

2017 PERIODIC REVIEW REPORT

FORMER DIARSENOL COMPANY – KINGSLEY PARK SITE
NYSDEC ID: C915124

17-039-1144

Prepared for:

City of Buffalo
Office of Strategic Planning
Division of Environmental Affairs

Prepared by:

LiRo Engineers, Inc.
690 Delaware Avenue
Buffalo, New York 14209

April 28, 2017

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1.0 Introduction

LiRo Engineers, Inc. (LiRo) has prepared this Periodic Review Report (PRR) on behalf of the City of Buffalo (COB) to summarize the post remedial status of the New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Program (BCP) Site No. 915124, located on Kingsley Street in the City of Buffalo, Erie County, New York (Site; see Figure 1).

This PRR has been prepared for the Former Diarsenol Company – Kingsley Park Site in accordance with NYSDEC DER-10 *Technical Guidance for Site Investigation and Remediation.* The NYSDEC Institutional and Engineering Controls (IC/EC) Certification Form has been completed for the Site (Appendix A). This PRR and associated inspection form have been completed for the post-remedial activities at the Site for the reporting period from November 11, 2011 to November 11, 2016.

1.1 Background Information

The Diarsenol Company, Kingsley Park Site is an approximately 2-acre Inactive Hazardous Waste Site located in the City of Buffalo, Erie County, New York (Figure 1). The Site is situated in an urban residential neighborhood and is bounded by Kingsley Street to the south and Riley Street to the north (Figure 2). The Site is east of Jefferson Avenue and west of Roeher Avenue, with homes located in close proximity to the Park along the south sides of Riley and Kingsley Streets. There are no nearby bodies of water and the Site is flat with no more than one to two feet of local topographic relief.

The Diarsenol Company was a pharmaceutical manufacturer that produced an arsenic-based medication consisting of up to 31 percent arsenic. The company operated from 1925 until the early 1940's at the Kingsley Park location. From the 1940's until 1967, various owners occupied the Site. In 1967, the City of Buffalo acquired the property and by 1972 all of the Diarsenol buildings were removed and a public park and playground were in place.

It is suspected that off-specification products or unused raw materials were disposed behind the former building in a depression detected during the Site investigation or otherwise released during building demolition.

1.2 Regulatory History

A number of sampling and environmental investigations have been conducted at the Site. Previous activities include sampling by the Erie County Department of Environmental Planning in 1983, NUS Corp. in 1986, Ecology & Environment in 1989 (NYSDEC Phase II Study), and the New York State Department of Health (NYSDOH) in June and July 1990.

In September 1990, the NYSDEC requested that Engineering-Science, Inc. (ES) conduct an Interim Remedial Investigation (IRI) of the Site. The IRI consisted of collecting and analyzing surface and subsurface soil samples from the park and surrounding properties, installing 14 soil borings, and constructing one groundwater monitoring well. Soil sampling determined that shallow soils in the park surrounding properties, as well as a localized area of deeper soils in the park, were contaminated with

arsenic at levels ranging from background, which was determined to be 10-20 parts per million (ppm), to 7,090 ppm.

The ES IRI Report was completed in February 1991. In March 1991, the NYSDEC approved the report, prepared a bid package, and procured a contractor for an Interim Remedial Measure (IRM). The IRM consisted of excavation and removal of soils containing elevated arsenic levels from the park and surrounding properties, backfilling and restoration, and the installation of four groundwater monitoring wells. During the IRM, a total of 11,549 tons of arsenic-contaminated soil were removed from the Site. Of this total, approximately 1,981 tons of soil was disposed as hazardous waste and 9,568 tons were disposed as non-hazardous waste. The construction phase of the IRM was completed in June 1992.

Following completion of the IRM, the new wells were sampled and arsenic was detected at levels exceeding groundwater standards. Two additional rounds of groundwater sampling were conducted by ES in 1992. Arsenic was detected at levels exceeding groundwater standards in three of the five Site wells. In order to address this contamination, the NYSDEC issued a work assignment to ES in June 1993 to conduct a supplemental Remedial Investigation/Feasibility Study (RI/FS). ES completed the field investigation in December 1993 and the final report was issued in February 1994.

A Record of Decision (ROD) was signed on March 31, 1994 calling for the installation of a shallow groundwater collection system to collect groundwater in areas where it fails to meet standards and convey the collected groundwater to a municipal sewer line. The ROD also called for continued monitoring of Site groundwater.

2.0 Site Overview

ES completed the remedial design in October 1994 and provided construction management for the installation of a shallow groundwater collection system. Construction was completed on November 25, 1994 and consisted of the installation of an approximately 7-foot deep trench in the vicinity of MW-1, MW-2, and MW-3 (Figure 2). The collection system uses the relatively high permeability fill installed previously during the IRM and crushed stone to collect the contaminated groundwater. Collected groundwater is discharged to the sanitary sewer system under Riley Street. The collection trench is equipped with a sampling port that is monitored by the Buffalo Sewer Authority (BSA) for arsenic (total and dissolved), barium, cadmium, and bis(2-ethylhexyl)phthalate. Site monitoring also includes quinquennial collection and analysis of groundwater from two on-site monitoring wells and the preparation of an isopotential groundwater elevation map.

3.0 Site Management

3.1 Monitoring and Maintenance Program

3.1.1 Groundwater Monitoring

The 2011 PRR (submitted by Benchmark on December 5, 2011 recommended modification of the groundwater monitoring frequency from semi-annually to a single event every five years (quinquennial). The NYSDEC accepted the 2011 PRR on April 16, 2012 with the recommended modification. The following groundwater monitoring activities are being performed to monitor the effectiveness of the shallow groundwater collection system:

- Quinquennial groundwater sample collection from monitoring wells MW-1 and MW-2 using low-flow sampling techniques;
- Analysis of field parameters (pH, oxidation-reduction potential, temperature, turbidity, and specific conductivity) at MW-1 and MW-2 during the low-flow sampling procedure;
- Analysis of the collected samples for total arsenic and cadmium by a NY State Department of Health ELAP-certified laboratory;
- Inspection and documentation of the structural integrity of the monitoring wells; and,
- Quinquennial collection of groundwater elevation data from all monitoring wells (MW-1 through MW-9).

Due to the requirement to complete the 2017 PRR by April 30, 2017, groundwater level monitoring and sampling was performed on April 17, 2017.

Water levels were measured in eight of the nine monitoring wells. Monitoring well MW-8 was not measured as access to private property could not be obtained at the time of the monitoring event.

Table 1 provides a summary of the groundwater elevation data from the Site monitoring wells that were measured on April 17, 2017. Figure 3 presents an isopotential groundwater surface map at the time of groundwater measurement.

Following collection of monitoring well water levels, monitoring wells MW-1 and MW-2 were sampled using standard low-flow sampling techniques. A “blind” duplicate sample (D1K1-GW-MW-10) was collected from monitoring MW-1 as a quality control/quality assurance check.

Laboratory analytical results and field parameters collected from monitoring wells MW-1 (M1K1-GW-MW-01) and MW-2 (M1K1-GW-MW-02) on April 17, 2017 are summarized in Table 2. Monitoring well purge and sample logs are provided in Appendix D. Laboratory analytical reports are provided in

Appendix E. Analytical data collected from the collection system by BSA between 2012 and 2017 are summarized in Table 3.

3.1.2 Quinquennial Inspection and Certification

In accordance with NYSDEC DER-10 6.3(a)(4), this PRR is to provide the information necessary to document the basis for the IC/EC certification. The certification primarily consists of a quinquennial Site inspection to complete the NYSDEC's IC/EC Certification Form in order to confirm that the IC/ESs:

- Are in place, performing properly, and remain effective;
- That nothing has occurred that would impair the ability of the controls to protect the public health and environment;
- That nothing has occurred that would constitute a violation or failure to comply with any operation and maintenance plan for such controls; and,
- That access is available to the Site to evaluate continued maintenance of such controls.

A Site inspection of the property was conducted on April 17, 2017 by a LiRo employee who meets the requirements of a Qualified Environmental Professional (QEP). At the time of the inspection, the Site was in compliance with the EC/ICs. Appendix A includes the completed Institutional and Engineering Controls Certification form and Appendix B contains the completed Site inspection form. Appendix C provides a photographic log showing the current condition of the Site.

3.2 Engineering and Institutional Control Requirements and Compliance

The following engineering and institutional controls are to be maintained as a requirement of the BCA for the Site:

- **Engineering Control**: The groundwater collection trench continues to operate as designed and is being maintained and monitored as required.
- **Institutional Control**: The monitoring and maintenance activities outlined in Benchmark's March 18, 2004 letter are being conducted.

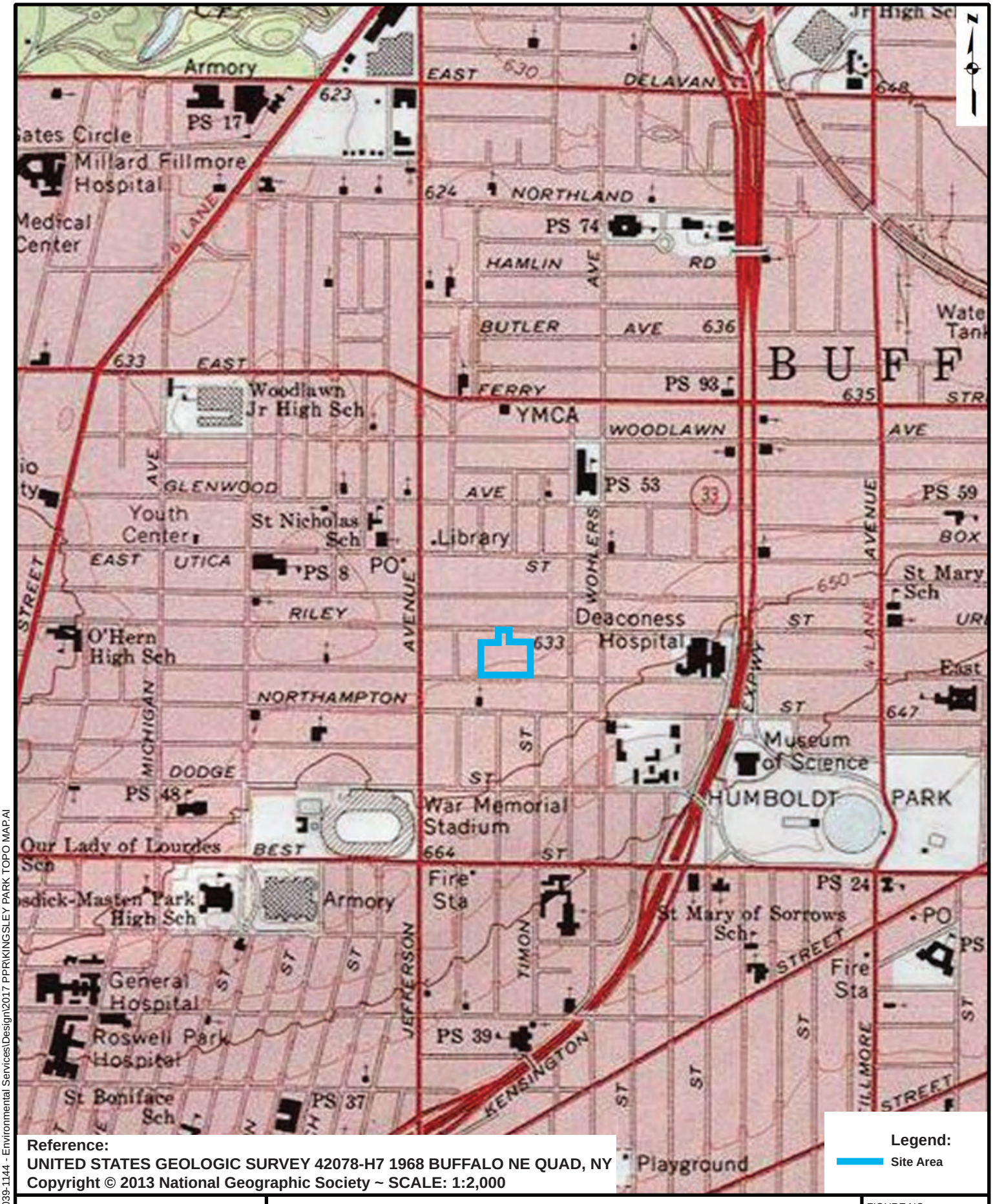
4.0 Conclusions and Recommendations

Conclusions from the monitoring, maintenance, and inspection activities performed during the current PRR reporting period are as follows:

- The shallow groundwater collection system has been in operation for nearly 23 years.
- At the time of the Site inspection, the Site was in compliance with the Engineering and Institutional Controls including: groundwater monitoring, inspection, and maintenance of the groundwater monitoring wells; inspection and maintenance of the collection system; and monitoring of the discharge to the sanitary sewer.
- Analytical results obtained from MW-1 and MW-2 during April 2017 indicate that total arsenic concentrations exceed the Class "GA" Groundwater Quality Standard (GWQS) of 0.025 milligrams per liter (mg/L) at both monitoring wells MW-1 (0.0796 mg/L) and MW-02 (0.575 mg/L). These results are consistent with previous (2004 through 2010) sampling events. The cadmium concentrations were below the GWQS of 0.005 mg/L at both MW-1 (0.00154 mg/L) and MW-2 (0.00075 mg/L).
- Analytical results were obtained by BSA for the collection system water samples (permit #10-03-BU216) collected on August 21, 2012, August 28, 2013, September 17, 2014, September 17, 2015, September 13, 2016, and April 13, 2017. The analytical results indicate barium concentrations between 0.018 mg/L and 0.126 mg/L which are below the BSA's discharge requirement of 10 mg/L. Bis-2-ethylhexyl phthalate was not detected during this reporting period. Arsenic was detected in the September 2016 sample at a concentration of 0.026 mg/L which is below the discharge requirement of 1.8 mg/L. Cadmium was also detected in the September 2016 and April 2017 samples at concentrations of 0.038 mg/L and 0.007 mg/L, respectively which are below the discharge requirement of 1 mg/L.
- Based on visual inspection, the groundwater monitoring wells were observed to be structurally sound with the following exceptions:
    - The concrete surface seal at well MW-2 is loose, the road box lid is broken, and the expandable well plug is missing.
    - The road box at MW-5 is missing the lid.
    - The concrete surface seal at MW-9 is cracked and soils have accumulated around the well riser.
- Based on a visual inspection of the collection system sampling port and cleanout (the only portions of the collection system visible for inspection), no repairs are necessary.

Based on the conclusions presented above, the shallow groundwater collection has been in operation and compliance with the Site Monitoring and Maintenance Plan for nearly 23 years with little to no change in groundwater quality since 2004. Similarly, the hydraulic capture of this system has shown little to no change during this period. LiRo recommends continuing Site monitoring at a frequency of annually for Site and monitoring well inspections and once every five years for groundwater sampling and water level measurements. In addition, LiRo recommends making repairs to monitoring wells MW-2, MW-5, and MW-9.

Figures



Reference:
UNITED STATES GEOLOGIC SURVEY 42078-H7 1968 BUFFALO NE QUAD, NY
Copyright © 2013 National Geographic Society ~ SCALE: 1:2,000

Legend:
Site Area

LiRo-Engineers, Inc.
690 Delaware Ave.
Buffalo, New York

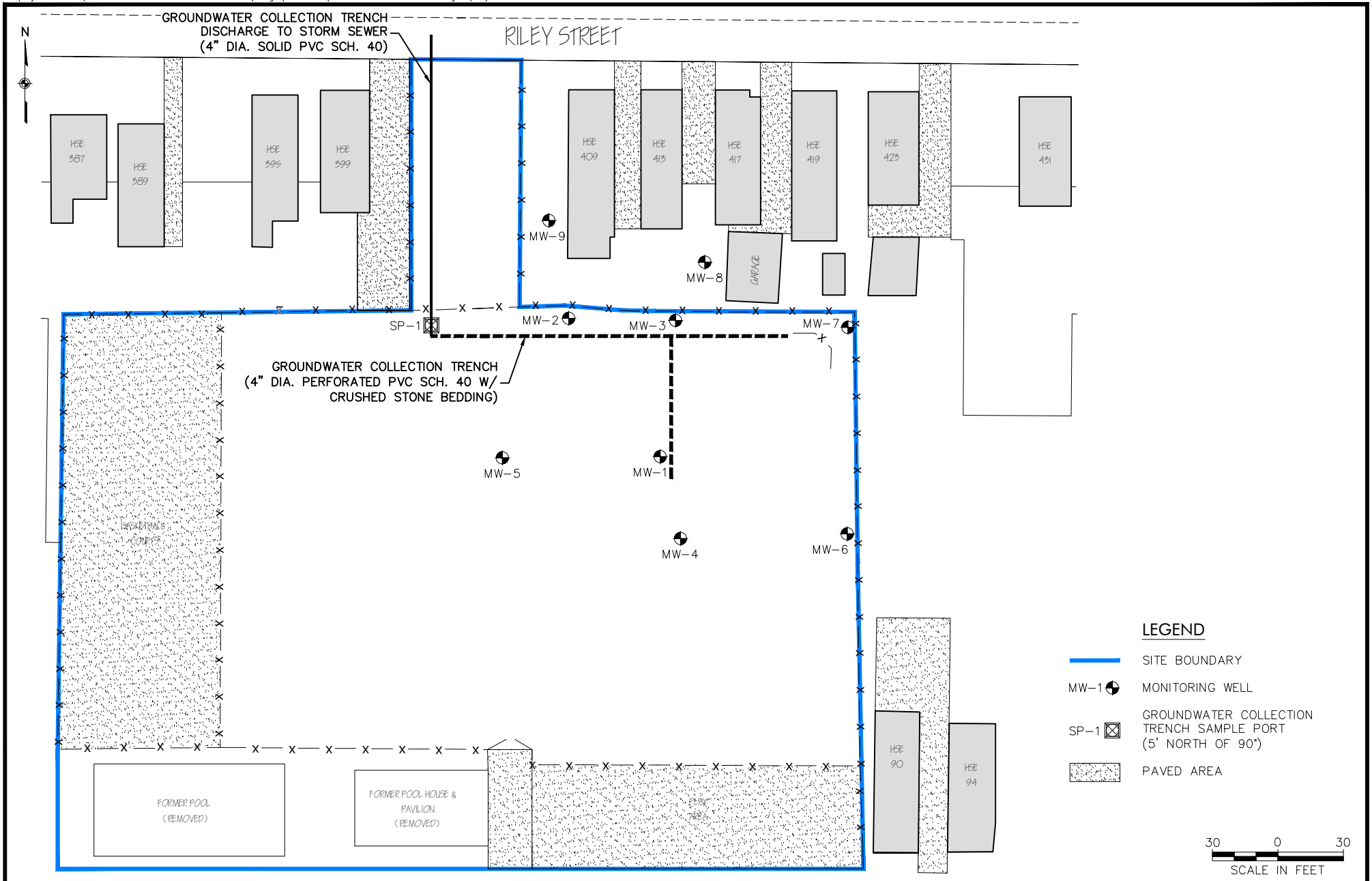
KINGSLEY PARK
SITE TOPOGRAPHIC LOCATION MAP

FIGURE NO.
1

V:\City of Buffalo\17-039-1144 - Environmental Services\Design\2017 PPR\KINGSLEY PARK TOPO MAP.AI

V:\City of Buffalo\17-039-1144 - Environmental Services\Design\2017 PPR\KINGSLEY PARK SITE PLAN.dwg 4/25/2017 12:06 PM

REV-1

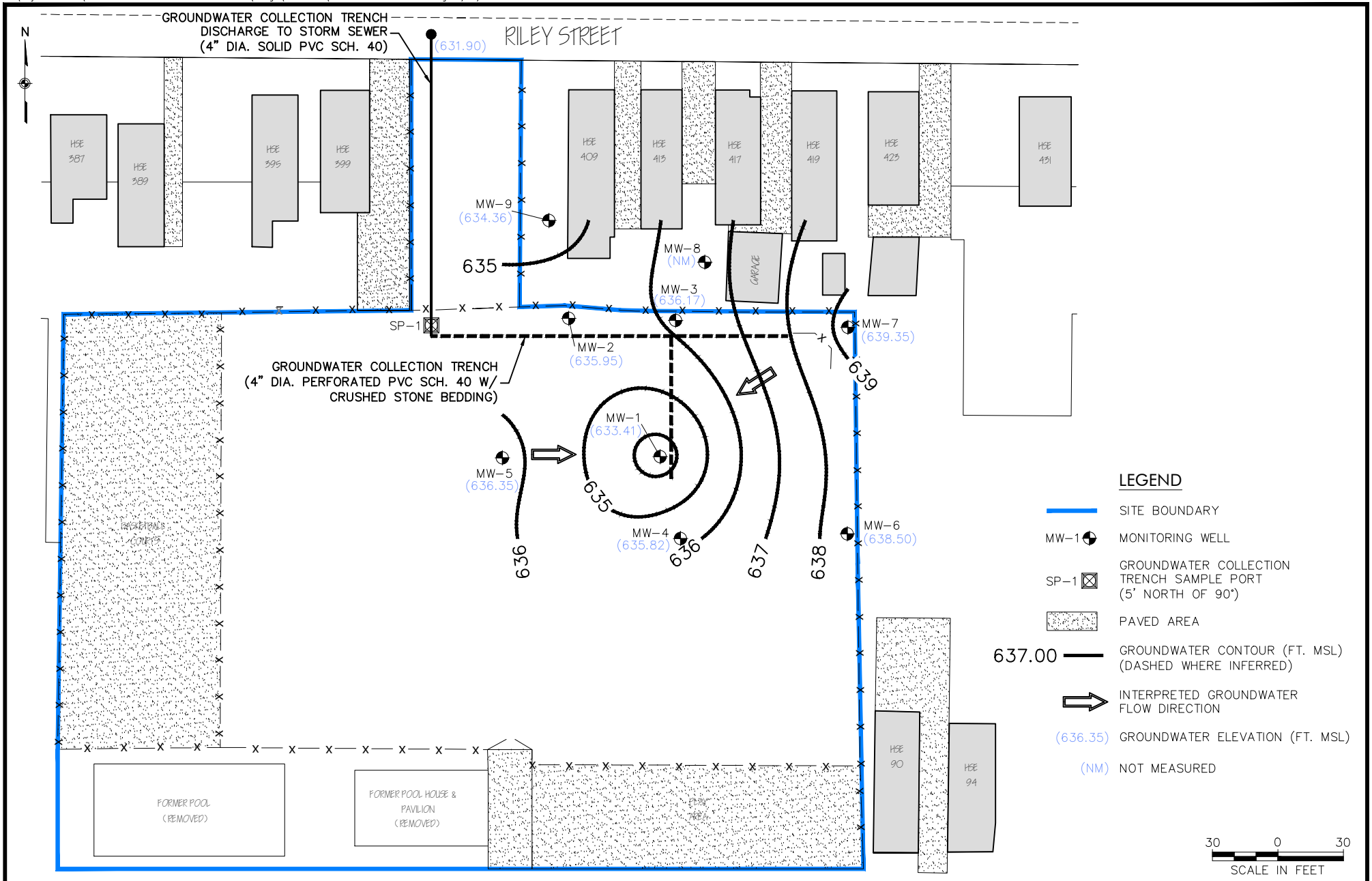


LiRo Engineers, Inc.
690 Delaware Avenue
Buffalo, New York

KINGSLEY PARK
SITE PLAN

FIGURE NO.

