corr. Factor: 1.000000

User: RR Instrument: ICAP6300 Method: SOP-C-109

Comment: JEWETT WHITE (1212042)

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2106	71970.	166.3	693.1	4.145	26370.	16.34	49.16	149.6	641.3	138000.
Stddev	.1408	434.	1.9	5.2	.123	114.	.18	.14	1.3	3.4	1843.
%RSD	66.87	.6025	1.134	.7518	2.975	.4304	1.125	.2887	.8865	.5343	1.335

#1	-.1582	71950.	164.9	696.8	4.016	26430.	16.35	49.22	150.3	644.5	136400.
#2	-.1035	71550.	168.5	687.1	4.262	26240.	16.52	49.27	148.1	637.7	137700.
#3	-.3702	72420.	165.7	695.3	4.157	26440.	16.15	49.00	150.5	641.6	140000.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Ti1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	7451.	18000.	1596.	1211.	185.6	29200.	24.53	6.935	2.098	282.3	7400.
Stddev	76.	115.	11.	15.	.7	41.	3.81	.794	1.060	1.4	6.
%RSD	1.020	.6366	.6894	1.253	.3720	.1411	15.55	11.45	50.50	.4958	.0802

#1	7532.	18070.	1604.	1221.	185.5	29160.	27.26	7.072	2.466	281.8	7398.
#2	7442.	17870.	1583.	1194.	186.4	29210.	20.18	6.081	.9036	281.3	7406.
#3	7380.	18070.	1600.	1220.	185.0	29240.	26.16	7.651	2.925	283.9	7395.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	7.945	1788.	37.72	2838.	2700.	181.0	69.65
Stddev	.315	12.	.40	32.	13.	.5	.87
%RSD	3.966	.6572	1.058	1.144	.4968	.2533	1.252

#1	8.309	1798.	37.92	2875.	2715.	181.2	70.47
#2	7.754	1775.	37.97	2816.	2689.	180.5	68.73
#3	7.773	1790.	37.26	2822.	2696.	181.4	69.75

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	15880.	45867.	23935.
Stddev	14.	283.	193.
%RSD	.08949	.61774	.80690

#1	15880.	45942.	24062.
#2	15894.	46105.	24030.
#3	15865.	45554.	23713.

Sample Name: S301080-CCV1 Acquired: 1/31/2013 11:32:05 Type: QC

Method: PROM-2013(v11) Mode: CONC Corr. Factor: 1.000000

User: RR : Instrument: ICAP6300 Method: SOP-C-109

Comment:

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	200.5	4823.	192.5	193.5	189.0	4963.	206.9	188.2	212.4	198.9	4891.
Stddev	.4	87.	3.9	3.2	3.4	101.	.3	.9	.3	.7	96.
%RSD	.2050	1.810	2.014	1.664	1.773	2.036	.1613	.4554	.1626	.3475	1.963

#1	200.2	4724.	196.5	189.7	185.2	4846.	207.3	189.1	212.0	198.1	4780.
#2	200.3	4862.	192.4	195.3	191.1	5023.	206.7	187.8	212.7	199.2	4950.
#3	200.9	4885.	188.7	195.3	190.8	5019.	206.8	187.5	212.4	199.4	4944.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value											
Range											

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Ti1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4882.	4844.	213.5	4910.	198.6	202.0	196.0	201.0	195.9	210.0	195.7
Stddev	68.	89.	.9	89.	.3	.3	1.4	2.1	2.8	1.3	.5
%RSD	1.399	1.837	.4243	1.810	.1630	.1285	.7069	1.027	1.432	.6278	.2614

#1	4810.	4749.	212.7	4810.	198.9	202.3	194.5	200.0	195.1	209.2	196.2
#2	4946.	4926.	214.5	4940.	198.6	201.7	196.2	203.4	193.5	211.5	195.2
#3	4889.	4856.	213.3	4980.	198.3	202.0	197.2	199.7	199.0	209.3	195.7

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value											
Range											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	195.3	202.7	182.4	5296.	4941.	202.6	189.3
Stddev	.3	.3	4.7	25.	59.	1.1	.8
%RSD	.1574	.1508	2.568	.4645	1.192	.5343	.4286

#1	195.7	202.4	184.5	5272.	4876.	201.4	188.4
#2	195.1	202.7	177.1	5296.	4991.	202.7	189.7
#3	195.3	203.0	185.8	5321.	4955.	203.6	189.9

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	15390.	43752.	21997.
Stddev	82.	173.	513.
%RSD	.53416	.39605	2.3309

#1	15344.	43902.	22519.
#2	15342.	43562.	21494.
#3	15485.	43791.	21980.