2



LiRo Engineers, Inc.
690 Delaware Avenue
Buffalo, New York

KINGSLEY PARK
ISOPOTENTIAL GROUNDWATER ELEVATION MAP - APRIL 17, 2017

FIGURE NO.

3

Tables

TABLE 1

SUMMARY OF GROUNDWATER ELEVATIONS
APRIL 2017 MONITORING EVENT

Former Diarsenol Company - Kingsley Park Site (915124)
City of Buffalo, New York

Well ID	Top of Casing Elevation (ft. AMSL)	4/17/17 Depth to Water (ft. BTOC)	Groundwater Elevation (ft. AMSL)
MW-1	640.71	7.3	633.41
MW-2	640.71	4.76	635.95
MW-3	640.97	4.8	636.17
MW-4	639.87	4.05	635.82
MW-5	640.49	4.14	636.35
MW-6	640.37	1.87	638.5
MW-7	641.06	1.71	639.35
MW-8	639.6	NM[1]	NA
MW-9	639.45	5.09	634.36

Notes:
1 - Could not gain access to private property at time of monitoring event.
ft. AMSL - feet above mean sea level.
ft. BTOC - feet below top of casing.
NM - Not measured.
NA - Not available

TABLE 2

SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
APRIL 2017 MONITORING EVENT

Former Diarsenol Company - Kingsley Park Site (915124)
City of Buffalo, New York

PARAMETER	Monitoring Location		Class "GA" GWQS[2]
	MW-1[1]	MW-2	
Field Measurements			
pH (standard units)	7.38	6.92	6.5 - 8.5
Temperature (°C)	10.51	9.06	NA
Specific Conductance (mS/cm)	0.718	1.34	NA
Turbidity (NTU)	0	23.5	NA
ORP (mV)	80	43	NA
Dissolved Oxygen (mg/L)	0	0	NA
Appearance (visual)	Clear	Clear	NA
Odor (olfactory)	None	None	NA
Inorganic Compounds (mg/L)			
Total Arsenic	**0.0796**	**0.575**	0.025
Total Cadmium	0.00154	0.00075 J	0.005

Notes:

1 - Reported values represent the average value of sample and duplicate sample results.

2 - NYSDEC Class "GA" Groundwater Quality Standards/Guidance Values (GWQS/GV) as per 6 NYCRR Part 703.

Bold - represents exceedance of GWQS.

NA - Not Applicable; a GWQS has not been established for this parameter.

TABLE 3

SUMMARY OF SEWER DISCHARGE ANALYTICAL RESULTS
AUGUST 2012 TO APRIL 2017

Former Diarsenol Company - Kingsley Park Site (915124)
City of Buffalo, New York

PARAMETER	MAID	Sample Date/Result (mg/L)					
		8/21/2012	8/28/2013	9/17/2014	9/17/2015	9/13/2016	4/13/2017
BEHP	1	0	0	0	0	0	0
Arsenic	1.8	0	0	0	0	0.026	0
Cadmium	1	0	0	0	0	0.038	0.007
Barium	10	0.018	0.023	0.024	0.026	0.221	0.05
pH	5 - 12	7	NM	NM	NM	6	NM

Notes:
MAID - Maximum Allowable Instantaneous Discharge
BEHP - Bis2(ethylhexyl)phthalate
mg/L - milligrams per liter
NM - Not measured

Appendix A
PRR Certification Form

Enclosure 2

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Site Management Periodic Review Report Notice
Institutional and Engineering Controls Certification Form

Site Details **Box 1**

Site No. 915124

Site Name Diarsenol Co., Kingsley Park

Site Address: Kingsley Street Zip Code: 14208
City/Town: Buffalo
County: Erie
Site Acreage: 2.0

Reporting Period: November 11, 2011 to November 11, 2016

	YES	NO
1. Is the information above correct?	☒	☐
If NO, include handwritten above or on a separate sheet.		
2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?	☐	☒
3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?	☐	☒
4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?	☐	☒
If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.		
5. Is the site currently undergoing development?	☐	☒

Box 2

	YES	NO
6. Is the current site use consistent with the use(s) listed below? Restricted-Residential, Commercial, and Industrial	☒	☐
7. Are all ICs/ECs in place and functioning as designed?	☒	☐

IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative _____ Date _____

SITE NO. 915124

Box 3

Description of Institutional Controls

Parcel	Owner	Institutional Control
100.50-5-18.1	City of Buffalo	O&M Plan

Site Monitoring and Maintenance Plan (12/1994)
- Maintain groundwater collection trench discharging to municipal sewer sytem and groundwater monitoring wells.
- Groundwater monitoring.

Box 4

Description of Engineering Controls

Parcel	Engineering Control
100.50-5-18.1	Leachate Collection

Box 5

Periodic Review Report (PRR) Certification Statements

1. I certify by checking "YES" below that:

   a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the certification;

   b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and compete.

YES	NO
☒	☐

2. If this site has an IC/EC Plan (or equivalent as required in the Decision Document), for each Institutional or Engineering control listed in Boxes 3 and/or 4, I certify by checking "YES" below that all of the following statements are true:

   (a) the Institutional Control and/or Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;

   (b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;

   (c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;

   (d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and

   (e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

YES	NO
☒	☐

IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative

Date

IC CERTIFICATIONS
SITE NO. 915124

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 1,2, and 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Stephen Frank (print name) at 690 Delaware Ave. Buffalo, NY (print business address)

am certifying as Remedial Party (Owner or Remedial Party)

for the Site named in the Site Details Section of this form.

Signature of Owner, Remedial Party, or Designated Representative Rendering Certification

4/28/17
Date

IC/EC CERTIFICATIONS

Box 7

Qualified Environmental Professional Signature

I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Martin Wesolowski at 690 Delaware Ave Buffalo NY 14209
print name print business address

am certifying as a Qualified Environmental Professional for the City of Buffalo
(Owner or Remedial Party)



4/28/2017

Signature of Qualified Environmental Professional, for the Owner or Remedial Party, Rendering Certification

Stamp (Required for PE)

Date

Appendix B
Site Inspection Form

TABLE C.4
WELL INSPECTION CHECKLIST
DIARSENOL COMPANY KINGSLEY PARK

Well Number	TOIC (1) Elevation (Ft/ASL) (NASL)	Well Depth (feet)	TOIC Water Level (feet)	Well Marking (G/F/P)	Casing Lock (G/F/P)	Protective Cover (G/F/P)	Well Cap (G/F/P)	Obstructions in Well (Y/ N)	Water in Annulet (Y/ N)	Concrete Pad (G/F/P)	Inspection Date	Comments	Volume Purged (Gallons)
				Well Inspection (GOOD/FAIR/POOR OR YES/NO)									
MW-1	640.71	12.5	7.30	No	No	good	yes	no	no	good	4/17/17		
MW-2	640.71	13.0	4.76	No	No	broken	no	no	no	good	4/17/17	3bolt lid (missing)	
MW-3	641.06	13.0	4.80	No	yes	good	yes	no	no	good	4/17/17		not sampled
MW-4	639.87	13.0	4.05	No	No	missing 1 bolt	yes	no	yes	good	4/17/17		Not sampled
MW-5	640.49	13.0	4.14	No	No	missing lid	yes	no	no	loose	4/17/17	needs lid	Not sampled
MW-6	640.61	12.5	1.87	No	No	good	yes	No	no	good	4/17/17		not sampled
MW-7	641.06	12.0	1.71	No	yes	good	yes	no	yes	good	4/17/17		not sampled
MW-8	639.60	14.0	NM										
MW-9	639.45	13.5	5.09	No	no	missing 2 of 3 bolts	yes	no	no (dirt)	cracked collar	4/17/17		not sampled

(1) - TOP OF INNER CASING

Backyard of house between 409 and 417 Riley Street

SP-1	7.6 W/L 7.65 bottom	No	yes	good	yes	no	good	4/17/17	Not sampled

1 photo each in order.

R:\WP\723861\TABLEC4.WK3

Appendix C
Site Photographs

Site Photos



Site view facing east.



Site view facing north.

Site Photos



Monitoring Well MW-1.



Monitoring Well MW-2 (Broken lid and missing J-plug).

Site Photos

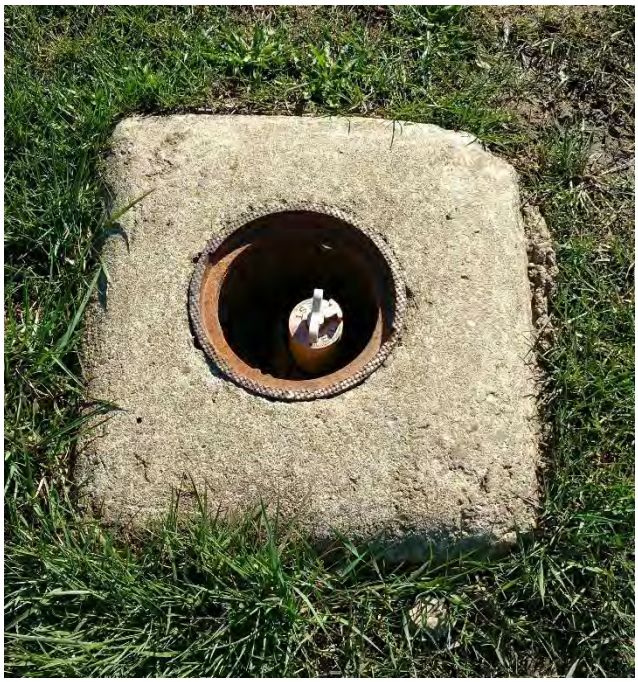


Monitoring Well MW-3.



Monitoring Well MW-4.

Site Photos



Monitoring Well MW-5 (Missing lid).

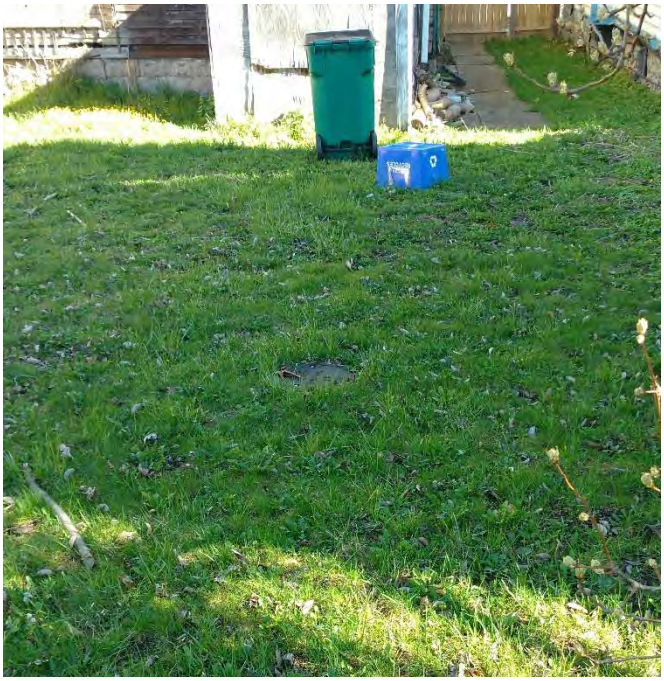


Monitoring Well MW-6.

Site Photos



Monitoring Well MW-7 (Standing water in curb box).



Monitoring Well MW-8.

Site Photos



Monitoring Well MW-9 (Cracked concrete surface seal and accumulated soil).



Collection System SP-1.

Appendix D
Monitoring Well Purge and Stabilization Logs

MONITORING WELL RECORD FOR LOW-FLOW PURGING

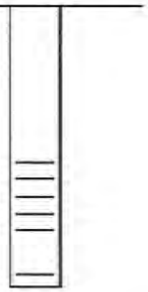
Project Data:

Project Name: COB - Kingsley Park
Ref. No.: 17-039-11144
Date: 4/17/17
Personnel: Kris Chaloney

Monitoring Well Data:

Well No.: MW-2
Vapour PID (ppm): NM
Measurement Point: TOC
Constructed Well Depth (m/ft): 13.0
Measured Well Depth (m/ft): 13.0
Depth of Sediment (m/ft): 0

Saturated Screen Length (m/ft): 8.2
Depth to Pump Intake (m/ft)[1]: ~12
Well Diameter, D (cm/in): 2"
Well Screen Volume, V_s (L)[2]: 1.3 gallons
Initial Depth to Water (m/ft): 4.76



Time	Pumping Rate (mL/min)	Depth to Water (m/ft)	Drawdown from Initial Water Level[3] (m/ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Volume Purged, Vp (L)	No. of Well Screen Volumes Purged[4]
			Precision Required:	±3 %	±3 %	±10 %	±10 %	±0.1 Units	±10 mV		
1256	300 mL/m	4.76		11.61	1.27	178	6.23	7.38	36		
1300	↓			9.52	1.28	96.8	0	7.15	17		
1304				9.10	1.31	15.0	0	7.04	27		
1308				8.95	1.33	14.2	0	6.97	37		
1312				9.00	1.34	13.8	0	6.93	42		
1316	↓			9.06	1.34	23.5	0	6.92	43	2 gallons	
1317	Collected Sample DUP1-GW-MW-02 for Total Arsenic and Cadmium										

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s=\pi*(r^2)*L$ in mL, where r (r=D/2) and L are in cm. For Imperial units, $V_s=\pi*(r^2)*L*(2.54)^3$, where r and L are in inches

(3) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= Vp/Vs.

MONITORING WELL RECORD FOR LOW-FLOW PURGING

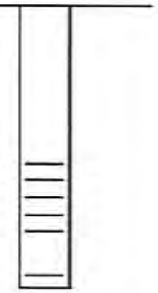
Project Data:

Project Name: COB - Kingsley Park
Ref. No.: 17-039-1144
Date: 4/17/17
Personnel: Kris Charney

Monitoring Well Data:

Well No.: MW-1
Vapour PID (ppm): NM
Measurement Point: TOC
Constructed Well Depth (m/ft): 12.5
Measured Well Depth (m/ft): 12.5
Depth of Sediment (m/ft): 0

Saturated Screen Length (m/ft): 5.2
Depth to Pump Intake (m/ft)[1]: ~11.5
Well Diameter, D (cm/in): 2"
Well Screen Volume, V_s (L)[2]: 0.8 gallons
Initial Depth to Water (m/ft): 7.3



Time	Pumping Rate (mL/min)	Depth to Water (m/ft)	Drawdown from Initial Water Level[3] (m/ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Volume Purged, Vp (L)	No. of Well Screen Volumes Purged[4]
			Precision Required:	±3 %	±3 %	±10 %	±10 %	±0.1 Units	±10 mV		
1120	300	7.3		10.05	0.800	2.9	2.37	7.90	80		
1124	↓			9.96	0.763	0.6	0	7.64	72		
1128				10.09	0.733	0.3	0	7.53	74		
1132				10.37	0.718	0	0	7.46	77		
1136				10.18	0.725	0	0	7.43	79		
1140				10.48	0.718	0	0	7.39	79		
1144	↓			10.51	0.718	0	0	7.38	80	2 gallons	
1145	Collected Sample DIKI-GW-MW-01 and Duplicate DIKI-GW-MW-10						Analysis for Total and		Arsenic Cadmium		

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s=\pi*(r^2)*L$ in mL, where r (r=D/2) and L are in cm. For Imperial units, $V_s=\pi*(r^2)*L*(2.54)^3$, where r and L are in inches

(3) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= Vp/Vs.

Appendix E
Laboratory Analytical Reports
(Included on Attached CD)

CHEMTECH

ANALYTICAL RESULTS SUMMARY

METALS

PROJECT NAME : KINGSLEY PARK

LIRO ENGINEERS, INC.

690 Delaware Ave.

Buffalo, NY - 14209

Phone No: 716-882-5476

ORDER ID : I2745

ATTENTION : Jon Williams

ACCREDITED IN ACCORDANCE WITH nelac

DoD ELAP

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6) Shipping Document 38

6.1) CHAIN OF CUSTODY 39

6.2) Air Bill 40

6.3) Lab Certificate 41

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Cover Page

Order ID : I2745

Project ID : Kingsley Park

Client : LiRo Engineers, Inc.

Lab Sample Number	Client Sample Number
I2745-01	D1K1-GW-MW-01
I2745-02	D1K1-GW-MW-02
I2745-03	D1K1-GW-MW-10

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

Signature : Mildred V Reyes

APPROVED

Date: 4/24/2017

By Mildred V Reyes, QAQC Supervisor at 10:52 am, Apr 24, 2017

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

2

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

FORM S-I

SAMPLE IDENTIFICATION AND ANALYTICAL REQUIREMENT SUMMARY

NYSDEC Sample ID/Code	Laboratory Sample ID/Code	VOA GC/MS (Method #)	BNA GC/MS (Method #)	VOA GC (Method #)	Pest PCBs (Method #)	Metals (Method #)	Other (Method #)
D1K1-GW-MW-01	I2745-01					6020	
D1K1-GW-MW-02	I2745-02					6020	
D1K1-GW-MW-10	I2745-03					6020	

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

FORM S-IV

SAMPLE PREPARATION AND ANALYSIS SUMMARY INORGANIC ANALYSES

Laboratory Sample ID	Matrix	Metals Requested	Date Rec'd at Lab	Date Digested	Date Analyzed
I2745-01	WATER	Metals Group4	04/18/17	04/18/17	04/18/17
I2745-02	WATER	Metals Group4	04/18/17	04/18/17	04/18/17
I2745-03	WATER	Metals Group4	04/18/17	04/18/17	04/18/17

* Details For Test :Metals Group4

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CASE NARRATIVE

LiRo Engineers, Inc.
Project Name: Kingsley Park
Project # N/A
Chemtech Project # I2745
Test Name: Metals Group4

A. Number of Samples and Date of Receipt:
3 Water samples were received on 04/18/2017.

B. Parameters:
According to the Chain of Custody document, the following analyses were requested: Metals Group4. This data package contains results for Metals Group4.

C. Analytical Techniques:
The analysis of Metals Group4 was based on method 6020 and digestion based on method 3010 (waters).

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Blank Spike met requirements for all samples.
The Duplicate analysis met criteria for all samples.
The Matrix Spike analysis met criteria for all samples.
The Matrix Spike Duplicate analysis met criteria for all samples.
The Blank analysis did not indicate the presence of lab contamination.
The Calibration met the requirements.
The Serial Dilution met the acceptable requirements.

E. Additional Comments:

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

Signature__Mildred V Reyes

APPROVED
By Mildred V Reyes, QAQC Supervisor at 10:52 am, Apr 24, 2017

DATA REPORTING QUALIFIERS- INORGANIC

For reporting results, the following " Results Qualifiers" are used:

J	Indicates the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL), but greater than or equal to the Instrument Detection Limit (IDL).
U	Indicates the analyte was analyzed for, but not detected.
ND	Indicates the analyte was analyzed for, but not detected
E	Indicates the reported value is estimated because of the presence of interference
M	Indicates Duplicate injection precision not met.
N	Indicates the spiked sample recovery is not within control limits.
S	Indicates the reported value was determined by the Method of Standard Addition (MSA).
*	Indicates that the duplicate analysis is not within control limits.
+	Indicates the correlation coefficient for the MSA is less than 0.995.
D	Indicates the reported value is from a secondary analysis with a dilution factor. The original analysis exceeded the calibration range.
M	Method qualifiers **"P"** for ICP instrument **"PM"** for ICP when Microwave Digestion is used **"CV"** for Manual Cold Vapor AA **"AV"** for automated Cold Vapor AA **"CA"** for MIDI-Distillation Spectrophotometric **"AS"** for Semi –Automated Spectrophotometric **"C"** for Manual Spectrophotometric **"T"** for Titrimetric **"NR"** for analyte not required to be analyzed
OR	Indicates the analyte's concentration exceeds the calibrated range of the instrument for that specific analysis.
Q	Indicates the LCS did not meet the control limits requirements
H	Sample Analysis Out Of Hold Time

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: I2745

	Completed
For thorough review, the report must have the following:	
GENERAL:	
Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)	✓
Check chain-of-custody for proper relinquish/return of samples	✓
Is the chain of custody signed and complete	✓
Check internal chain-of-custody for proper relinquish/return of samples /sample extracts	✓
Collect information for each project id from server. Were all requirements followed	✓
COVER PAGE:	
Do numbers of samples correspond to the number of samples in the Chain of Custody on login page	✓
Do lab numbers and client Ids on cover page agree with the Chain of Custody	✓
CHAIN OF CUSTODY:	
Do requested analyses on Chain of Custody agree with form I results	✓
Do requested analyses on Chain of Custody agree with the log-in page	✓
Were the correct method log-in for analysis according to the Analytical Request and Chain of Castody	✓
Were the samples received within hold time	✓
Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle	✓
ANALYTICAL:	
Was method requirement followed?	✓
Was client requirement followed?	✓
Does the case narrative summarize all QC failure?	✓
All runlogs and manual integration are reviewed for requirements	✓
All manual calculations and /or hand notations verified	✓

1st Level QA Review Signature: MOHINI SONI **Date:** 04/24/2017

2nd Level QA Review Signature: REVIEWED By kalpana, Data Reviewer at 10:49 am, Apr 24, 2017 **Date:**

CHEMTECH

284 Sheffield Street, Mountainside, New Jersey - 07092

Phone: (908) 789 8900 Fax: (908) 789 8922

LAB CHRONICLE

OrderID:	I2745	**OrderDate:**	4/18/2017 10:12:28 AM
Client:	LiRo Engineers, Inc.	**Project:**	Kingsley Park
Contact:	Jon Williams	**Location:**	P61

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
I2745-01	**D1K1-GW-MW-01**	**WATER**			**04/17/17**			**04/18/17**
			Metals Group4	6020		04/18/17	04/18/17	
I2745-02	**D1K1-GW-MW-02**	**WATER**			**04/17/17**			**04/18/17**
			Metals Group4	6020		04/18/17	04/18/17	
I2745-03	**D1K1-GW-MW-10**	**WATER**			**04/17/17**			**04/18/17**
			Metals Group4	6020		04/18/17	04/18/17	

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Hit Summary Sheet
SW-846

SDG No.: I2745 **Order ID:** I2745

Client: LiRo Engineers, Inc. **Project ID:** Kingsley Park

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID : D1K1-GW-MW-01									
I2745-01	D1K1-GW-MW-01	WATER	Arsenic	79.800		0.076	0.5	1	ug/L
I2745-01	D1K1-GW-MW-01	WATER	Cadmium	3.990		0.059	0.5	1	ug/L
Client ID : D1K1-GW-MW-02									
I2745-02	D1K1-GW-MW-02	WATER	Arsenic	575.000		0.076	0.5	1	ug/L
I2745-02	D1K1-GW-MW-02	WATER	Cadmium	0.750	J	0.059	0.5	1	ug/L
Client ID : D1K1-GW-MW-10									
I2745-03	D1K1-GW-MW-10	WATER	Arsenic	79.400		0.076	0.5	1	ug/L
I2745-03	D1K1-GW-MW-10	WATER	Cadmium	1.670		0.059	0.5	1	ug/L

SAMPLE DATA

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Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	04/17/17
Project:	Kingsley Park	Date Received:	04/18/17
Client Sample ID:	D1K1-GW-MW-01	SDG No.:	I2745
Lab Sample ID:	I2745-01	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7440-38-2	Arsenic	79.8		1	0.076	0.5	1	ug/L	04/18/17 12:00	04/18/17 17:05	SW6020
7440-43-9	Cadmium	3.99		1	0.059	0.5	1	ug/L	04/18/17 12:00	04/18/17 17:05	SW6020

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	Metals Group4				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	04/17/17
Project:	Kingsley Park	Date Received:	04/18/17
Client Sample ID:	D1K1-GW-MW-02	SDG No.:	I2745
Lab Sample ID:	I2745-02	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7440-38-2	Arsenic	575		1	0.076	0.5	1	ug/L	04/18/17 12:00	04/18/17 17:19	SW6020
7440-43-9	Cadmium	0.75	J	1	0.059	0.5	1	ug/L	04/18/17 12:00	04/18/17 17:19	SW6020

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	Metals Group4				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	04/17/17
Project:	Kingsley Park	Date Received:	04/18/17
Client Sample ID:	D1K1-GW-MW-10	SDG No.:	I2745
Lab Sample ID:	I2745-03	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7440-38-2	Arsenic	79.4		1	0.076	0.5	1	ug/L	04/18/17 12:00	04/18/17 17:23	SW6020
7440-43-9	Cadmium	1.67		1	0.059	0.5	1	ug/L	04/18/17 12:00	04/18/17 17:23	SW6020

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	Metals Group4				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

METAL CALIBRATION DATA

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LiRo Engineers, Inc. **SDG No.:** I2745

Contract: LIRO01 **Lab Code:** CHEM **Case No.:** I2745 **SAS No.:** I2745

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV01	Arsenic	196.87	200	98.4	90 - 110	P	04/18/2017	12:56	LB86956
	Cadmium	103.35	99.0	104.4	90 - 110	P	04/18/2017	12:56	LB86956

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LiRo Engineers, Inc. **SDG No.:** I2745

Contract: LIRO01 **Lab Code:** CHEM **Case No.:** I2745 **SAS No.:** I2745

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV63	Arsenic	496.43	500	99.3	90 - 110	P	04/18/2017	13:12	LB86956
	Cadmium	507.96	500	101.6	90 - 110	P	04/18/2017	13:12	LB86956
CCV64	Arsenic	495.57	500	99.1	90 - 110	P	04/18/2017	14:03	LB86956
	Cadmium	499.24	500	99.8	90 - 110	P	04/18/2017	14:03	LB86956
CCV65	Arsenic	501.68	500	100.3	90 - 110	P	04/18/2017	14:29	LB86956
	Cadmium	510.19	500	102	90 - 110	P	04/18/2017	14:29	LB86956
CCV66	Arsenic	506.45	500	101.3	90 - 110	P	04/18/2017	15:31	LB86956
	Cadmium	501.03	500	100.2	90 - 110	P	04/18/2017	15:31	LB86956
CCV67	Arsenic	504.52	500	100.9	90 - 110	P	04/18/2017	16:18	LB86956
	Cadmium	505.13	500	101	90 - 110	P	04/18/2017	16:18	LB86956
CCV68	Arsenic	502.25	500	100.5	90 - 110	P	04/18/2017	17:08	LB86956
	Cadmium	501.63	500	100.3	90 - 110	P	04/18/2017	17:08	LB86956
CCV69	Arsenic	504.04	500	100.8	90 - 110	P	04/18/2017	17:37	LB86956
	Cadmium	501.73	500	100.3	90 - 110	P	04/18/2017	17:37	LB86956

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Metals

- 2b -

CRDL STANDARD FOR AA & ICP

Client: LiRo Engineers, Inc. **SDG No.:** I2745

Contract: LIRO01 **Lab Code:** CHEM **Case No.:** I2745 **SAS No.:** I2745

Initial Calibration Source:

Continuing Calibration Source:

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CRI	Arsenic	0.99	1.0	99	70 - 130	P	04/18/2017	13:23	LB86956
	Cadmium	0.93	1.0	93	70 - 130	P	04/18/2017	13:23	LB86956

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LiRo Engineers, Inc. **SDG No.:** I2745

Contract: LIRO01 **Lab Code:** CHEM **Case No.:** I2745 **SAS No.:** I2745

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Arsenic	0.25	+/-1.0	J	0.5	1.0	P	04/18/2017	13:02	LB86956
	Cadmium	1.0	+/-1.0	U	0.5	1.0	P	04/18/2017	13:02	LB86956

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LiRo Engineers, Inc. **SDG No.:** I2745

Contract: LIRO01 **Lab Code:** CHEM **Case No.:** I2745 **SAS No.:** I2745

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB63	Arsenic	0.19	+/-1.0	J	0.5	1.0	P	04/18/2017	13:19	LB86956
	Cadmium	1.0	+/-1.0	U	0.5	1.0	P	04/18/2017	13:19	LB86956
CCB64	Arsenic	0.11	+/-1.0	J	0.5	1.0	P	04/18/2017	14:11	LB86956
	Cadmium	1.0	+/-1.0	U	0.5	1.0	P	04/18/2017	14:11	LB86956
CCB65	Arsenic	0.06	+/-1.0	J	0.5	1.0	P	04/18/2017	14:50	LB86956
	Cadmium	1.0	+/-1.0	U	0.5	1.0	P	04/18/2017	14:50	LB86956
CCB66	Arsenic	0.11	+/-1.0	J	0.5	1.0	P	04/18/2017	15:39	LB86956
	Cadmium	1.0	+/-1.0	U	0.5	1.0	P	04/18/2017	15:39	LB86956
CCB67	Arsenic	0.09	+/-1.0	J	0.5	1.0	P	04/18/2017	16:30	LB86956
	Cadmium	1.0	+/-1.0	U	0.5	1.0	P	04/18/2017	16:30	LB86956
CCB68	Arsenic	0.14	+/-1.0	J	0.5	1.0	P	04/18/2017	17:16	LB86956
	Cadmium	1.0	+/-1.0	U	0.5	1.0	P	04/18/2017	17:16	LB86956
CCB69	Arsenic	0.06	+/-1.0	J	0.5	1.0	P	04/18/2017	17:49	LB86956
	Cadmium	1.0	+/-1.0	U	0.5	1.0	P	04/18/2017	17:49	LB86956

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LiRo Engineers, Inc. **SDG No.:** I2745

Contract: LIRO01 **Lab Code:** CHEM **Case No.:** I2745 **SAS No.:** I2745

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number

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Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: LiRo Engineers, Inc. **SDG No.:** I2745

Instrument: P7

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	LOD ug/L	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB98296BL		**WATER**		**Batch Number:**		**PB98296**		**Prep Date:**	**04/18/2017**	
	Arsenic	0.11	<1.0	J	0.5	1.0	P	04/18/2017	15:07	LB86956
	Cadmium	1.0	<1.0	U	0.5	1.0	P	04/18/2017	15:07	LB86956

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Metals
- 4 -
INTERFERENCE CHECK SAMPLE

Client: LiRo Engineers, Inc. **SDG No.:** I2745

Contract: LIRO01 **Lab Code:** CHEM **Case No.:** I2745 **SAS No.:** I2745

ICS Source: EPA **Instrument ID:** P7

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSA01	Arsenic	0.42			-1.9	2.1	04/18/2017	13:06	LB86956
	Cadmium	0.63			-1.3	2.7	04/18/2017	13:06	LB86956
ICSAB01	Arsenic	19.8	19.0	104.2	15.2	22.8	04/18/2017	13:09	LB86956
	Cadmium	20	20.0	100	16	24	04/18/2017	13:09	LB86956

METAL QC DATA

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metals
- 5a -
MATRIX SPIKE SUMMARY

client: LiRo Engineers, Inc. **level:** low **sdg no.:** I2745

contract: LIRO01 **lab code:** CHEM **case no.:** I2745 **sas no.:** I2745

matrix: WATER **sample id:** I2700-10 **client id:** S8-0656MS

Percent Solids for Sample: NA **Spiked ID:** I2700-11 **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Arsenic	ug/L	84 - 116	756		272		500	97		P
Cadmium	ug/L	87 - 115	463		1.0	U	500	92.6		P

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metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LiRo Engineers, Inc. **level:** low **sdg no.:** I2745

contract: LIRO01 **lab code:** CHEM **case no.:** I2745 **sas no.:** I2745

matrix: WATER **sample id:** I2700-10 **client id:** S8-0656MSD

Percent Solids for Sample: NA **Spiked ID:** I2700-12 **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Arsenic	ug/L	84 - 116	810		272		500	108		P
Cadmium	ug/L	87 - 115	498		1.0	U	500	99.6		P

CHEMTECH

Metals
- 5b -

Client: LiRo Engineers, Inc. **SDG No.:** I2745

Contract: LIRO01 **Lab Code:** CHEM **Case No.:** I2745 **SAS No.:** I2745

Matrix: **Level:** LOW **Client ID:**

Sample ID: **Spiked ID:**

Analyte	Units	Acceptance Limit %R	C	Sample Result	C	Spike Added	% Recovery	Qual	M

Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LiRo Engineers, Inc. **Level:** LOW **SDG No.:** I2745

Contract: LIRO01 **Lab Code:** CHEM **Case No.:** I2745 **SAS No.:** I2745

Matrix: WATER **Sample ID:** I2700-10 **Client ID:** S8-0656DUP

Percent Solids for Sample: NA **Duplicate ID** I2700-10DUP **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Arsenic	ug/L	20	272		277		2		P
Cadmium	ug/L	20	1.0	U	1.0	U			P

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LiRo Engineers, Inc. **Level:** LOW **SDG No.:** I2745

Contract: LIRO01 **Lab Code:** CHEM **Case No.:** I2745 **SAS No.:** I2745

Matrix: WATER **Sample ID:** I2700-11 **Client ID:** S8-0656MSD

Percent Solids for Sample: NA **Duplicate ID** I2700-12 **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Arsenic	ug/L	20	756		810		7		P
Cadmium	ug/L	20	463		498		7		P

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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Metals

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LiRo Engineers, Inc. **SDG No.:** I2745

Contract: LIRO01 **Lab Code:** CHEM **Case No.:** I2745 **SAS No.:** I2745

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB98296BS							
Arsenic	ug/L	500	502		100.4	84 - 116	P
Cadmium	ug/L	500	512		102.4	87 - 115	P

Metals

-9 -

ICP SERIAL DILUTIONS

SAMPLE NO.

S8-0656L

Lab Name: Chemtech Consulting Group **Contract:** LIRO01

Lab Code: CHEM **Lb No.:** lb86956 **Lab Sample ID :** I2700-10L **SDG No.:** I2745

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

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Arsenic	272		261		4		P
Cadmium	1.0	U	5.0	U			P

METAL PREPARATION & INSTRUMENT DATA

Metals

- 10 -

Client: LiRo Engineers, Inc. **SDG No.:** I2745

Contract: LIRO01 **Lab Code:** CHEM **Case No.:** I2745 **SAS No.:** I2745

Instrument ID: P7 **Preparation Method:**

Analyte	Wave- length (nm)	MDL	LOD	PQL	Date:
LIQUID					
Method:	**6020**				
Arsenic	75	0.076	0.5	1	
Cadmium	111	0.059	0.5	1	

Metals

- 12 -
LINEAR RANGES

Client: LiRo Engineers, Inc. **SDG No.:** I2745

Contract: LIRO01 **Lab Code:** CHEM **Case No.:** I2745 **SAS No.:** I2745

Instrument ID: P7 **Date:** 01/24/2011

Analyte	Integration Time (sec)	LDR ug/L
Arsenic	0.001	10000
Cadmium	0.1	5000

METAL PREPARATION & ANALYICAL SUMMARY

Metals
- 13 -
SAMPLE PREPARATION SUMMARY

Client: LiRo Engineers, Inc. **SDG No.:** I2745

Contract: LIRO01 **Lab Code:** CHEM **Method:**

Case No.: I2745 **SAS No.:** I2745

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB98296**						
I2700-10DUP	S8-0656DUP	DUP	WATER	04/18/2017	50.0	50.0	
I2700-11	S8-0656MS	MS	WATER	04/18/2017	50.0	50.0	
I2700-12	S8-0656MSD	MSD	WATER	04/18/2017	50.0	50.0	
I2745-01	D1K1-GW-MW-01	SAM	WATER	04/18/2017	50.0	50.0	
I2745-02	D1K1-GW-MW-02	SAM	WATER	04/18/2017	50.0	50.0	
I2745-03	D1K1-GW-MW-10	SAM	WATER	04/18/2017	50.0	50.0	
PB98296BL	PB98296BL	MB	WATER	04/18/2017	50.0	50.0	
PB98296BS	PB98296BS	LCS	WATER	04/18/2017	50.0	50.0	

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metals
- 14 -
ANALYSIS RUN LOG

Client: LiRo Engineers, Inc. **Contract:** LIRO01

Lab code: CHEM **Case no.:** I2745 **Sas no.:** I2745 **Sdg no.:** I2745

Instrument id number: **Method:** **Run number:** LB86956

Start date: 04/18/2017 **End date:** 04/18/2017

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1223	As,Cd
S2	S2	1	1230	As,Cd
S3	S3	1	1234	As,Cd
S4	S4	1	1238	As,Cd
S5	S5	1	1242	As,Cd
S6	S6	1	1245	As,Cd
S7	S7	1	1249	As,Cd
S8	S8	1	1252	,
ICV01	ICV01	1	1256	As,Cd
ICB01	ICB01	1	1302	As,Cd
ICSA01	ICSA01	1	1306	As,Cd
ICSAB01	ICSAB01	1	1309	As,Cd
CCV63	CCV63	1	1312	As,Cd
CCB63	CCB63	1	1319	As,Cd
CRI	CRI	1	1323	As,Cd
CCV64	CCV64	1	1403	As,Cd
CCB64	CCB64	1	1411	As,Cd
CCV65	CCV65	1	1429	As,Cd
CCB65	CCB65	1	1450	As,Cd
PB98296BL	PB98296BL	1	1507	As,Cd
PB98296BS	PB98296BS	1	1511	As,Cd
CCV66	CCV66	1	1531	As,Cd
CCB66	CCB66	1	1539	As,Cd
I2700-10DUP	S8-0656DUP	1	1611	As,Cd
CCV67	CCV67	1	1618	As,Cd
CCB67	CCB67	1	1630	As,Cd
I2700-11	S8-0656MS	1	1637	As,Cd
I2700-12	S8-0656MSD	1	1644	As,Cd
I2700-10L	S8-0656L	5	1658	As,Cd
I2745-01	D1K1-GW-MW-01	1	1705	As,Cd
CCV68	CCV68	1	1708	As,Cd
CCB68	CCB68	1	1716	As,Cd
I2745-02	D1K1-GW-MW-02	1	1719	As,Cd
I2745-03	D1K1-GW-MW-10	1	1723	As,Cd
CCV69	CCV69	1	1737	As,Cd
CCB69	CCB69	1	1749	As,Cd

SHIPPING DOCUMENTS

CHEMTECH
CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 Fax (908) 789-8922
www.chemtech.net

CHEMTECH PROJECT NO.
QUOTE NO. I2745
COC Number 040688

CLIENT INFORMATION (REPORT TO BE SENT TO:)

COMPANY: LiRO Engineers
ADDRESS: 690 Delaware Ave.
CITY: Buffalo STATE: NY ZIP: 14209
ATTENTION: ~~Jon~~ Jon Williams
PHONE: 716-882-5476 FAX: —

CLIENT PROJECT INFORMATION

PROJECT NAME: Kingsley park
PROJECT NO.: LOCATION:
PROJECT MANAGER: Steve Frank
e-mail: williamsj@liro.com
PHONE: same FAX: —

CLIENT BILLING INFORMATION

BILL TO: PO#:
ADDRESS: SAME
CITY: STATE: ZIP:
ATTENTION: PHONE:

DATA TURNAROUND INFORMATION

FAX: 10 DAYS *
HARD COPY: 10 DAYS *
EDD: 10 DAYS *
PREAPPROVED TAT: ☐ YES ☐ NO
* STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

☐ LEVEL 1: Results only ☐ Others
☐ LEVEL 2: Results + QC
☐ LEVEL 3: Results (plus results raw data) + QC
☒ LEVEL 4: Results + QC (all raw data)
☒ EDD Format: NYSDEC-EQUIS

ANALYSIS

1	2	3	4	5	6	7	8	9
Total Arsenic	Cadmium							

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1 (E/B)	PRESERVATIVES 2 (2/B)	3	4	5	6	7	8	9	COMMENTS
1.	DIKI-GW-MW-01	GW		X	4/17/17	1145	1	X	X								
2.	DIKI-GW-MW-02	GW		X	"	1317	1	X	X								
3.	DIKI-GW-MW-10	GW		X	"	—	1	X	X								
4.																	
5.																	
6.																	
7.																	
8.																	
9.																	
10.																	

← Specify Preservatives
A – HCl B – HNO_3
C – H_2SO_4 D – NaOH
E – ICE F – Other

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1.	4/17/17 1600	1.
RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:
2.		2.
RELINQUISHED BY:	DATE/TIME: 7:00 4-18-17	RECEIVED FOR LAB BY:
3.		3.

Conditions of bottles or coolers at receipt: ☐ Compliant ☐ Non Compliant Cooler Temp. 4.2
MeOH extraction requires an additional 4 oz jar for percent solid.
Ice in Cooler?: yes
Comments: NYSDEC ASP-B Deliverables

Page 1 of 1

SHIPPED VIA: CLIENT: ☐ HAND DELIVERED ☒ OVERNIGHT CHEMTECH: ☐ PICKED UP ☐ OVERNIGHT
Shipment Complete: ☐ YES ☐ NO

Revision 8/2007

WHITE - CHEMTECH COPY FOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY

I2745



40 of 41

After printing this label:
1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.
Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com.FedEx will not be responsible for any claim in excess of $100 per package, whether the result of loss, damage, delay, non-delivery,misdelivery,or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim.Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental,consequential, or special is limited to the greater of $100 or the authorized declared value. Recovery cannot exceed actual documented loss.Maximum for items of extraordinary value is $1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our ServiceGuide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	EP-W-14-030
Connecticut	PH-0649
DOD ELAP (L-A-B)	L2219
Florida	E87935
Maine	2012025
Maryland	296
New Hampshire	255413
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	P330-13-00380
Texas	T104704488-13-5

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DATA PACKAGE

METALS

PROJECT NAME : KINGSLEY PARK

LIRO ENGINEERS, INC.

690 Delaware Ave.

Buffalo, NY - 14209

Phone No: 716-882-5476

ORDER ID : I2745

ATTENTION : Jon Williams

ACCREDITED IN ACCORDANCE WITH nelac

DoD ELAP

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Cover Page

Order ID : I2745

Project ID : Kingsley Park

Client : LiRo Engineers, Inc.

Lab Sample Number	Client Sample Number
I2745-01	D1K1-GW-MW-01
I2745-02	D1K1-GW-MW-02
I2745-03	D1K1-GW-MW-10

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

Signature : Mildred V Reyes

APPROVED

Date: 4/24/2017

By Mildred V Reyes, QAQC Supervisor at 10:52 am, Apr 24, 2017

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

CHEMTECH
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CASE NARRATIVE

LiRo Engineers, Inc.
Project Name: Kingsley Park
Project # N/A
Chemtech Project # I2745
Test Name: Metals Group4

A. Number of Samples and Date of Receipt:
3 Water samples were received on 04/18/2017.

B. Parameters:
According to the Chain of Custody document, the following analyses were requested: Metals Group4. This data package contains results for Metals Group4.

C. Analytical Techniques:
The analysis of Metals Group4 was based on method 6020 and digestion based on method 3010 (waters).

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Blank Spike met requirements for all samples.
The Duplicate analysis met criteria for all samples.
The Matrix Spike analysis met criteria for all samples.
The Matrix Spike Duplicate analysis met criteria for all samples.
The Blank analysis did not indicate the presence of lab contamination.
The Calibration met the requirements.
The Serial Dilution met the acceptable requirements.