Sample Name: S301080-CCB1 Acquired: 1/31/2013 11:36:29 Type: QC

Method: PROM-2013(v11) Mode: CONC Corr. Factor: 1.000000

User: RR : Instrument: ICAP6300 Method: SOP-C-109

Comment:

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-4508	-11.27	-3.451	-1272	-.0249	5.463	-.2260	.6421	-.1122	.9147	1.237
Stddev	.1321	24.72	1.217	.1986	.2489	.795	.1001	.1966	.3222	.7271	1.674
%RSD	29.30	219.5	35.28	156.1	1001.	14.55	44.29	30.62	287.2	79.49	135.4

#1	-3494	-12.41	-2.924	-.1051	-.2133	4.860	-.3415	.5610	.2387	.6643	1.418
#2	-.6002	-.35.40	-.4.843	-.3360	-.1185	6.364	-.1648	.4991	-.3946	1.734	2.813
#3	-.4028	14.01	-.2.585	.0594	.2573	5.164	-.1717	.8663	-.1807	.3459	-.5208

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Ti1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	129.3	-6.534	-.0047	-17.31	.9104	1.697	-2.744	2.101	1.226	-.1557	.0581
Stddev	88.1	12.16	.1024	13.08	.9617	1.847	2.721	5.602	3.221	.6725	.3732
%RSD	68.13	186.1	2168.	75.57	105.6	108.8	99.15	266.6	262.7	431.9	642.3

#1	31.61	7.380	.1122	-20.39	1.996	3.484	-.5178	-.7410	4.574	.0610	-.2749
#2	153.7	-11.87	-.0481	-2.962	.1655	-.2037	-1.937	-1.510	-1.852	-.9099	.4614
#3	202.7	-15.11	-.0783	-28.57	.5695	1.812	-5.777	8.555	.9564	.3817	-.0122

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.5267	.1212	3.397	3.818	-13.87	-.4489	.3807
Stddev	.2034	.0774	1.113	2.036	44.20	.4763	.8961
%RSD	38.62	63.90	32.75	53.33	318.7	106.1	235.3

#1	.6273	.1523	2.234	6.165	-61.37	.0849	-.5834
#2	.6601	.0330	4.451	2.532	26.05	-.8307	1.188
#3	.2926	.1783	3.508	2.756	-6.296	-.6008	.5377

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	15489.	43644.	21863.
Stddev	49.	192.	246.
%RSD	.31382	.43950	1.1236

#1	15434.	43531.	22035.
#2	15506.	43536.	21972.
#3	15527.	43866.	21581.

Sample Name: S301080-LCV3 Acquired: 1/31/2013 11:41:03 Type: QC

Method: PROM-2013(v11) Mode: CONC Corr. Factor: 1.000000

User: RR Instrument: ICAP6300 Method: SOP-C-109

Comment:

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.580	89.35	8.003	95.60	2.922	494.4	3.230	20.73	5.770	10.31	47.49
Stddev	.820	13.13	2.261	1.57	.133	9.2	.502	2.33	.207	.32	1.83
%RSD	17.89	14.69	28.25	1.645	4.538	1.864	15.56	11.26	3.582	3.121	3.850

#1	5.109	75.16	5.654	96.10	3.072	496.5	3.035	19.37	5.584	10.36	49.33
#2	4.994	101.1	8.192	96.86	2.874	502.4	3.801	23.42	5.992	9.963	45.67
#3	3.636	91.84	10.16	93.84	2.821	484.3	2.854	19.38	5.733	10.60	47.47

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value											
Range											

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Ti1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	498.3	485.5	5.392	945.4	23.35	9.337	18.91	25.53	17.27	20.63	21.43
Stddev	76.1	29.3	.008	25.9	4.01	1.256	2.37	5.39	2.49	.54	3.23
%RSD	15.28	6.038	.1401	2.736	17.19	13.46	12.54	21.10	14.42	2.604	15.09

#1	574.9	457.8	5.400	944.1	20.95	8.139	18.84	27.93	15.56	20.57	19.44
#2	497.4	516.2	5.389	971.9	27.98	9.229	21.32	29.31	20.13	21.19	25.16
#3	422.6	482.3	5.385	920.2	21.12	10.64	16.58	19.36	16.13	20.12	19.69

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value											
Range											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	10.75	10.10	F 13.62	510.1	436.6	9.897	12.02
Stddev	1.47	.04	3.51	4.0	30.9	.548	2.65
%RSD	13.72	.3545	25.76	.7806	7.069	5.541	22.08

#1	9.787	10.06	15.03	512.1	469.9	10.04	10.46
#2	12.45	10.11	16.21	512.7	431.2	9.291	15.09
#3	10.02	10.13	9.629	505.5	408.8	10.36	10.51

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value			10.00				
Range			30.00%				

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	14690.	43660.	21443.
Stddev	1401.	653.	191.
%RSD	9.5341	1.4952	.89066

#1	15413.	43181.	21499.
#2	13076.	43396.	21230.
#3	15582.	44404.	21600.