E. Additional Comments:

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

Signature_Mildred V Reyes

APPROVED
By Mildred V Reyes, QAQC Supervisor at 10:52 am, Apr 24, 2017

DATA REPORTING QUALIFIERS- INORGANIC

For reporting results, the following " Results Qualifiers" are used:

J	Indicates the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL), but greater than or equal to the Instrument Detection Limit (IDL).
U	Indicates the analyte was analyzed for, but not detected.
ND	Indicates the analyte was analyzed for, but not detected
E	Indicates the reported value is estimated because of the presence of interference
M	Indicates Duplicate injection precision not met.
N	Indicates the spiked sample recovery is not within control limits.
S	Indicates the reported value was determined by the Method of Standard Addition (MSA).
*	Indicates that the duplicate analysis is not within control limits.
+	Indicates the correlation coefficient for the MSA is less than 0.995.
D	Indicates the reported value is from a secondary analysis with a dilution factor. The original analysis exceeded the calibration range.
M	Method qualifiers **"P"** for ICP instrument **"PM"** for ICP when Microwave Digestion is used **"CV"** for Manual Cold Vapor AA **"AV"** for automated Cold Vapor AA **"CA"** for MIDI-Distillation Spectrophotometric **"AS"** for Semi –Automated Spectrophotometric **"C"** for Manual Spectrophotometric **"T"** for Titrimetric **"NR"** for analyte not required to be analyzed
OR	Indicates the analyte's concentration exceeds the calibrated range of the instrument for that specific analysis.
Q	Indicates the LCS did not meet the control limits requirements
H	Sample Analysis Out Of Hold Time

QA Control # A3040961

CHEMTECH 284 Sheffield Street, Mountainside New Jersey 07092
NEW JERSEY LAB ID#: 20012: NEW YORK LAB ID#: 11376

METALS CONFORMANCE/NON-CONFORMANCE SUMMARY

CHEMTECH PROJECT NUMBER: I2745 MATRIX: Water

METHOD: 6020

		NA	NO	YES
1.	Calibration Summary met criteria.			✓
2.	ICP Interference Check Sample Results Summary Submitted.			✓
3.	Serial Dilution Summary (if applicable) Submitted.			✓
4.	Laboratory Control Sample Summary (if applicable) Submitted.			✓
5.	Blank Contamination - If yes, list compounds and concentrations in each blank:		✓	
6.	Matrix Spike/Matrix Spike Duplicate Recoveries Met Criteria If not met, list those compounds and their recoveries which fall outside the acceptable range.			✓
7.	Sample Duplicate Analysis Met QC Criteria If not met, list those compounds and their recoveries which fall outside the acceptable range.			✓
8.	Digestion Holding Time Met If not met, list number of days exceeded for each sample:			✓
9.	Analysis Holding Time Met If not met, list those compounds and their recoveries which fall outside the acceptable range.			✓

ADDITIONAL COMMENTS:

REVIEWED
QA REVIEW
By kalpana, Data Reviewer at 10:44 am, Apr 24, 2017

Date

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APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: I2745

	Completed
For thorough review, the report must have the following:	
GENERAL:	
Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)	✓
Check chain-of-custody for proper relinquish/return of samples	✓
Is the chain of custody signed and complete	✓
Check internal chain-of-custody for proper relinquish/return of samples /sample extracts	✓
Collect information for each project id from server. Were all requirements followed	✓
COVER PAGE:	
Do numbers of samples correspond to the number of samples in the Chain of Custody on login page	✓
Do lab numbers and client Ids on cover page agree with the Chain of Custody	✓
CHAIN OF CUSTODY:	
Do requested analyses on Chain of Custody agree with form I results	✓
Do requested analyses on Chain of Custody agree with the log-in page	✓
Were the correct method log-in for analysis according to the Analytical Request and Chain of Castody	✓
Were the samples received within hold time	✓
Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle	✓
ANALYTICAL:	
Was method requirement followed?	✓
Was client requirement followed?	✓
Does the case narrative summarize all QC failure?	✓
All runlogs and manual integration are reviewed for requirements	✓
All manual calculations and /or hand notations verified	✓

1st Level QA Review Signature: MOHINI SONI **Date:** 04/24/2017

2nd Level QA Review Signature: REVIEWED By kalpana, Data Reviewer at 10:44 am, Apr 24, 2017 **Date:**

CHEMTECH

284 Sheffield Street, Mountainside, New Jersey - 07092

Phone: (908) 789 8900 Fax: (908) 789 8922

LAB CHRONICLE

OrderID:	I2745	**OrderDate:**	4/18/2017 10:12:28 AM
Client:	LiRo Engineers, Inc.	**Project:**	Kingsley Park
Contact:	Jon Williams	**Location:**	P61

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
I2745-01	**D1K1-GW-MW-01**	**WATER**			**04/17/17**			**04/18/17**
			Metals Group4	6020		04/18/17	04/18/17	
I2745-02	**D1K1-GW-MW-02**	**WATER**			**04/17/17**			**04/18/17**
			Metals Group4	6020		04/18/17	04/18/17	
I2745-03	**D1K1-GW-MW-10**	**WATER**			**04/17/17**			**04/18/17**
			Metals Group4	6020		04/18/17	04/18/17	

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Hit Summary Sheet
SW-846

SDG No.: I2745 **Order ID:** I2745

Client: LiRo Engineers, Inc. **Project ID:** Kingsley Park

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID : D1K1-GW-MW-01									
I2745-01	D1K1-GW-MW-01	WATER	Arsenic	79.800		0.076	0.5	1	ug/L
I2745-01	D1K1-GW-MW-01	WATER	Cadmium	3.990		0.059	0.5	1	ug/L
Client ID : D1K1-GW-MW-02									
I2745-02	D1K1-GW-MW-02	WATER	Arsenic	575.000		0.076	0.5	1	ug/L
I2745-02	D1K1-GW-MW-02	WATER	Cadmium	0.750	J	0.059	0.5	1	ug/L
Client ID : D1K1-GW-MW-10									
I2745-03	D1K1-GW-MW-10	WATER	Arsenic	79.400		0.076	0.5	1	ug/L
I2745-03	D1K1-GW-MW-10	WATER	Cadmium	1.670		0.059	0.5	1	ug/L

SAMPLE DATA

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Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	04/17/17
Project:	Kingsley Park	Date Received:	04/18/17
Client Sample ID:	D1K1-GW-MW-01	SDG No.:	I2745
Lab Sample ID:	I2745-01	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7440-38-2	Arsenic	79.8		1	0.076	0.5	1	ug/L	04/18/17 12:00	04/18/17 17:05	SW6020
7440-43-9	Cadmium	3.99		1	0.059	0.5	1	ug/L	04/18/17 12:00	04/18/17 17:05	SW6020

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	Metals Group4				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	04/17/17
Project:	Kingsley Park	Date Received:	04/18/17
Client Sample ID:	D1K1-GW-MW-02	SDG No.:	I2745
Lab Sample ID:	I2745-02	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7440-38-2	Arsenic	575		1	0.076	0.5	1	ug/L	04/18/17 12:00	04/18/17 17:19	SW6020
7440-43-9	Cadmium	0.75	J	1	0.059	0.5	1	ug/L	04/18/17 12:00	04/18/17 17:19	SW6020

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	Metals Group4				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	04/17/17
Project:	Kingsley Park	Date Received:	04/18/17
Client Sample ID:	D1K1-GW-MW-10	SDG No.:	I2745
Lab Sample ID:	I2745-03	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7440-38-2	Arsenic	79.4		1	0.076	0.5	1	ug/L	04/18/17 12:00	04/18/17 17:23	SW6020
7440-43-9	Cadmium	1.67		1	0.059	0.5	1	ug/L	04/18/17 12:00	04/18/17 17:23	SW6020

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	Metals Group4				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

METAL CALIBRATION DATA

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LiRo Engineers, Inc. **SDG No.:** I2745

Contract: LIRO01 **Lab Code:** CHEM **Case No.:** I2745 **SAS No.:** I2745

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV01	Arsenic	196.87	200	98.4	90 - 110	P	04/18/2017	12:56	LB86956
	Cadmium	103.35	99.0	104.4	90 - 110	P	04/18/2017	12:56	LB86956

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LiRo Engineers, Inc. **SDG No.:** I2745

Contract: LIRO01 **Lab Code:** CHEM **Case No.:** I2745 **SAS No.:** I2745

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV63	Arsenic	496.43	500	99.3	90 - 110	P	04/18/2017	13:12	LB86956
	Cadmium	507.96	500	101.6	90 - 110	P	04/18/2017	13:12	LB86956
CCV64	Arsenic	495.57	500	99.1	90 - 110	P	04/18/2017	14:03	LB86956
	Cadmium	499.24	500	99.8	90 - 110	P	04/18/2017	14:03	LB86956
CCV65	Arsenic	501.68	500	100.3	90 - 110	P	04/18/2017	14:29	LB86956
	Cadmium	510.19	500	102	90 - 110	P	04/18/2017	14:29	LB86956
CCV66	Arsenic	506.45	500	101.3	90 - 110	P	04/18/2017	15:31	LB86956
	Cadmium	501.03	500	100.2	90 - 110	P	04/18/2017	15:31	LB86956
CCV67	Arsenic	504.52	500	100.9	90 - 110	P	04/18/2017	16:18	LB86956
	Cadmium	505.13	500	101	90 - 110	P	04/18/2017	16:18	LB86956
CCV68	Arsenic	502.25	500	100.5	90 - 110	P	04/18/2017	17:08	LB86956
	Cadmium	501.63	500	100.3	90 - 110	P	04/18/2017	17:08	LB86956
CCV69	Arsenic	504.04	500	100.8	90 - 110	P	04/18/2017	17:37	LB86956
	Cadmium	501.73	500	100.3	90 - 110	P	04/18/2017	17:37	LB86956

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Metals

- 2b -

CRDL STANDARD FOR AA & ICP

Client: LiRo Engineers, Inc. **SDG No.:** I2745

Contract: LIRO01 **Lab Code:** CHEM **Case No.:** I2745 **SAS No.:** I2745

Initial Calibration Source:

Continuing Calibration Source:

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CRI	Arsenic	0.99	1.0	99	70 - 130	P	04/18/2017	13:23	LB86956
	Cadmium	0.93	1.0	93	70 - 130	P	04/18/2017	13:23	LB86956

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LiRo Engineers, Inc. **SDG No.:** I2745

Contract: LIRO01 **Lab Code:** CHEM **Case No.:** I2745 **SAS No.:** I2745

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Arsenic	0.25	+/-1.0	J	0.5	1.0	P	04/18/2017	13:02	LB86956
	Cadmium	1.0	+/-1.0	U	0.5	1.0	P	04/18/2017	13:02	LB86956

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LiRo Engineers, Inc. **SDG No.:** I2745

Contract: LIRO01 **Lab Code:** CHEM **Case No.:** I2745 **SAS No.:** I2745

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB63	Arsenic	0.19	+/-1.0	J	0.5	1.0	P	04/18/2017	13:19	LB86956
	Cadmium	1.0	+/-1.0	U	0.5	1.0	P	04/18/2017	13:19	LB86956
CCB64	Arsenic	0.11	+/-1.0	J	0.5	1.0	P	04/18/2017	14:11	LB86956
	Cadmium	1.0	+/-1.0	U	0.5	1.0	P	04/18/2017	14:11	LB86956
CCB65	Arsenic	0.06	+/-1.0	J	0.5	1.0	P	04/18/2017	14:50	LB86956
	Cadmium	1.0	+/-1.0	U	0.5	1.0	P	04/18/2017	14:50	LB86956
CCB66	Arsenic	0.11	+/-1.0	J	0.5	1.0	P	04/18/2017	15:39	LB86956
	Cadmium	1.0	+/-1.0	U	0.5	1.0	P	04/18/2017	15:39	LB86956
CCB67	Arsenic	0.09	+/-1.0	J	0.5	1.0	P	04/18/2017	16:30	LB86956
	Cadmium	1.0	+/-1.0	U	0.5	1.0	P	04/18/2017	16:30	LB86956
CCB68	Arsenic	0.14	+/-1.0	J	0.5	1.0	P	04/18/2017	17:16	LB86956
	Cadmium	1.0	+/-1.0	U	0.5	1.0	P	04/18/2017	17:16	LB86956
CCB69	Arsenic	0.06	+/-1.0	J	0.5	1.0	P	04/18/2017	17:49	LB86956
	Cadmium	1.0	+/-1.0	U	0.5	1.0	P	04/18/2017	17:49	LB86956

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LiRo Engineers, Inc. **SDG No.:** I2745

Contract: LIRO01 **Lab Code:** CHEM **Case No.:** I2745 **SAS No.:** I2745

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number

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Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: LiRo Engineers, Inc. **SDG No.:** I2745

Instrument: P7

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	LOD ug/L	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB98296BL		**WATER**		**Batch Number:**		**PB98296**		**Prep Date:**	**04/18/2017**	
	Arsenic	0.11	<1.0	J	0.5	1.0	P	04/18/2017	15:07	LB86956
	Cadmium	1.0	<1.0	U	0.5	1.0	P	04/18/2017	15:07	LB86956

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Metals
- 4 -
INTERFERENCE CHECK SAMPLE

Client: LiRo Engineers, Inc. **SDG No.:** I2745

Contract: LIRO01 **Lab Code:** CHEM **Case No.:** I2745 **SAS No.:** I2745

ICS Source: EPA **Instrument ID:** P7

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSA01	Arsenic	0.42			-1.9	2.1	04/18/2017	13:06	LB86956
	Cadmium	0.63			-1.3	2.7	04/18/2017	13:06	LB86956
ICSAB01	Arsenic	19.8	19.0	104.2	15.2	22.8	04/18/2017	13:09	LB86956
	Cadmium	20	20.0	100	16	24	04/18/2017	13:09	LB86956

METAL QC DATA

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metals
- 5a -
MATRIX SPIKE SUMMARY

client: LiRo Engineers, Inc. **level:** low **sdg no.:** I2745

contract: LIRO01 **lab code:** CHEM **case no.:** I2745 **sas no.:** I2745

matrix: WATER **sample id:** I2700-10 **client id:** S8-0656MS

Percent Solids for Sample: NA **Spiked ID:** I2700-11 **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Arsenic	ug/L	84 - 116	756		272		500	97		P
Cadmium	ug/L	87 - 115	463		1.0	U	500	92.6		P

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metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LiRo Engineers, Inc. **level:** low **sdg no.:** I2745

contract: LIRO01 **lab code:** CHEM **case no.:** I2745 **sas no.:** I2745

matrix: WATER **sample id:** I2700-10 **client id:** S8-0656MSD

Percent Solids for Sample: NA **Spiked ID:** I2700-12 **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Arsenic	ug/L	84 - 116	810		272		500	108		P
Cadmium	ug/L	87 - 115	498		1.0	U	500	99.6		P

CHEMTECH

Metals
- 5b -

Client: LiRo Engineers, Inc. **SDG No.:** I2745

Contract: LIRO01 **Lab Code:** CHEM **Case No.:** I2745 **SAS No.:** I2745

Matrix: **Level:** LOW **Client ID:**

Sample ID: **Spiked ID:**

Analyte	Units	Acceptance Limit %R	C	Sample Result	C	Spike Added	% Recovery	Qual	M

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: LiRo Engineers, Inc. **Level:** LOW **SDG No.:** I2745

Contract: LIRO01 **Lab Code:** CHEM **Case No.:** I2745 **SAS No.:** I2745

Matrix: WATER **Sample ID:** I2700-10 **Client ID:** S8-0656DUP

Percent Solids for Sample: NA **Duplicate ID** I2700-10DUP **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Arsenic	ug/L	20	272		277		2		P
Cadmium	ug/L	20	1.0	U	1.0	U			P

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: LiRo Engineers, Inc. **Level:** LOW **SDG No.:** I2745

Contract: LIRO01 **Lab Code:** CHEM **Case No.:** I2745 **SAS No.:** I2745

Matrix: WATER **Sample ID:** I2700-11 **Client ID:** S8-0656MSD

Percent Solids for Sample: NA **Duplicate ID** I2700-12 **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Arsenic	ug/L	20	756		810		7		P
Cadmium	ug/L	20	463		498		7		P

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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Metals

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LABORATORY CONTROL SAMPLE SUMMARY

Client: LiRo Engineers, Inc. **SDG No.:** I2745

Contract: LIRO01 **Lab Code:** CHEM **Case No.:** I2745 **SAS No.:** I2745

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB98296BS							
Arsenic	ug/L	500	502		100.4	84 - 116	P
Cadmium	ug/L	500	512		102.4	87 - 115	P

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Metals

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ICP SERIAL DILUTIONS

SAMPLE NO.
S8-0656L

Lab Name: Chemtech Consulting Group **Contract:** LIRO01

Lab Code: CHEM **Lb No.:** lb86956 **Lab Sample ID :** I2700-10L **SDG No.:** I2745

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

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Arsenic	272		261		4		P
Cadmium	1.0	U	5.0	U			P

METAL PREPARATION & INSTRUMENT DATA

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Metals

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Client: LiRo Engineers, Inc. **SDG No.:** I2745

Contract: LIRO01 **Lab Code:** CHEM **Case No.:** I2745 **SAS No.:** I2745

Instrument ID: P7 **Preparation Method:**

Analyte	Wave- length (nm)	MDL	LOD	PQL	Date:
LIQUID					
Method:	**6020**				
Arsenic	75	0.076	0.5	1	
Cadmium	111	0.059	0.5	1	

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Metals

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LINEAR RANGES

Client: LiRo Engineers, Inc. **SDG No.:** I2745

Contract: LIRO01 **Lab Code:** CHEM **Case No.:** I2745 **SAS No.:** I2745

Instrument ID: P7 **Date:** 01/24/2011

Analyte	Integration Time (sec)	LDR ug/L
Arsenic	0.001	10000
Cadmium	0.1	5000

METAL PREPARATION & ANALYICAL SUMMARY

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Metals
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SAMPLE PREPARATION SUMMARY

Client: LiRo Engineers, Inc. **SDG No.:** I2745

Contract: LIRO01 **Lab Code:** CHEM **Method:**

Case No.: I2745 **SAS No.:** I2745

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB98296**						
I2700-10DUP	S8-0656DUP	DUP	WATER	04/18/2017	50.0	50.0	
I2700-11	S8-0656MS	MS	WATER	04/18/2017	50.0	50.0	
I2700-12	S8-0656MSD	MSD	WATER	04/18/2017	50.0	50.0	
I2745-01	D1K1-GW-MW-01	SAM	WATER	04/18/2017	50.0	50.0	
I2745-02	D1K1-GW-MW-02	SAM	WATER	04/18/2017	50.0	50.0	
I2745-03	D1K1-GW-MW-10	SAM	WATER	04/18/2017	50.0	50.0	
PB98296BL	PB98296BL	MB	WATER	04/18/2017	50.0	50.0	
PB98296BS	PB98296BS	LCS	WATER	04/18/2017	50.0	50.0	

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ANALYSIS RUN LOG

Client: LiRo Engineers, Inc. **Contract:** LIRO01

Lab code: CHEM **Case no.:** I2745 **Sas no.:** I2745 **Sdg no.:** I2745

Instrument id number: **Method:** **Run number:** LB86956

Start date: 04/18/2017 **End date:** 04/18/2017

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1223	As,Cd
S2	S2	1	1230	As,Cd
S3	S3	1	1234	As,Cd
S4	S4	1	1238	As,Cd
S5	S5	1	1242	As,Cd
S6	S6	1	1245	As,Cd
S7	S7	1	1249	As,Cd
S8	S8	1	1252	,
ICV01	ICV01	1	1256	As,Cd
ICB01	ICB01	1	1302	As,Cd
ICSA01	ICSA01	1	1306	As,Cd
ICSAB01	ICSAB01	1	1309	As,Cd
CCV63	CCV63	1	1312	As,Cd
CCB63	CCB63	1	1319	As,Cd
CRI	CRI	1	1323	As,Cd
CCV64	CCV64	1	1403	As,Cd
CCB64	CCB64	1	1411	As,Cd
CCV65	CCV65	1	1429	As,Cd
CCB65	CCB65	1	1450	As,Cd
PB98296BL	PB98296BL	1	1507	As,Cd
PB98296BS	PB98296BS	1	1511	As,Cd
CCV66	CCV66	1	1531	As,Cd
CCB66	CCB66	1	1539	As,Cd
I2700-10DUP	S8-0656DUP	1	1611	As,Cd
CCV67	CCV67	1	1618	As,Cd
CCB67	CCB67	1	1630	As,Cd
I2700-11	S8-0656MS	1	1637	As,Cd
I2700-12	S8-0656MSD	1	1644	As,Cd
I2700-10L	S8-0656L	5	1658	As,Cd
I2745-01	D1K1-GW-MW-01	1	1705	As,Cd
CCV68	CCV68	1	1708	As,Cd
CCB68	CCB68	1	1716	As,Cd
I2745-02	D1K1-GW-MW-02	1	1719	As,Cd
I2745-03	D1K1-GW-MW-10	1	1723	As,Cd
CCV69	CCV69	1	1737	As,Cd
CCB69	CCB69	1	1749	As,Cd

METAL
RAW DATA

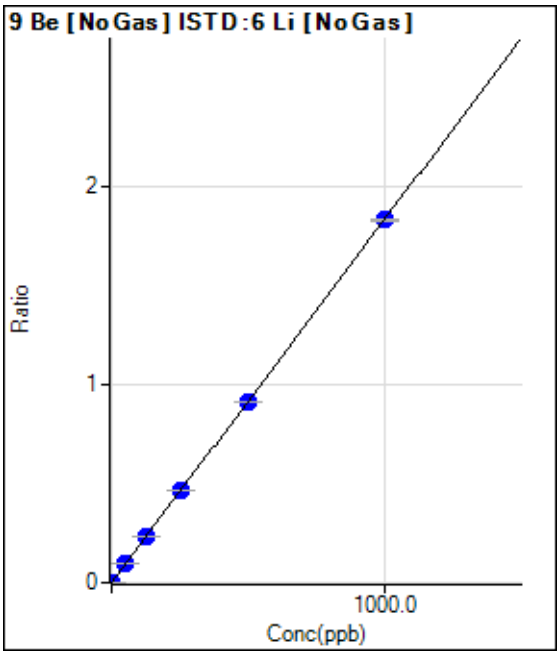
Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

Calibration for 008CALS.d

Batch Folder: D:\ICP-MS Data\P7041817.b\
Analysis File: P7041817.batch.bin
DA Date-Time: 2017-04-18 17:53:04
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	003CALB.d	S00	2017-04-18 12:23:08
2	004CALS.d	S01	2017-04-18 12:26:55
3	005CALS.d	S02	2017-04-18 12:30:43
4	006CALS.d	S03	2017-04-18 12:34:31
5	007CALS.d	S04	2017-04-18 12:38:36
6	008CALS.d	S05	2017-04-18 12:42:16
7	009CALS.d	S06	2017-04-18 12:45:53
8	010CALS.d	S07	2017-04-18 12:49:24
9	011CALS.d	S08	2017-04-18 12:52:51