Sample Name: S301080-LCV4 Acquired: 1/31/2013 11:45:35 Type: QC

Method: PROM-2013(v11) Mode: CONC Corr. Factor: 1.000000

User: RR Instrument: ICAP6300 Method: SOP-C-109

Comment:

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	10.23	190.9	13.65	191.3	5.763	988.1	6.039	38.27	11.06	21.21	92.01
Stddev	.38	17.2	4.61	1.5	.270	12.4	.101	.37	.46	.21	1.12
%RSD	3.715	9.001	33.76	.7937	4.692	1.260	1.679	.9661	4.178	.9822	1.217

#1	9.793	208.2	13.58	189.6	5.510	973.8	5.946	38.15	11.25	21.18	90.92
#2	10.51	173.8	18.30	192.0	6.048	996.5	6.147	38.68	11.40	21.02	91.94
#3	10.37	190.8	9.079	192.4	5.729	994.0	6.024	37.97	10.54	21.43	93.16

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value											
Range											

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Ti1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1012.	992.0	10.83	1932.	39.95	16.93	37.41	40.70	37.79	41.54	39.46
Stddev	63.	51.4	.04	7.	.42	.80	1.63	4.18	4.13	.45	.34
%RSD	6.191	5.178	.3294	.3670	1.060	4.699	4.356	10.27	10.92	1.073	.8643

#1	1056.	974.4	10.81	1924.	39.76	16.17	35.73	41.05	33.16	41.49	39.83
#2	1041.	1050.	10.81	1935.	40.44	16.88	38.98	44.69	41.09	41.11	39.17
#3	940.5	951.8	10.87	1937.	39.65	17.75	37.52	36.36	39.13	42.00	39.36

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value											
Range											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	19.64	20.36	23.47	1030.	922.1	20.75	20.41
Stddev	.29	.34	4.36	9.	16.7	.38	1.68
%RSD	1.490	1.677	18.58	.8687	1.816	1.849	8.224

#1	19.37	20.75	27.52	1037.	903.2	20.37	21.35
#2	19.59	20.20	18.86	1020.	935.1	21.14	21.40
#3	19.95	20.12	24.05	1033.	928.0	20.73	18.47

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	15470.	43349.	20968.
Stddev	108.	40.	379.
%RSD	.69757	.09129	1.8094

#1	15346.	43375.	21134.
#2	15520.	43369.	20534.
#3	15543.	43303.	21236.

Sample Name: S301080-IFA2 Acquired: 1/31/2013 11:50:08 Type: QC

Method: PROM-2013(v11) Mode: CONC Corr. Factor: 1.000000

User: RR Instrument: ICAP6300 Method: SOP-C-109

Comment:

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0671	312900.	-1.473	.2014	.1050	288100.	F 7.789	-.5766	-1.431	.9963	283100.
Stddev	.6428	2554.	2.458	.5384	.0971	6836.	.155	.0691	.562	1.017	4363.
%RSD	957.2	.8161	166.9	267.3	92.52	2.372	1.992	11.99	39.24	102.1	1.541

#1	-.0195	310000.	-4.031	.1359	.1021	280300.	7.802	-.5535	-.8246	-.0615	278100.
#2	.7489	314600.	-1.257	.7695	.0093	292400.	7.938	-.5220	-1.933	1.083	285400.
#3	-.5279	314300.	.8699	-.3012	.2035	291800.	7.628	-.6543	-1.537	1.967	285900.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							3.000				
Low Limit							-3.000				

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Ti1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-44.40	290400.	.1457	263000.	6.491	-6.688	3.858	13.97	.3454	-1.546	4.788
Stddev	48.27	1141.	.0444	3854.	.558	.996	8.074	2.83	1.397	.408	.472
%RSD	108.7	.3929	30.46	1.465	8.594	14.89	209.3	20.26	404.6	26.36	9.864

#1	-34.30	289200.	.1646	267100.	6.271	-5.786	12.31	17.02	-1.024	-1.677	4.761
#2	-96.93	291500.	.1775	262300.	7.125	-6.522	-3.773	11.43	.2913	-1.089	5.274
#3	-1.977	290400.	.0950	259500.	6.077	-7.757	3.037	13.46	1.769	-1.873	4.330

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.598	-.2756	F 19.44	-15.34	-50.43	.9491	3.559
Stddev	.264	.1339	3.49	2.46	24.09	.0340	2.266
%RSD	16.55	48.58	17.97	16.07	47.77	3.588	63.66

#1	-1.849	-.2294	15.41	-17.41	-76.27	.9210	4.522
#2	-1.322	-.1710	21.64	-12.61	-28.59	.9870	5.186
#3	-1.622	-.4265	21.28	-15.99	-46.42	.9393	.9711

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			10.00				
Low Limit			-10.00				

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	14028.	38973.	20550.
Stddev	73.	203.	55.
%RSD	.51794	.52027	.26971

#1	13949.	39008.	20486.
#2	14045.	38755.	20579.
#3	14091.	39156.	20584.