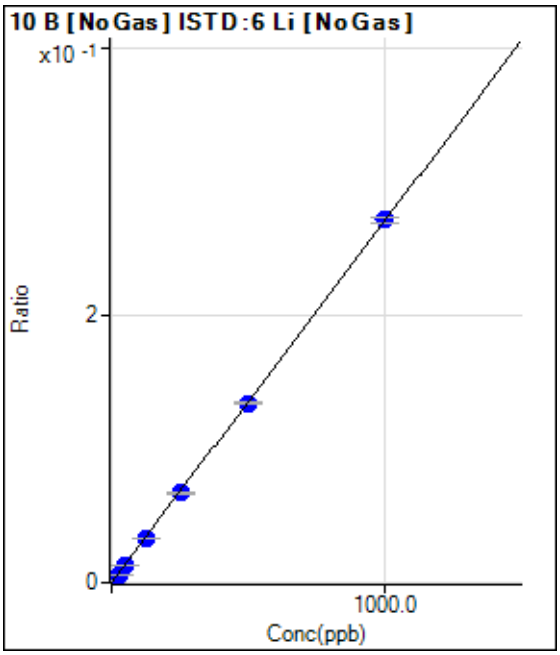
Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	70.37	0.0000	P	20.0
2	☐	0.100	0.077	305.57	0.0002	P	18.6
3	☐	1.000	0.893	2776.26	0.0017	P	4.0
4	☐	50.000	50.691	151248.28	0.0928	P	0.6
5	☐	125.000	125.528	375989.27	0.2297	P	0.5
6	☐	250.000	253.821	748101.73	0.4644	P	0.3
7	☐	500.000	499.280	1451041.47	0.9134	P	0.5
8	☐	1000.000	999.304	2855576.54	1.8281	P	0.4
9	☐			472.24	0.0003	P	5.6

y = 0.0018 * x + 4.1813E-005
R = 1.0000
DL = 0.01371
BEC = 0.02286

Weight: <None>
Min Conc: 0

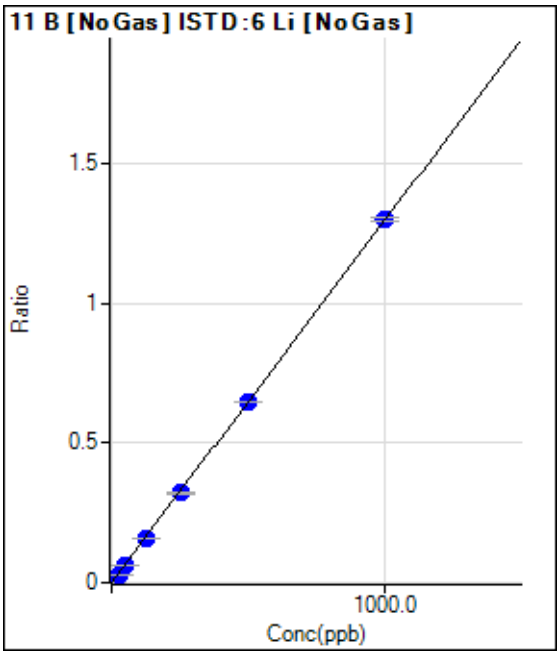


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	291.68	0.0002	P	18.6
2	☐	2.500	2.180	1272.33	0.0008	P	0.3
3	☐	25.000	20.776	9597.90	0.0058	P	3.9
4	☐	50.000	49.028	21888.84	0.0134	P	2.3
5	☐	125.000	120.777	53732.82	0.0328	P	2.2
6	☐	250.000	247.014	107858.66	0.0669	P	1.1
7	☐	500.000	495.305	212994.49	0.1341	P	0.9
8	☐	1000.000	1003.777	424144.75	0.2715	P	1.3
9	☐			11752.27	0.0081	P	8.8

y = 2.7033E-004 * x + 1.7323E-004
R = 1.0000
DL = 0.357
BEC = 0.6408

Weight: <None>
Min Conc: 0

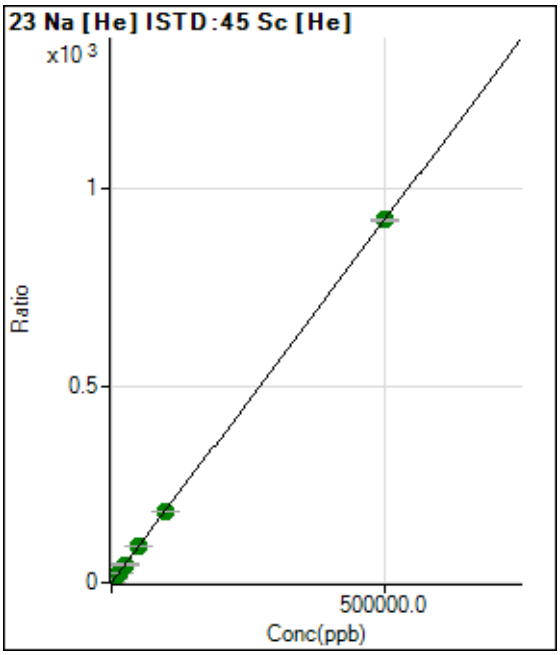
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1277.88	0.0008	P	13.7
2	☐	2.500	1.954	5484.56	0.0033	P	0.8
3	☐	25.000	21.409	47180.17	0.0285	P	2.5
4	☐	50.000	48.995	104580.02	0.0642	P	1.3
5	☐	125.000	122.733	261178.44	0.1596	P	1.1
6	☐	250.000	247.709	517557.53	0.3213	P	1.1
7	☐	500.000	497.789	1024374.73	0.6448	P	0.2
8	☐	1000.000	1002.103	2026488.87	1.2973	P	1.0
9	☐			56286.39	0.0389	P	7.4

y = 0.0013 * x + 7.5890E-004
R = 1.0000
DL = 0.2416
BEC = 0.5865

Weight: <None>
Min Conc: 0

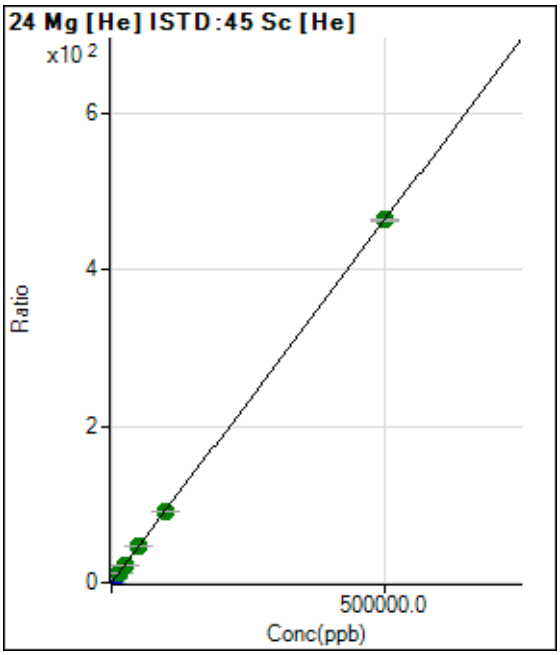


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	31628.73	0.0703	P	0.9
2	☐	50.000	44.568	68571.16	0.1524	P	1.0
3	☐	500.000	452.052	404327.71	0.9030	P	0.4
4	☐	5000.000	5053.298	4170161.12	9.3790	A	0.6
5	☐	12500.000	12593.804	10434153.44	23.2693	A	0.3
6	☐	25000.000	25112.746	20342343.16	46.3304	A	1.0
7	☐	50000.000	49758.493	40006191.52	91.7302	A	0.5
8	☐	100000.00	99063.225	79444884.41	182.5542	A	0.3
9	☐	500000.00	500203.03	408455423.02	921.4917	A	0.7

y = 0.0018 * x + 0.0703
R = 1.0000
DL = 1.077
BEC = 38.17

Weight: <None>
Min Conc: 0

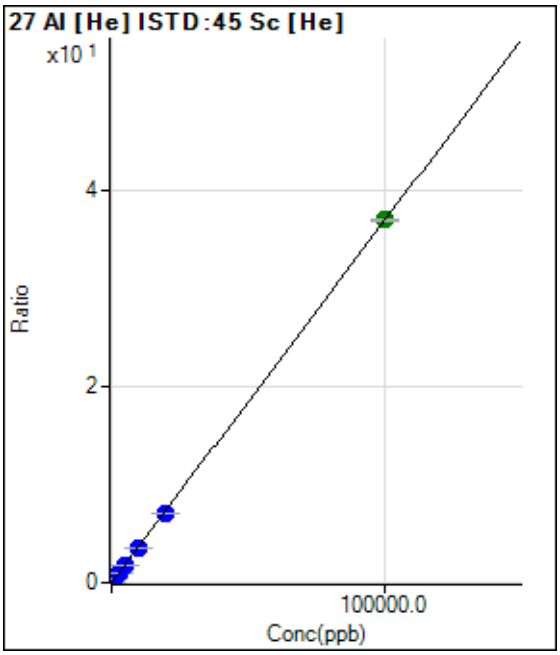
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	211.12	0.0005	P	23.1
2	☐	50.000	45.086	19032.25	0.0423	P	1.4
3	☐	500.000	454.566	189044.30	0.4222	P	0.2
4	☐	5000.000	5056.202	2086023.81	4.6916	P	0.8
5	☐	12500.000	12544.272	5218951.16	11.6390	A	0.6
6	☐	25000.000	24874.291	10133087.73	23.0787	A	1.4
7	☐	50000.000	49442.331	20006387.78	45.8727	A	0.1
8	☐	100000.00	97991.734	39565585.26	90.9165	A	0.3
9	☐	500000.00	500462.08	205818082.38	464.3258	A	0.4

y = 9.2779E-004 * x + 4.6945E-004
R = 1.0000
DL = 0.35
BEC = 0.506

Weight: <None>
Min Conc: 0

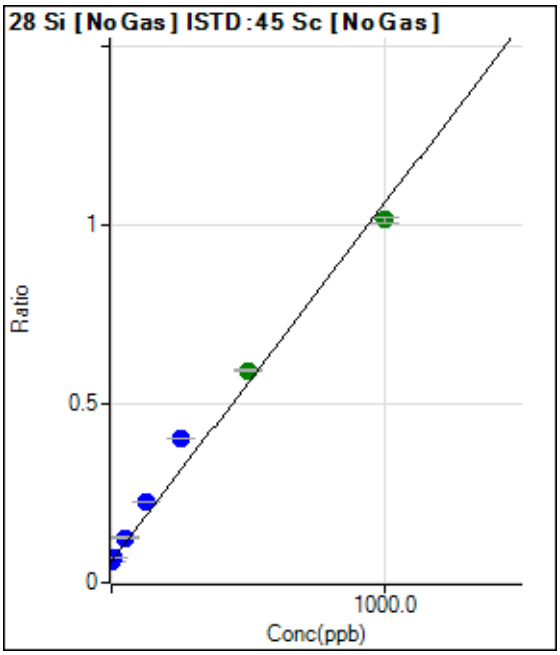


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	52.78	0.0001	P	63.3
2	☐	2.000	1.877	363.91	0.0008	P	16.6
3	☐	20.000	19.698	3303.28	0.0074	P	6.7
4	☐	1000.000	958.244	157094.50	0.3533	P	0.9
5	☐	2500.000	2427.201	401218.99	0.8948	P	0.4
6	☐	5000.000	4797.203	776398.83	1.7683	P	1.3
7	☐	10000.000	9542.766	1534063.98	3.5175	P	0.6
8	☐	20000.000	18971.759	3043191.75	6.9929	P	0.1
9	☐	100000.00	100263.74	16381902.62	36.9561	A	0.8

y = 3.6859E-004 * x + 1.1707E-004
R = 0.9999
DL = 0.6029
BEC = 0.3176

Weight: <None>
Min Conc: 0

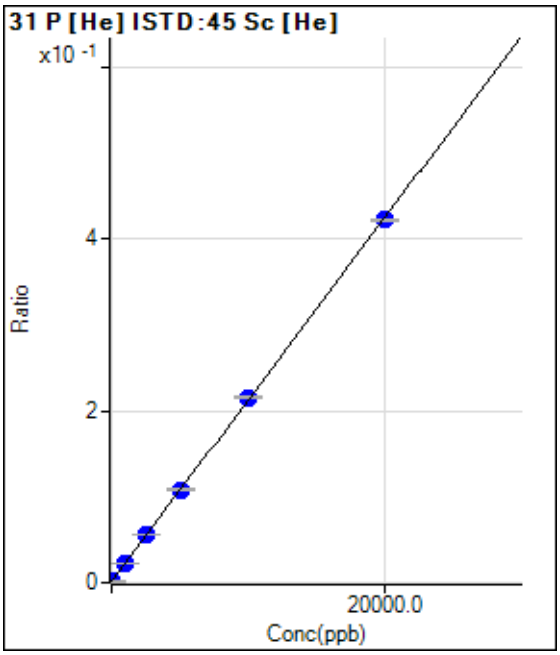
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	558282.02	0.0593	P	0.2
2	☐	1.000	1.094	566299.22	0.0604	P	0.9
3	☐	10.000	10.468	654476.79	0.0698	P	0.8
4	☐	50.000	66.780	1164588.92	0.1261	P	1.3
5	☐	125.000	165.803	2097149.12	0.2251	P	0.6
6	☐	250.000	343.130	3701235.54	0.4025	P	0.7
7	☐	500.000	532.647	5326925.34	0.5921	A	1.1
8	☐	1000.000	954.450	9202739.53	1.0140	A	1.7
9	☐			751650.23	0.0856	P	2.8

y = 0.0010 * x + 0.0593
R = 0.9937
DL = 0.3155
BEC = 59.28

Weight: <None>
Min Conc: 0

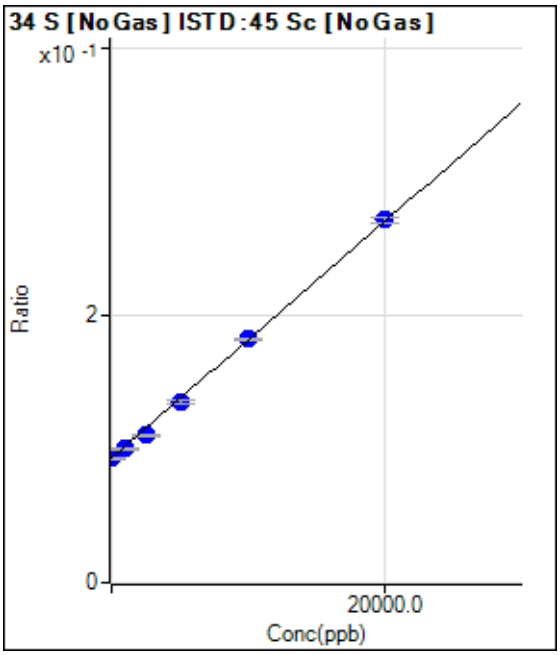


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	-3.267	505.59	0.0011	P	17.3
2	☐	0.000	9.237	625.04	0.0014	P	10.4
3	☐	0.000	-5.971	477.80	0.0011	P	13.4
4	☐	1000.000	1004.131	9984.26	0.0225	P	3.1
5	☐	2500.000	2560.136	24843.80	0.0554	P	1.0
6	☐	5000.000	5067.682	47644.00	0.1085	P	0.9
7	☐	10000.000	10149.763	94250.16	0.2161	P	1.3
8	☐	20000.000	19900.474	183894.50	0.4226	P	0.9
9	☐			813.95	0.0018	P	2.0

y = 2.1174E-005 * x + 0.0012
R = 1.0000
DL = 22.78
BEC = 56.36

Weight: <None>
Min Conc: 0

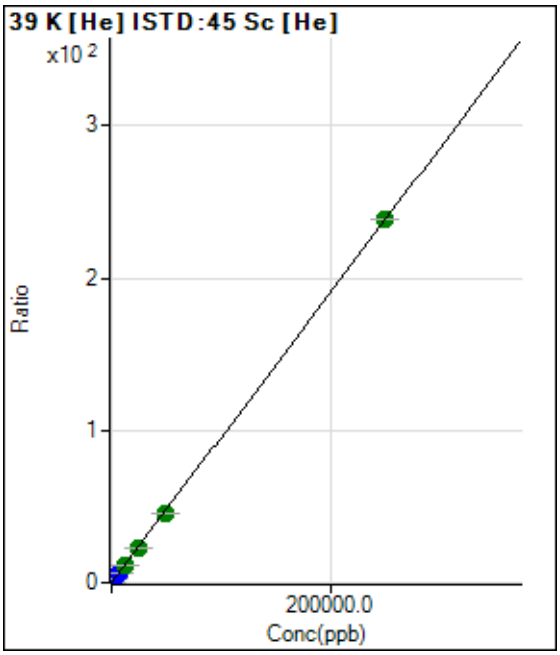
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	21.051	882133.17	0.0937	P	0.8
2	☐	0.000	56.887	881533.42	0.0940	P	1.1
3	☐	0.000	-77.938	870734.44	0.0928	P	0.7
4	☐	1000.000	748.830	924774.62	0.1001	P	0.9
5	☐	2500.000	1889.637	1026594.92	0.1102	P	0.7
6	☐	5000.000	4737.727	1244759.62	0.1354	P	2.0
7	☐	10000.000	10067.159	1642166.68	0.1825	P	0.8
8	☐	20000.000	20120.843	2463409.58	0.2714	P	1.6
9	☐			776644.54	0.0884	P	0.8

y = 8.8430E-006 * x + 0.0935
R = 0.9995
DL = 269.5
BEC = 1.057E+04

Weight: <None>
Min Conc: 0

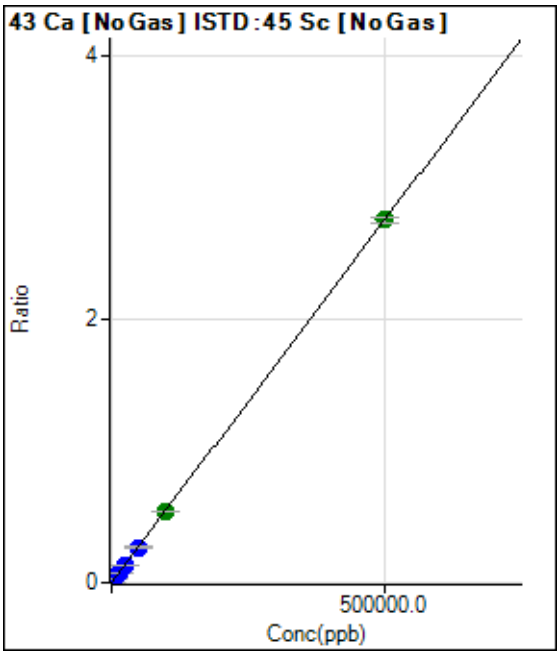


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	57423.26	0.1276	P	1.9
2	☐	50.000	46.462	77279.10	0.1718	P	0.9
3	☐	500.000	435.942	242498.11	0.5416	P	0.7
4	☐	2500.000	2415.223	1076476.99	2.4211	P	0.6
5	☐	6250.000	6040.025	2629029.31	5.8631	P	0.6
6	☐	12500.000	11986.671	5053996.95	11.5098	A	0.1
7	☐	25000.000	24097.611	10035299.70	23.0100	A	0.3
8	☐	50000.000	47619.003	19733680.30	45.3452	A	0.4
9	☐	250000.00	250598.33	105540603.05	238.0881	A	0.2

y = 9.4957E-004 * x + 0.1276
R = 0.9999
DL = 7.537
BEC = 134.4

Weight: <None>
Min Conc: 0

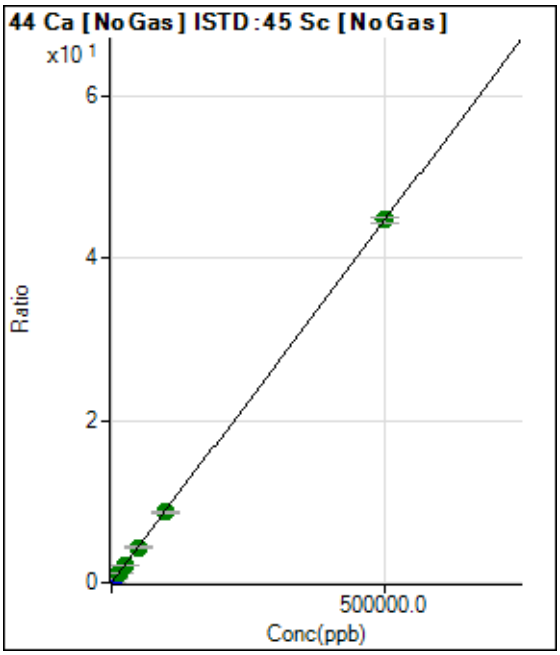
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	561.15	0.0001	P	16.7
2	☐	50.000	44.667	2864.31	0.0003	P	6.7
3	☐	500.000	434.834	23001.92	0.0025	P	1.1
4	☐	5000.000	4900.161	249561.61	0.0270	P	0.4
5	☐	12500.000	12077.457	619456.79	0.0665	P	1.7
6	☐	25000.000	24429.809	1236260.36	0.1345	P	1.6
7	☐	50000.000	48855.505	2418774.62	0.2689	P	1.1
8	☐	100000.00	98328.641	4910181.19	0.5410	A	1.7
9	☐	500000.00	500488.85	24187605.92	2.7537	A	1.5

y = 5.5018E-006 * x + 5.9607E-005
R = 1.0000
DL = 5.419
BEC = 10.83

Weight: <None>
Min Conc: 0

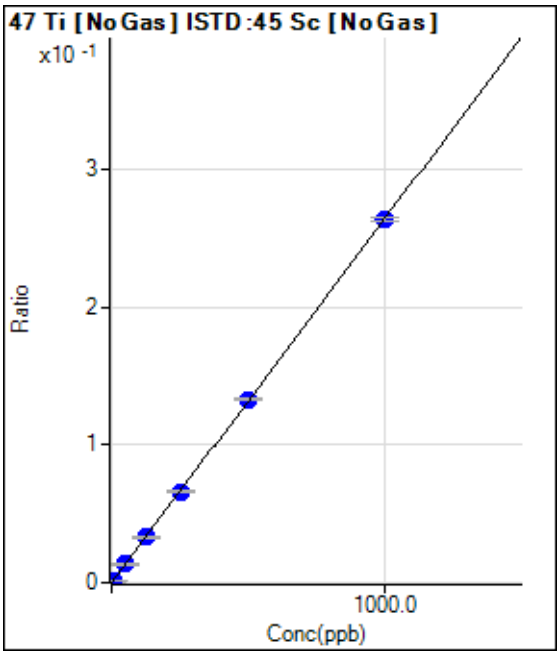


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	33327.47	0.0035	P	0.5
2	☐	50.000	41.880	68308.92	0.0073	P	0.6
3	☐	500.000	427.717	391962.48	0.0418	P	0.2
4	☐	5000.000	4914.020	4090691.45	0.4429	P	0.6
5	☐	12500.000	12069.451	10084458.38	1.0827	A	1.1
6	☐	25000.000	24240.732	19958950.27	2.1709	A	1.4
7	☐	50000.000	48807.100	39290523.45	4.3673	A	1.6
8	☐	100000.00	97031.487	78767069.82	8.6790	A	1.4
9	☐	500000.00	500762.65	393318950.46	44.7762	A	1.3

y = 8.9409E-005 * x + 0.0035
R = 1.0000
DL = 0.6253
BEC = 39.59

Weight: <None>
Min Conc: 0

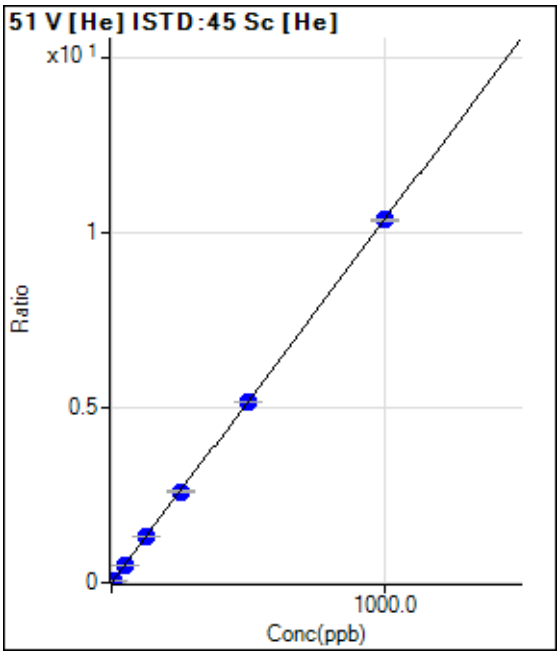
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	238.90	0.0000	P	23.6
2	☐	0.500	0.435	1314.01	0.0001	P	2.4
3	☐	5.000	4.334	10962.87	0.0012	P	4.4
4	☐	50.000	50.198	122525.61	0.0133	P	0.6
5	☐	125.000	124.408	305880.91	0.0328	P	0.6
6	☐	250.000	250.831	608512.70	0.0662	P	1.2
7	☐	500.000	503.818	1195788.77	0.1329	P	0.7
8	☐	1000.000	997.951	2389177.68	0.2632	P	1.2
9	☐			12252.00	0.0014	P	86.6

y = 2.6376E-004 * x + 2.5369E-005
R = 1.0000
DL = 0.06816
BEC = 0.09618

Weight: <None>
Min Conc: 0

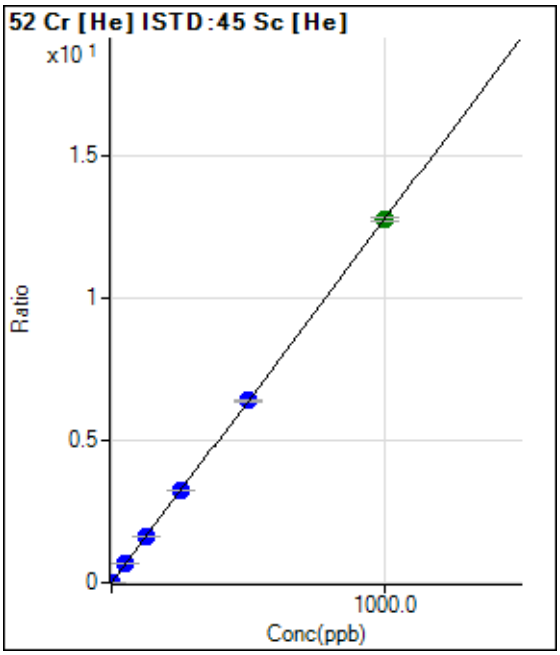


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	37.78	0.0001	P	13.9
2	☐	0.500	0.462	2190.20	0.0049	P	6.8
3	☐	5.000	4.358	20244.05	0.0452	P	1.3
4	☐	50.000	50.137	230887.52	0.5193	P	0.1
5	☐	125.000	124.748	579303.53	1.2919	P	0.2
6	☐	250.000	251.417	1143189.94	2.6036	P	0.9
7	☐	500.000	499.776	2257183.23	5.1755	P	0.3
8	☐	1000.000	999.786	4505574.93	10.3534	P	0.8
9	☐			1552.33	0.0035	P	2.4

y = 0.0104 * x + 8.3999E-005
R = 1.0000
DL = 0.003371
BEC = 0.008112

Weight: <None>
Min Conc: 0

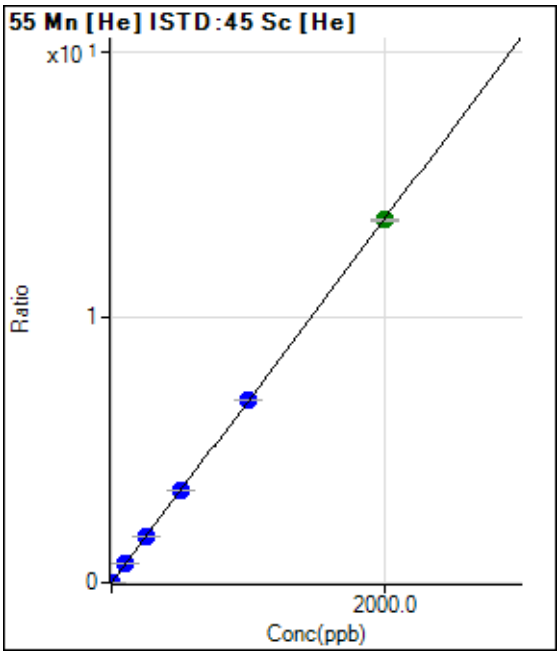
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	878.93	0.0020	P	7.7
2	☐	0.200	0.199	2021.28	0.0045	P	4.7
3	☐	2.000	1.926	11891.66	0.0266	P	0.8
4	☐	50.000	50.676	288769.01	0.6495	P	1.0
5	☐	125.000	126.874	727776.97	1.6231	P	0.9
6	☐	250.000	252.963	1420030.29	3.2341	P	0.9
7	☐	500.000	500.584	2790383.88	6.3981	P	0.5
8	☐	1000.000	998.700	5554036.79	12.7627	A	1.0
9	☐			127988.60	0.2887	P	0.7

y = 0.0128 * x + 0.0020
R = 1.0000
DL = 0.03543
BEC = 0.1529

Weight: <None>
Min Conc: 0

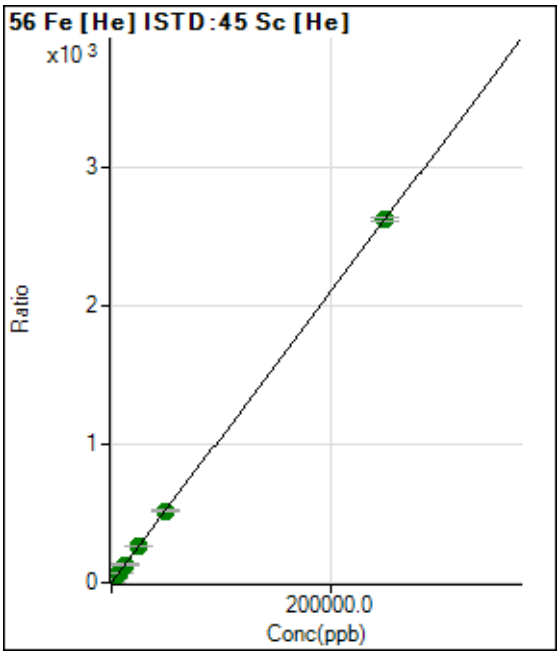


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	100.00	0.0002	P	17.1
2	☐	0.100	0.181	657.80	0.0015	P	1.7
3	☐	1.000	0.927	2941.46	0.0066	P	5.1
4	☐	100.000	101.489	308979.64	0.6949	P	0.2
5	☐	250.000	253.620	778541.85	1.7363	P	0.7
6	☐	500.000	506.461	1522249.28	3.4670	P	1.0
7	☐	1000.000	1003.700	2996458.84	6.8706	P	0.6
8	☐	2000.000	1996.008	5945997.41	13.6630	A	0.9
9	☐			23610.25	0.0533	P	0.4

y = 0.0068 * x + 2.2222E-004
R = 1.0000
DL = 0.01665
BEC = 0.03246

Weight: <None>
Min Conc: 0

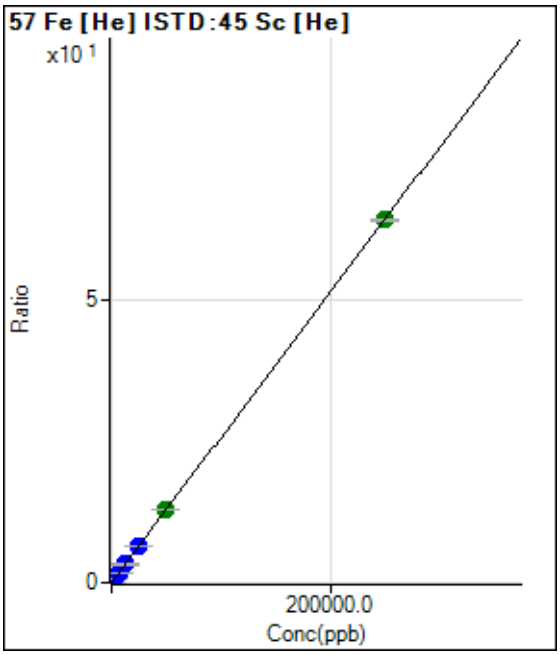
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	7244.58	0.0161	P	1.0
2	☐	5.000	4.523	28524.60	0.0634	P	0.1
3	☐	50.000	44.955	217686.11	0.4862	P	0.4
4	☐	2500.000	2498.577	11623938.68	26.1430	A	0.6
5	☐	6250.000	6262.646	29371937.69	65.5027	A	0.2
6	☐	12500.000	12574.056	57736745.27	131.4993	A	1.2
7	☐	25000.000	24937.946	113735579.39	260.7848	A	0.1
8	☐	50000.000	49567.396	225567384.67	518.3277	A	0.6
9	☐	250000.00	250088.72	1159130722.2	2,615.120	A	1.0

y = 0.0105 * x + 0.0161
R = 1.0000
DL = 0.04392
BEC = 1.54

Weight: <None>
Min Conc: 0

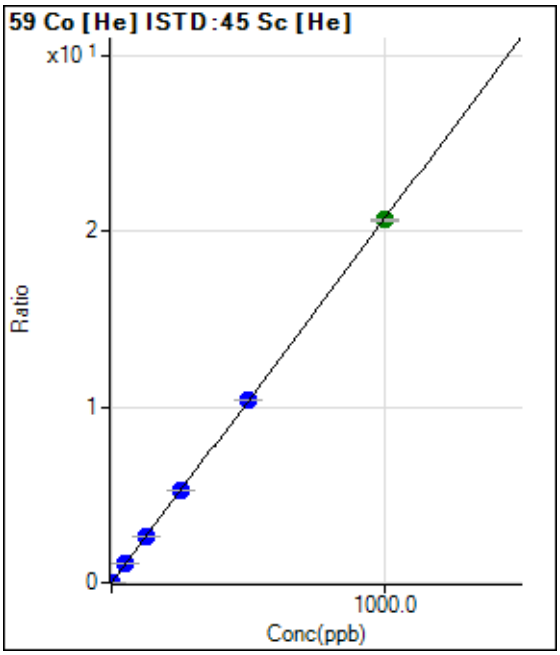


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	174.08	0.0004	P	6.9
2	☐	5.000	3.903	625.96	0.0014	P	1.1
3	☐	50.000	45.419	5406.71	0.0121	P	1.1
4	☐	2500.000	2491.943	285308.46	0.6417	P	0.8
5	☐	6250.000	6266.894	723341.93	1.6131	P	1.0
6	☐	12500.000	12599.205	1423783.24	3.2427	P	1.0
7	☐	25000.000	24975.372	2803283.28	6.4277	P	0.6
8	☐	50000.000	49835.694	5581393.99	12.8253	A	0.2
9	☐	250000.00	250030.02	28521698.78	64.3442	A	0.4

y = 2.5734E-004 * x + 3.8685E-004
R = 1.0000
DL = 0.3093
BEC = 1.503

Weight: <None>
Min Conc: 0

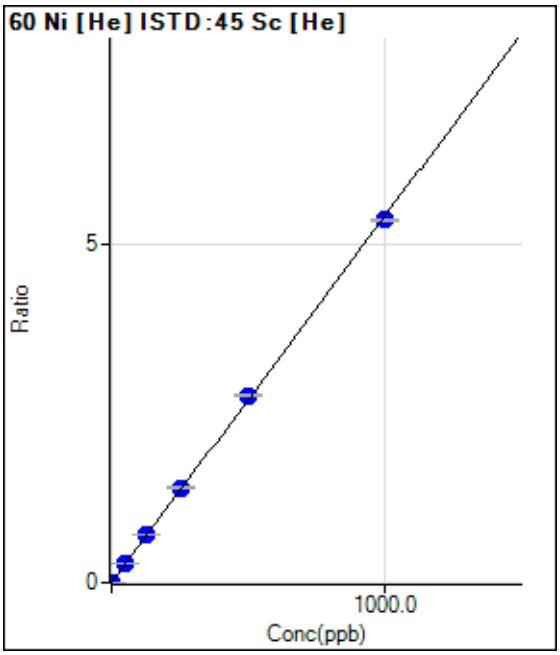
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	141.11	0.0003	P	13.1
2	☐	0.100	0.097	1047.83	0.0023	P	0.5
3	☐	1.000	0.919	8661.56	0.0193	P	0.4
4	☐	50.000	51.086	470659.56	1.0585	P	0.3
5	☐	125.000	126.787	1177778.63	2.6267	P	1.0
6	☐	250.000	254.505	2314858.47	5.2723	P	1.3
7	☐	500.000	501.854	4534019.03	10.3961	P	0.7
8	☐	1000.000	997.669	8993808.83	20.6667	A	0.4
9	☐			11600.31	0.0262	P	1.0

y = 0.0207 * x + 3.1368E-004
R = 1.0000
DL = 0.005947
BEC = 0.01514

Weight: <None>
Min Conc: 0

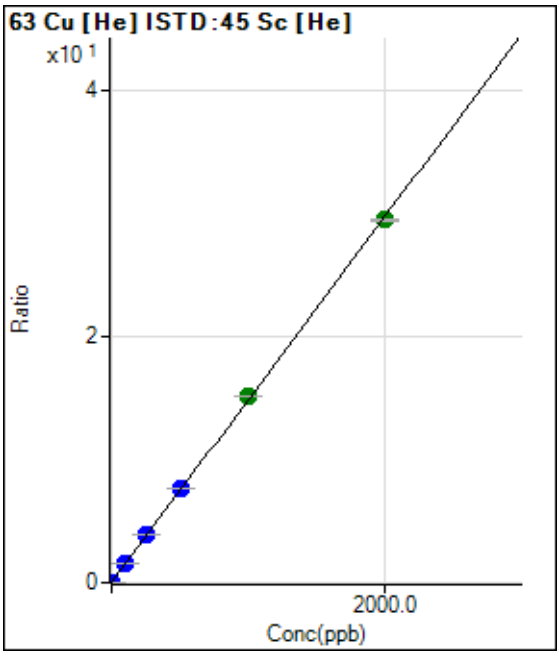


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	377.79	0.0008	P	16.9
2	☐	0.100	0.108	640.03	0.0014	P	8.5
3	☐	1.000	0.946	2668.07	0.0060	P	3.7
4	☐	50.000	52.456	126657.89	0.2849	P	0.8
5	☐	125.000	131.160	318816.45	0.7110	P	0.6
6	☐	250.000	259.777	617944.96	1.4074	P	1.5
7	☐	500.000	510.917	1206854.40	2.7672	P	0.7
8	☐	1000.000	991.204	2335936.09	5.3677	P	0.6
9	☐			29882.87	0.0674	P	1.7

y = 0.0054 * x + 8.3949E-004
R = 0.9999
DL = 0.07849
BEC = 0.155

Weight: <None>
Min Conc: 0

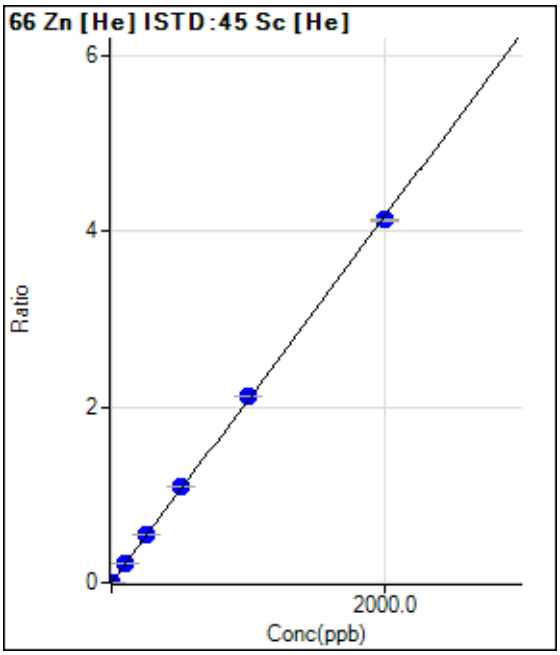
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	8549.31	0.0190	P	2.0
2	☐	0.200	0.223	10043.58	0.0223	P	1.8
3	☐	2.000	2.277	23648.19	0.0528	P	0.3
4	☐	100.000	104.111	695893.19	1.5651	P	0.6
5	☐	250.000	258.767	1731646.90	3.8618	P	0.6
6	☐	500.000	513.979	3359640.05	7.6518	P	1.3
7	☐	1000.000	1019.651	6612273.65	15.1613	A	0.5
8	☐	2000.000	1985.378	12839210.09	29.5029	A	0.4
9	☐			23874.16	0.0539	P	1.7

y = 0.0149 * x + 0.0190
R = 0.9999
DL = 0.07593
BEC = 1.28

Weight: <None>
Min Conc: 0

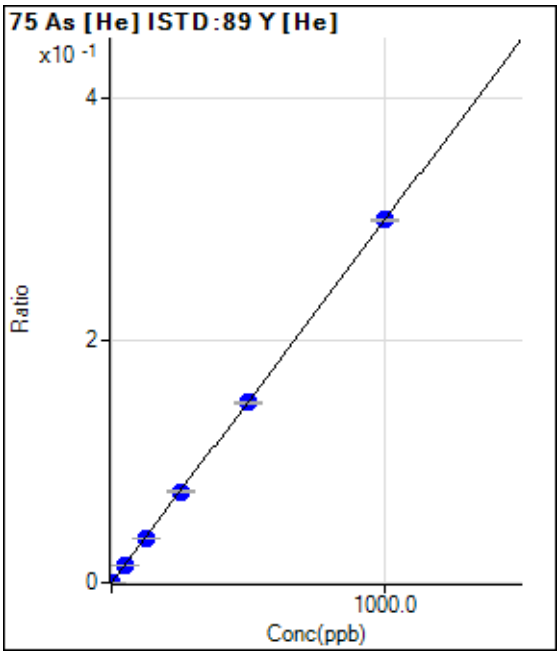


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	234.45	0.0005	P	7.2
2	☐	0.200	0.215	435.57	0.0010	P	3.1
3	☐	2.000	2.113	2203.53	0.0049	P	1.7
4	☐	100.000	105.866	98272.26	0.2210	P	0.5
5	☐	250.000	262.060	244982.54	0.5463	P	0.4
6	☐	500.000	523.674	479117.37	1.0912	P	1.3
7	☐	1000.000	1019.790	926573.42	2.1245	P	0.5
8	☐	2000.000	1982.386	1797077.04	4.1294	P	0.2
9	☐			14526.28	0.0328	P	1.5

y = 0.0021 * x + 5.2125E-004
R = 0.9998
DL = 0.05396
BEC = 0.2503

Weight: <None>
Min Conc: 0

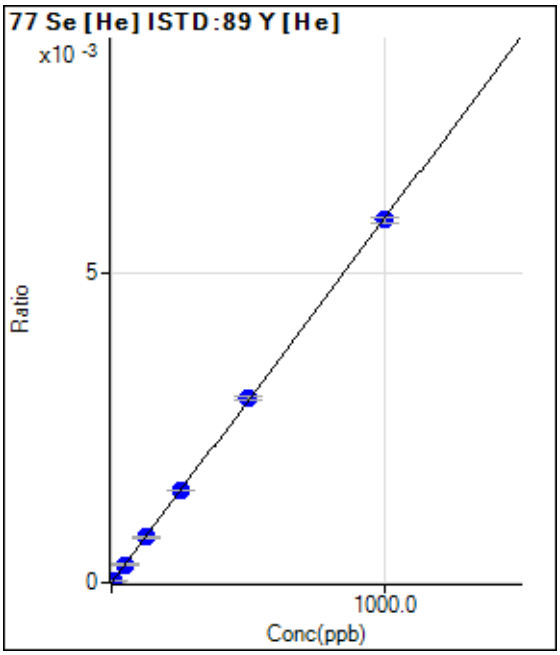
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	27.16	0.0000	P	39.7
2	☐	0.100	0.071	73.46	0.0000	P	9.6
3	☐	1.000	0.880	603.10	0.0003	P	3.6
4	☐	50.000	50.051	32332.21	0.0150	P	0.4
5	☐	125.000	123.774	81121.34	0.0370	P	0.4
6	☐	250.000	250.581	159865.76	0.0750	P	1.6
7	☐	500.000	496.657	313785.38	0.1486	P	0.2
8	☐	1000.000	1001.677	624476.18	0.2997	P	0.5
9	☐			1071.66	0.0005	P	9.7

y = 2.9922E-004 * x + 1.2419E-005
R = 1.0000
DL = 0.04944
BEC = 0.0415

Weight: <None>
Min Conc: 0

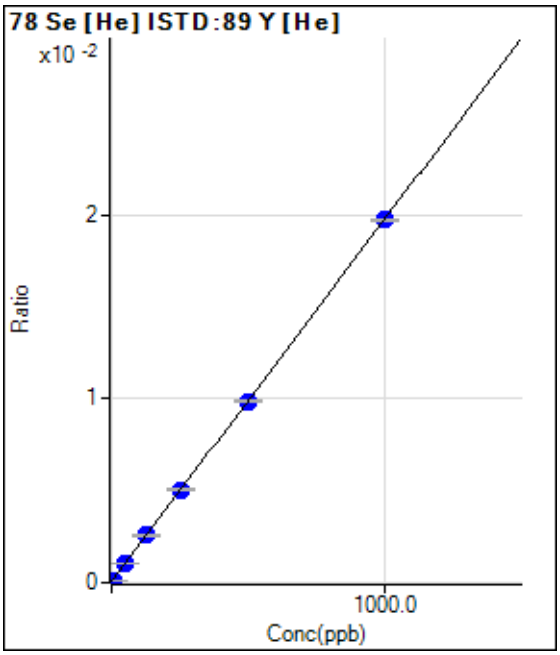


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	0.00	0.0000	P	
2	☐	0.500	0.609	7.78	0.0000	P	89.2
3	☐	5.000	5.108	65.55	0.0000	P	6.0
4	☐	50.000	49.970	632.25	0.0003	P	12.5
5	☐	125.000	124.527	1600.11	0.0007	P	1.0
6	☐	250.000	253.665	3173.74	0.0015	P	0.6
7	☐	500.000	505.263	6260.34	0.0030	P	2.0
8	☐	1000.000	996.513	12184.18	0.0058	P	1.6
9	☐			20.00	0.0000	P	60.5

y = 5.8685E-006 * x + 0.0000E+000
R = 1.0000
DL = 0
BEC = 0

Weight: <None>
Min Conc: 0

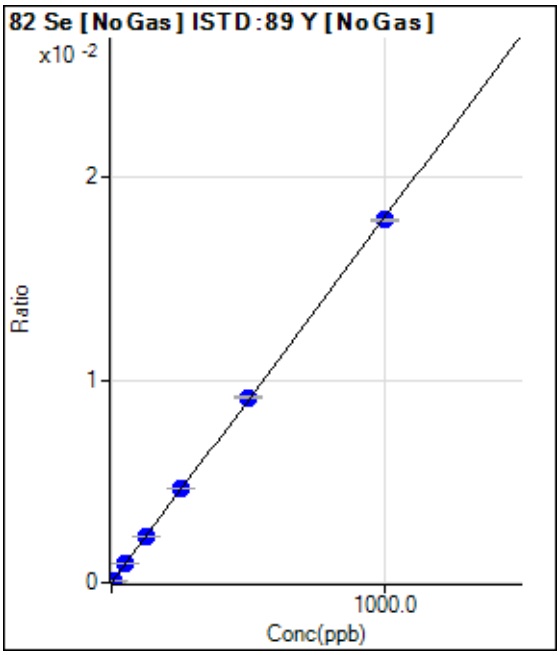
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	132.72	0.0001	P	18.2
2	☐	0.500	0.462	151.85	0.0001	P	14.8
3	☐	5.000	4.656	332.72	0.0002	P	2.8
4	☐	50.000	50.572	2276.13	0.0011	P	3.3
5	☐	125.000	128.470	5665.98	0.0026	P	3.6
6	☐	250.000	254.427	10797.93	0.0051	P	1.0
7	☐	500.000	498.835	20844.07	0.0099	P	1.1
8	☐	1000.000	999.015	41065.30	0.0197	P	0.3
9	☐			222.22	0.0001	P	9.3

y = 1.9670E-005 * x + 6.0574E-005
R = 1.0000
DL = 1.678
BEC = 3.08

Weight: <None>
Min Conc: 0

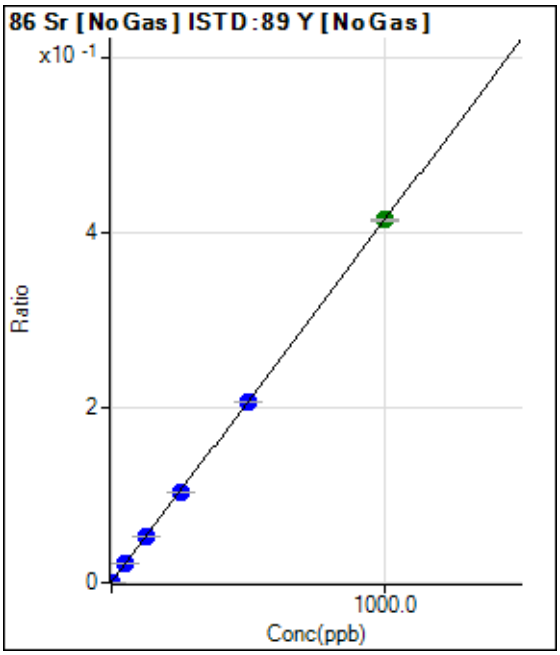


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	54.74	0.0000	P	268.
2	☐	0.500	-0.121	20.98	0.0000	P	400.
3	☐	5.000	3.830	1114.65	0.0001	P	5.9
4	☐	50.000	50.931	13940.64	0.0009	P	1.4
5	☐	125.000	126.832	34802.36	0.0023	P	1.4
6	☐	250.000	257.608	69990.53	0.0046	P	0.4
7	☐	500.000	507.567	134434.09	0.0091	P	1.0
8	☐	1000.000	994.045	265926.20	0.0179	P	0.2
9	☐			213.18	0.0000	P	51.7

y = 1.8005E-005 * x + 3.5724E-006
R = 0.9999
DL = 1.596
BEC = 0.1984

Weight: <None>
Min Conc: 0

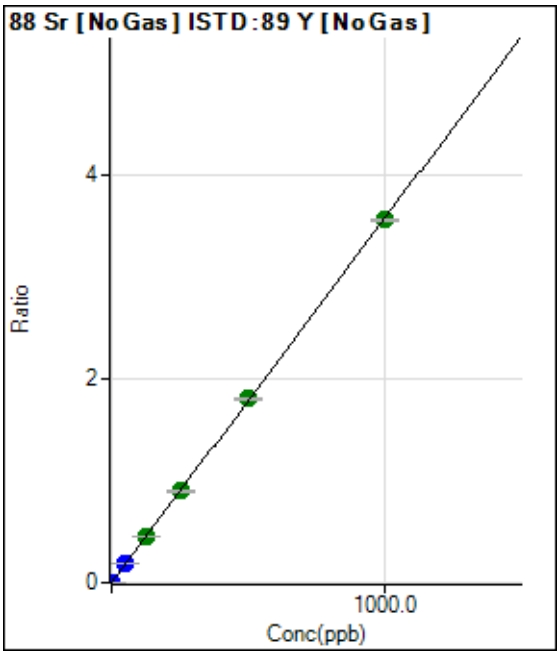
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	7713.46	0.0005	P	5.1
2	☐	0.100	0.049	7971.97	0.0005	P	2.8
3	☐	1.000	0.675	11988.77	0.0008	P	1.8
4	☐	50.000	49.808	319754.29	0.0211	P	0.4
5	☐	125.000	123.814	787335.11	0.0517	P	0.2
6	☐	250.000	249.994	1567514.47	0.1040	P	0.9
7	☐	500.000	498.061	3038403.30	0.2066	P	0.6
8	☐	1000.000	1001.129	6162363.76	0.4148	A	0.7
9	☐			172395.41	0.0121	P	0.6

y = 4.1386E-004 * x + 5.0064E-004
R = 1.0000
DL = 0.1865
BEC = 1.21

Weight: <None>
Min Conc: 0

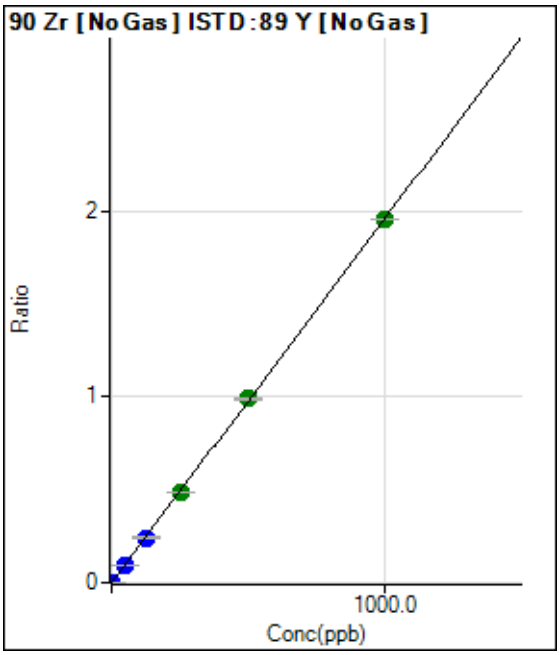


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	683.38	0.0000	P	11.2
2	☐	0.100	0.075	4795.47	0.0003	P	5.7
3	☐	1.000	0.794	44174.59	0.0029	P	2.1
4	☐	50.000	50.615	2733282.37	0.1805	P	0.6
5	☐	125.000	125.359	6801275.15	0.4470	A	1.0
6	☐	250.000	251.460	13517034.50	0.8965	A	0.9
7	☐	500.000	505.791	26515363.09	1.8032	A	0.7
8	☐	1000.000	996.664	52783134.86	3.5532	A	0.6
9	☐			1450714.12	0.1015	P	0.2

y = 0.0036 * x + 4.4373E-005
R = 1.0000
DL = 0.004171
BEC = 0.01245

Weight: <None>
Min Conc: 0

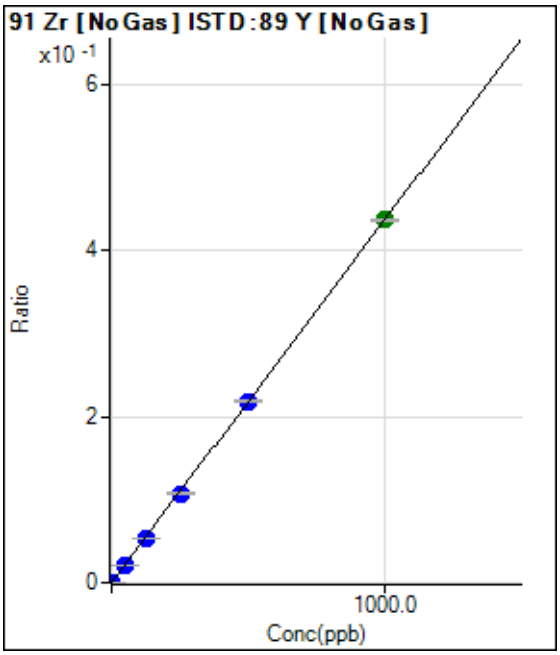
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	983.41	0.0001	P	17.6
2	☐	0.100	0.061	2817.09	0.0002	P	4.9
3	☐	1.000	0.734	23083.36	0.0015	P	4.4
4	☐	50.000	48.993	1454380.41	0.0960	P	0.5
5	☐	125.000	124.095	3699686.67	0.2431	P	0.6
6	☐	250.000	247.945	7324061.28	0.4857	A	0.5
7	☐	500.000	505.235	14553209.18	0.9897	A	1.3
8	☐	1000.000	998.060	29042689.54	1.9551	A	0.1
9	☐			9122.82	0.0006	P	3.9

y = 0.0020 * x + 6.3850E-005
R = 1.0000
DL = 0.01724
BEC = 0.0326

Weight: <None>
Min Conc: 0

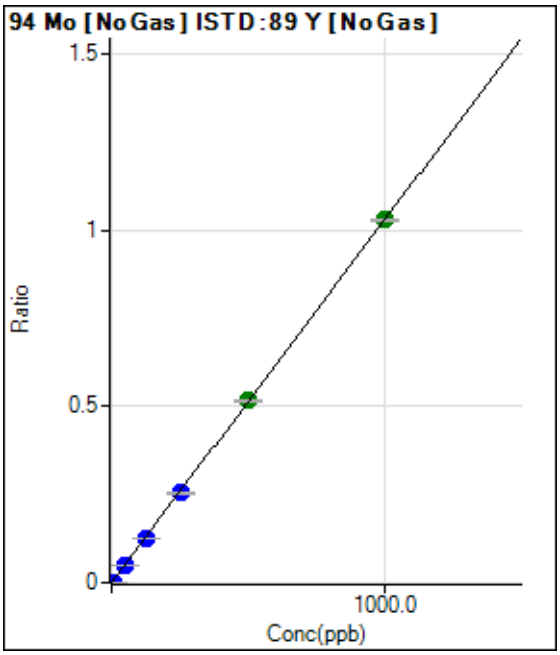


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	205.57	0.0000	P	32.7
2	☐	0.100	0.056	580.60	0.0000	P	14.8
3	☐	1.000	0.730	5101.17	0.0003	P	6.1
4	☐	50.000	48.898	323206.85	0.0213	P	0.9
5	☐	125.000	123.843	822207.15	0.0540	P	0.1
6	☐	250.000	246.150	1619111.57	0.1074	P	0.6
7	☐	500.000	500.301	3209205.60	0.2182	P	0.7
8	☐	1000.000	1001.012	6486496.20	0.4367	A	0.4
9	☐			2116.93	0.0001	P	2.8

y = 4.3620E-004 * x + 1.3345E-005
R = 1.0000
DL = 0.03002
BEC = 0.03059

Weight: <None>
Min Conc: 0

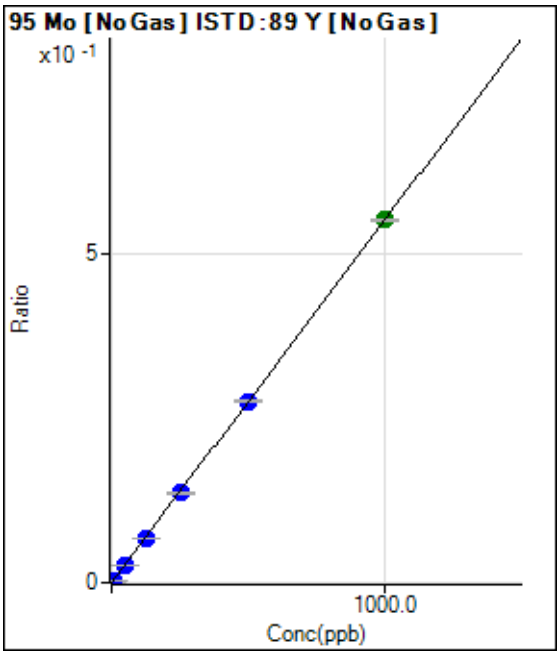
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	550.03	0.0000	P	11.6
2	☐	0.500	0.160	3069.91	0.0002	P	3.4
3	☐	5.000	1.758	28384.62	0.0018	P	1.7
4	☐	50.000	48.531	757688.65	0.0500	P	1.2
5	☐	125.000	122.962	1928147.16	0.1267	P	0.8
6	☐	250.000	247.155	3839734.37	0.2547	P	0.9
7	☐	500.000	501.201	7593237.50	0.5164	A	0.8
8	☐	1000.000	1000.455	15311445.31	1.0307	A	0.4
9	☐			27995.21	0.0020	P	8.7

y = 0.0010 * x + 3.5700E-005
R = 1.0000
DL = 0.01209
BEC = 0.03465

Weight: <None>
Min Conc: 0

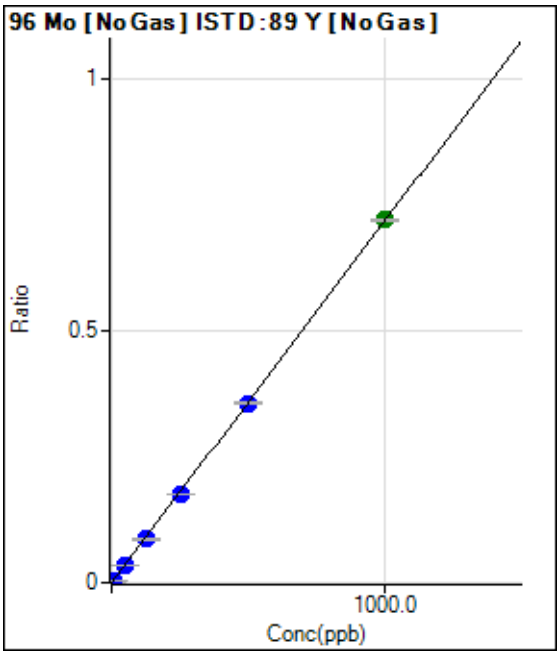


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	347.24	0.0000	P	33.8
2	☐	0.500	0.402	3742.33	0.0002	P	2.8
3	☐	5.000	4.089	35038.59	0.0023	P	3.9
4	☐	50.000	48.012	401636.33	0.0265	P	0.3
5	☐	125.000	121.639	1021879.12	0.0672	P	1.4
6	☐	250.000	247.189	2057268.82	0.1364	P	0.6
7	☐	500.000	499.343	4052666.41	0.2756	P	1.1
8	☐	1000.000	1001.556	8211604.18	0.5528	A	0.4
9	☐			43372.78	0.0030	P	8.3

y = 5.5190E-004 * x + 2.2533E-005
R = 1.0000
DL = 0.04138
BEC = 0.04083

Weight: <None>
Min Conc: 0

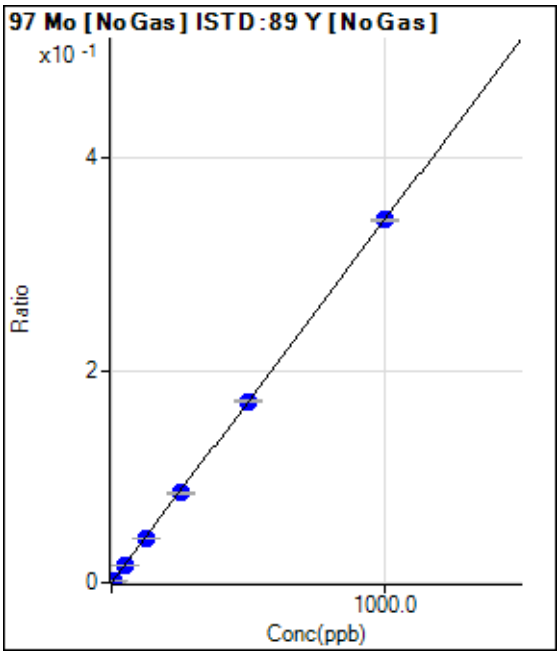
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	527.81	0.0000	P	4.9
2	☐	0.500	0.339	4248.05	0.0003	P	4.3
3	☐	5.000	3.491	39065.79	0.0025	P	1.4
4	☐	50.000	47.737	519811.06	0.0343	P	0.4
5	☐	125.000	120.000	1312088.18	0.0862	P	1.0
6	☐	250.000	244.019	2643250.71	0.1753	P	0.8
7	☐	500.000	495.995	5239180.06	0.3563	P	1.3
8	☐	1000.000	1004.243	10715902.58	0.7214	A	0.8
9	☐			53192.24	0.0037	P	8.2

y = 7.1829E-004 * x + 3.4263E-005
R = 1.0000
DL = 0.006966
BEC = 0.0477

Weight: <None>
Min Conc: 0

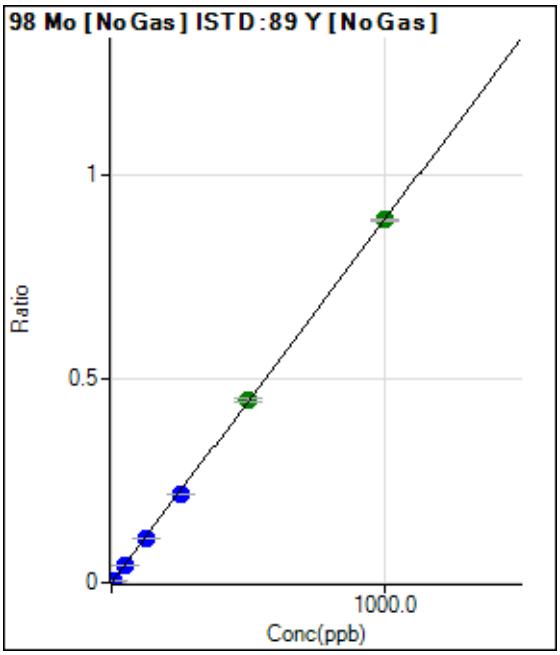


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	233.34	0.0000	P	12.8
2	☐	0.500	0.397	2305.85	0.0002	P	9.6
3	☐	5.000	4.132	21903.70	0.0014	P	0.5
4	☐	50.000	47.987	248203.83	0.0164	P	0.6
5	☐	125.000	121.859	632950.09	0.0416	P	1.0
6	☐	250.000	247.068	1271325.37	0.0843	P	0.9
7	☐	500.000	500.896	2513433.65	0.1709	P	1.1
8	☐	1000.000	1000.782	5073042.52	0.3415	P	0.4
9	☐			26770.39	0.0019	P	8.0

y = 3.4122E-004 * x + 1.5147E-005
R = 1.0000
DL = 0.01705
BEC = 0.04439

Weight: <None>
Min Conc: 0

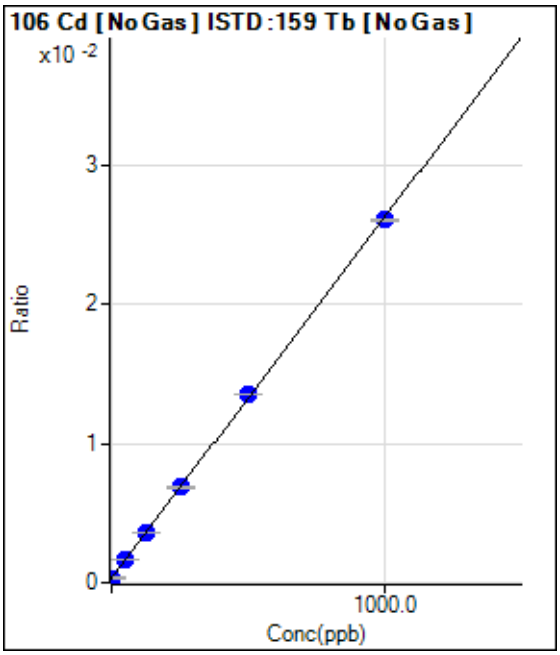
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	563.93	0.0000	P	13.1
2	☐	0.500	0.419	6279.42	0.0004	P	1.6
3	☐	5.000	4.028	55768.61	0.0036	P	1.5
4	☐	50.000	47.786	645877.85	0.0426	P	0.7
5	☐	125.000	120.896	1641068.56	0.1078	P	1.1
6	☐	250.000	244.778	3291573.05	0.2183	P	1.1
7	☐	500.000	503.416	6601477.36	0.4489	A	1.2
8	☐	1000.000	1000.226	13250373.04	0.8920	A	0.3
9	☐			68483.03	0.0048	P	9.5

y = 8.9173E-004 * x + 3.6603E-005
R = 1.0000
DL = 0.01611
BEC = 0.04105

Weight: <None>
Min Conc: 0

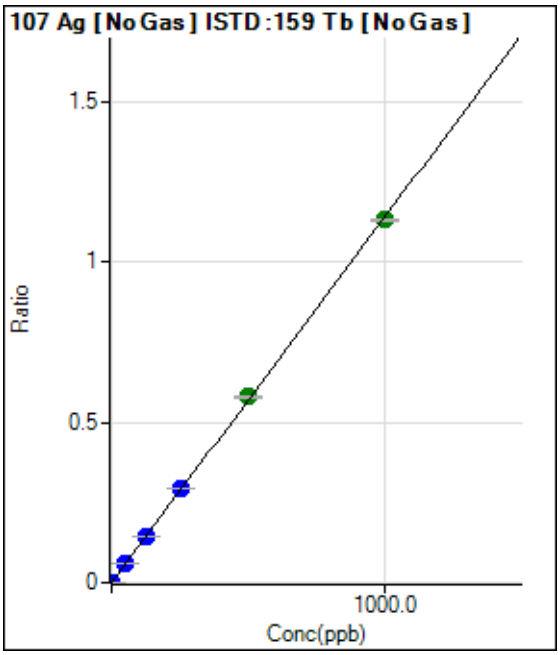


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	5820.91	0.0003	P	0.6
2	☐	0.100	0.278	5904.27	0.0003	P	2.7
3	☐	1.000	1.261	6446.20	0.0003	P	4.2
4	☐	50.000	51.428	30717.77	0.0016	P	1.3
5	☐	125.000	126.650	66939.39	0.0036	P	1.3
6	☐	250.000	252.931	127259.84	0.0069	P	1.0
7	☐	500.000	510.269	246290.83	0.0135	P	0.7
8	☐	1000.000	993.854	478642.55	0.0261	P	0.8
9	☐			5259.56	0.0003	P	5.7

y = 2.5927E-005 * x + 3.0834E-004
R = 0.9999
DL = 0.2248
BEC = 11.89

Weight: <None>
Min Conc: 0

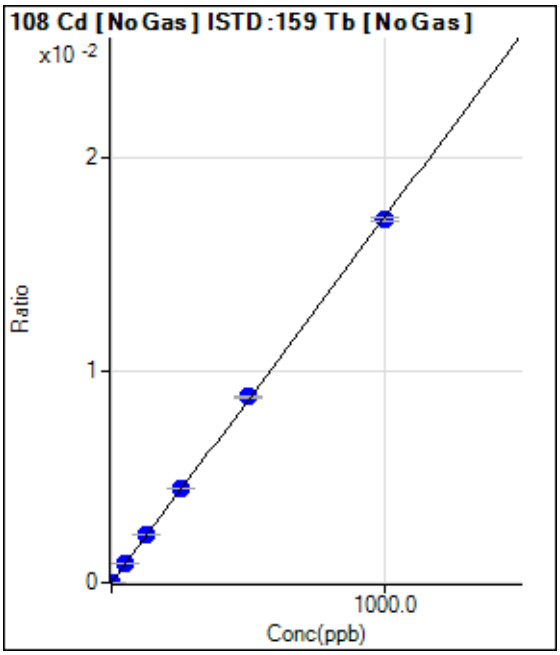
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	241.68	0.0000	P	16.0
2	☐	0.100	0.115	2689.26	0.0001	P	13.6
3	☐	1.000	1.196	25997.03	0.0014	P	2.0
4	☐	50.000	51.556	1099879.73	0.0588	P	0.4
5	☐	125.000	128.296	2725662.58	0.1463	P	1.0
6	☐	250.000	256.320	5415595.13	0.2922	P	0.4
7	☐	500.000	509.111	10557831.49	0.5803	A	0.8
8	☐	1000.000	993.374	20785677.03	1.1324	A	0.4
9	☐			3950.72	0.0002	P	13.9

y = 0.0011 * x + 1.2805E-005
R = 0.9999
DL = 0.005403
BEC = 0.01123

Weight: <None>
Min Conc: 0

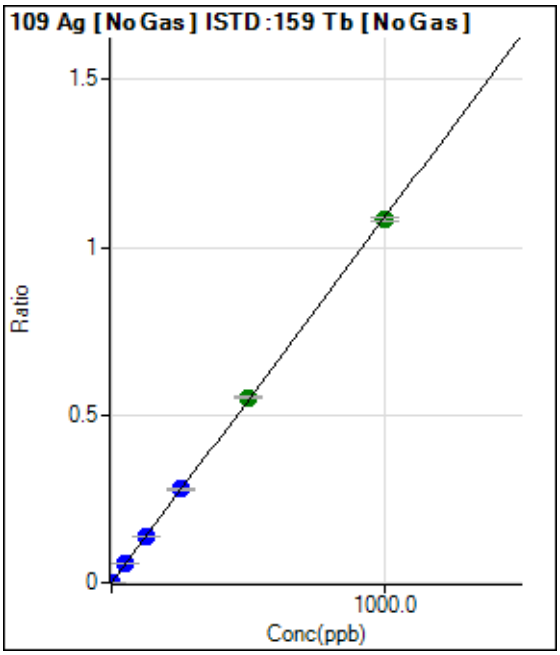


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	22.22	0.0000	P	78.4
2	☐	0.100	0.099	54.17	0.0000	P	25.3
3	☐	1.000	0.892	312.51	0.0000	P	5.9
4	☐	50.000	52.035	16779.64	0.0009	P	0.8
5	☐	125.000	130.555	41898.26	0.0022	P	0.7
6	☐	250.000	255.796	81620.95	0.0044	P	0.2
7	☐	500.000	509.179	159452.01	0.0088	P	0.5
8	☐	1000.000	993.165	313783.40	0.0171	P	1.1
9	☐			102.78	0.0000	P	15.5

y = 1.7211E-005 * x + 1.1786E-006
R = 0.9999
DL = 0.1611
BEC = 0.06848

Weight: <None>
Min Conc: 0

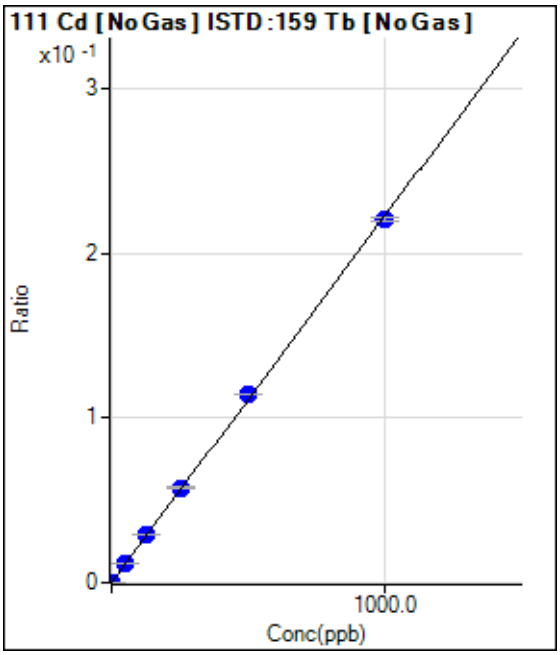
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	150.01	0.0000	P	14.9
2	☐	0.100	0.118	2542.01	0.0001	P	5.2
3	☐	1.000	1.212	25075.91	0.0013	P	2.1
4	☐	50.000	51.453	1048074.31	0.0560	P	0.4
5	☐	125.000	128.566	2608193.24	0.1399	P	0.5
6	☐	250.000	255.996	5164670.17	0.2786	P	0.8
7	☐	500.000	508.183	10063066.20	0.5531	A	0.4
8	☐	1000.000	993.891	19857389.33	1.0818	A	1.1
9	☐			3672.86	0.0002	P	9.6

y = 0.0011 * x + 7.9476E-006
R = 0.9999
DL = 0.003265
BEC = 0.007302

Weight: <None>
Min Conc: 0

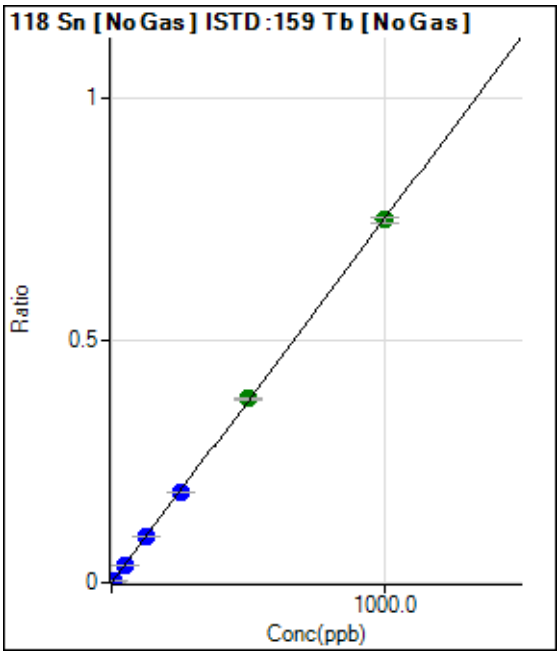


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1184.18	0.0001	P	1.2
2	☐	0.100	0.092	1555.31	0.0001	P	2.9
3	☐	1.000	0.924	5070.43	0.0003	P	1.7
4	☐	50.000	52.072	217826.68	0.0116	P	0.3
5	☐	125.000	130.213	540764.38	0.0290	P	0.8
6	☐	250.000	259.202	1069414.25	0.0577	P	0.4
7	☐	500.000	512.999	2076344.13	0.1141	P	0.1
8	☐	1000.000	990.445	4043650.53	0.2203	P	1.2
9	☐			1779.18	0.0001	P	9.4

y = 2.2236E-004 * x + 6.2726E-005
R = 0.9998
DL = 0.01015
BEC = 0.2821

Weight: <None>
Min Conc: 0

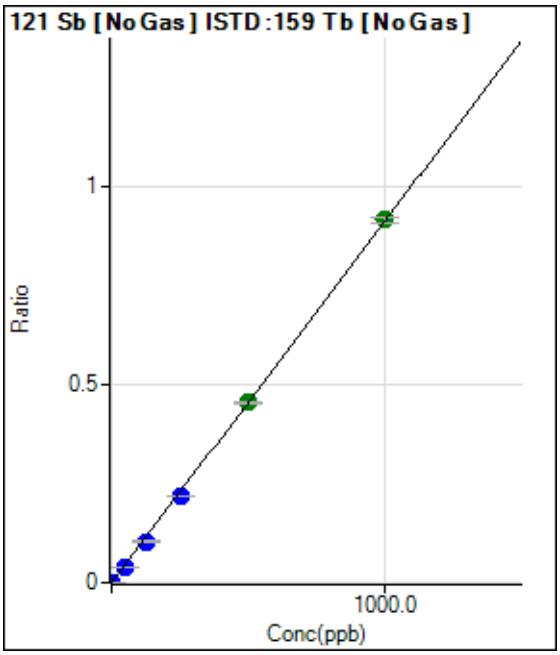
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	827.84	0.0000	P	3.9
2	☐	0.500	0.441	7013.19	0.0004	P	2.7
3	☐	5.000	4.342	62425.50	0.0033	P	0.6
4	☐	50.000	49.298	693356.80	0.0371	P	0.4
5	☐	125.000	125.382	1755083.22	0.0942	P	0.6
6	☐	250.000	249.610	3474063.58	0.1874	P	0.0
7	☐	500.000	505.186	6900591.47	0.3793	A	1.0
8	☐	1000.000	997.496	13746553.43	0.7489	A	1.4
9	☐			16387.94	0.0009	P	7.6

y = 7.5075E-004 * x + 4.3850E-005
R = 1.0000
DL = 0.006892
BEC = 0.05841

Weight: <None>
Min Conc: 0

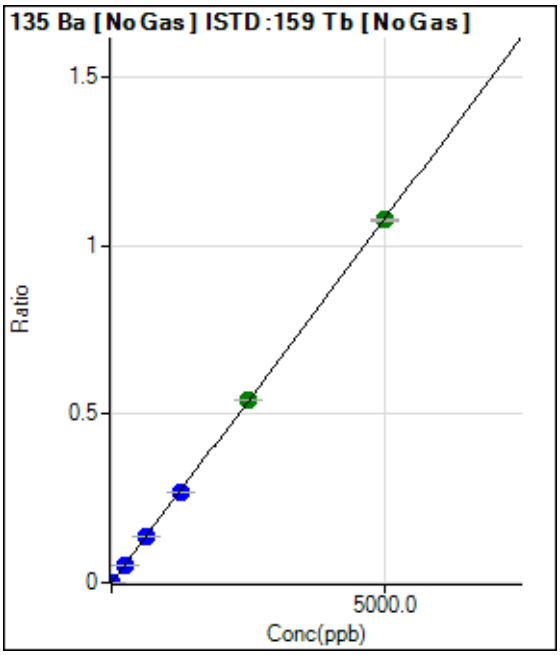


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	927.86	0.0000	P	4.6
2	☐	0.200	0.188	4131.34	0.0002	P	4.0
3	☐	2.000	1.828	32463.53	0.0017	P	1.5
4	☐	50.000	40.837	698344.33	0.0373	P	3.2
5	☐	125.000	113.745	1935696.44	0.1039	P	2.6
6	☐	250.000	239.325	4048998.09	0.2185	P	1.3
7	☐	500.000	498.855	8283321.19	0.4553	A	1.0
8	☐	1000.000	1005.107	16837822.95	0.9173	A	1.3
9	☐			91339.90	0.0052	P	8.3

y = 9.1261E-004 * x + 4.9144E-005
R = 0.9999
DL = 0.007438
BEC = 0.05385

Weight: <None>
Min Conc: 0

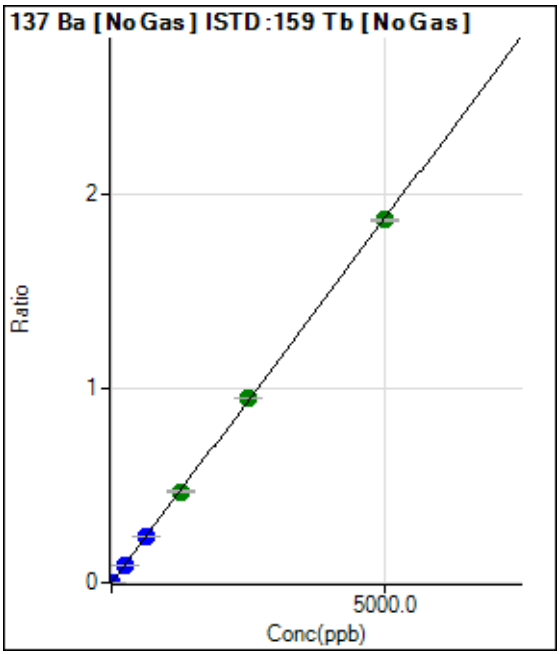
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	88.89	0.0000	P	28.2
2	☐	1.000	0.879	3639.54	0.0002	P	4.0
3	☐	10.000	8.831	36114.67	0.0019	P	1.2
4	☐	250.000	249.077	1006073.94	0.0538	P	0.6
5	☐	625.000	627.780	2525534.09	0.1355	P	0.8
6	☐	1250.000	1254.501	5018994.69	0.2708	P	0.2
7	☐	2500.000	2516.409	9881725.83	0.5432	A	0.3
8	☐	5000.000	4990.371	19772701.14	1.0772	A	0.8
9	☐			7544.05	0.0004	P	4.2

y = 2.1585E-004 * x + 4.7054E-006
R = 1.0000
DL = 0.01845
BEC = 0.0218

Weight: <None>
Min Conc: 0

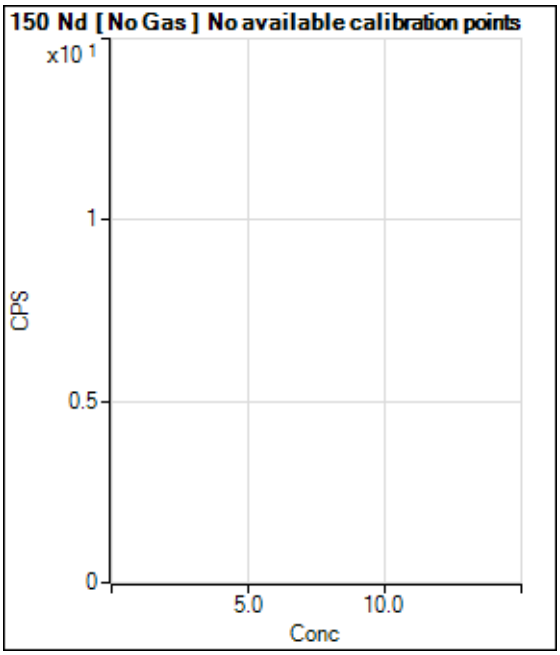


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	200.01	0.0000	P	19.3
2	☐	1.000	0.877	6348.94	0.0003	P	3.0
3	☐	10.000	8.818	62667.29	0.0033	P	0.7
4	☐	250.000	250.184	1754985.35	0.0938	P	0.3
5	☐	625.000	635.752	4441579.92	0.2383	P	1.1
6	☐	1250.000	1254.346	8714988.30	0.4702	A	0.1
7	☐	2500.000	2527.884	17239018.09	0.9476	A	0.3
8	☐	5000.000	4983.621	34291067.43	1.8681	A	0.8
9	☐			13262.41	0.0008	P	4.1

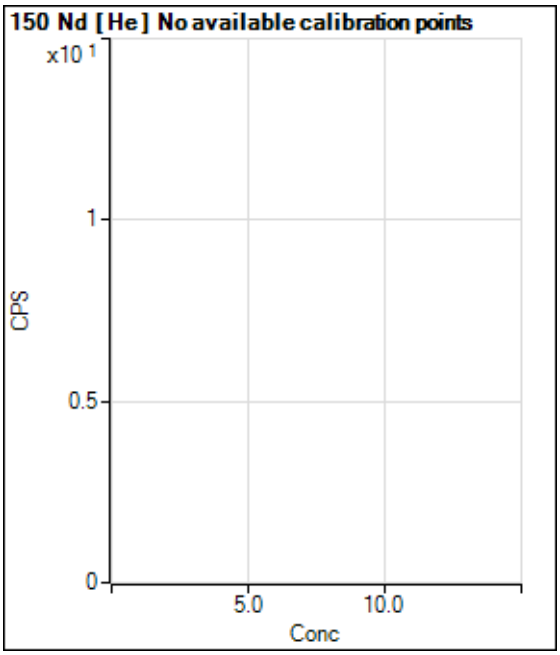
y = 3.7485E-004 * x + 1.0597E-005
R = 1.0000
DL = 0.01639
BEC = 0.02827

Weight: <None>
Min Conc: 0

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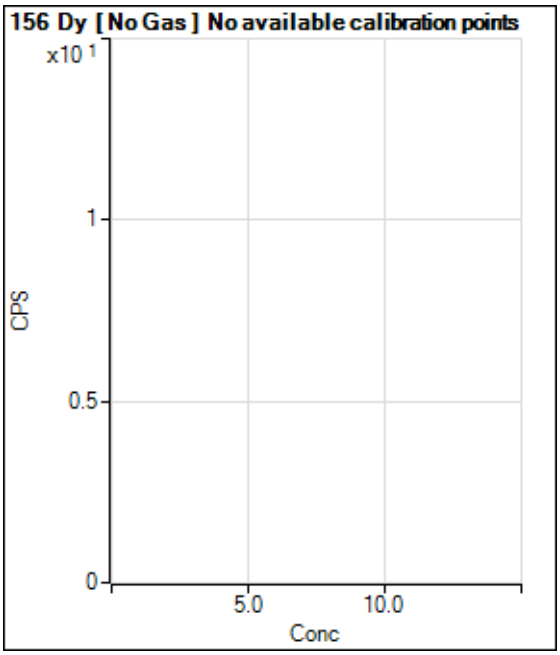


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			6.67		P	173.
2	☐			2.22		P	173.
3	☐			22.22		P	45.8
4	☐			80.00		P	14.4
5	☐			171.12		P	27.4
6	☐			315.57		P	17.1
7	☐			753.38		P	2.7
8	☐			1053.42		P	8.3
9	☐			217.79		P	22.6

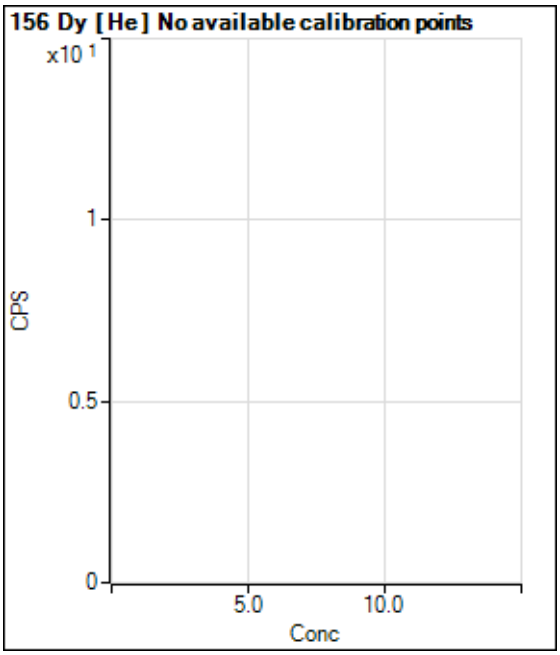


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			1.11		P	173.
2	☐			1.11		P	173.
3	☐			0.00		P	
4	☐			5.56		P	91.6
5	☐			23.33		P	42.9
6	☐			41.11		P	12.4
7	☐			140.01		P	25.2
8	☐			113.34		P	14.7
9	☐			103.34		P	19.6

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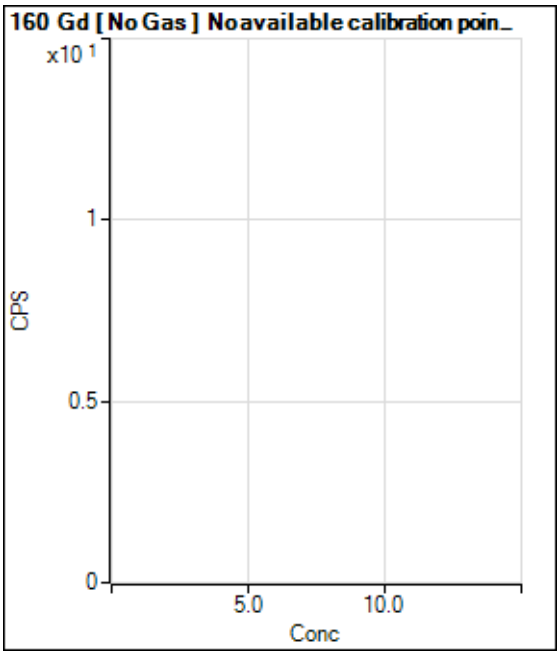


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			13.89		P	91.6
2	☐			38.89		P	24.7
3	☐			30.56		P	41.7
4	☐			25.00		P	57.7
5	☐			50.00		P	16.7
6	☐			105.56		P	31.9
7	☐			288.90		P	44.8
8	☐			308.35		P	15.0
9	☐			302.80		P	15.2

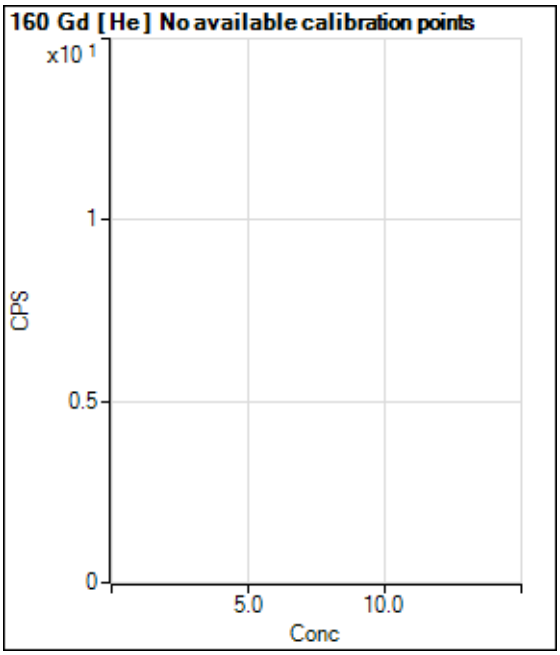


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			12.22		P	15.7
2	☐			5.56		P	34.7
3	☐			8.89		P	108.
4	☐			10.00		P	88.2
5	☐			7.78		P	65.5
6	☐			18.89		P	44.4
7	☐			85.56		P	21.5
8	☐			77.78		P	28.5
9	☐			103.34		P	19.6

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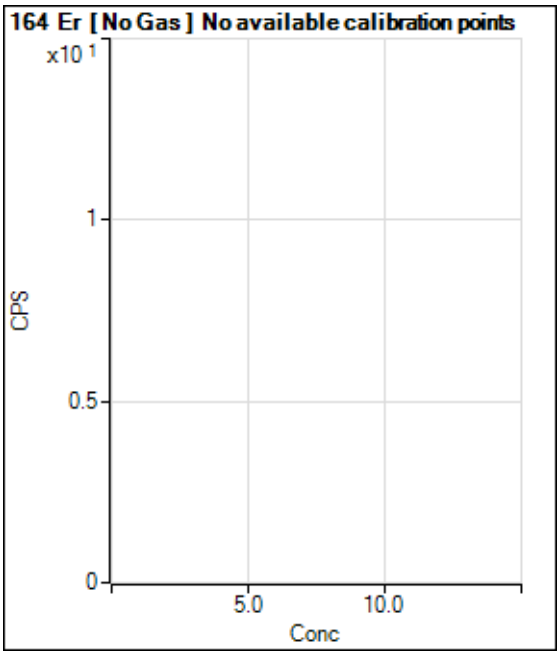


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			150.01		P	34.7
2	☐			108.34		P	15.4
3	☐			150.01		P	5.6
4	☐			158.34		P	9.1
5	☐			163.90		P	12.8
6	☐			166.67		P	22.9
7	☐			263.91		P	6.6
8	☐			194.45		P	13.1
9	☐			272.24		P	15.7

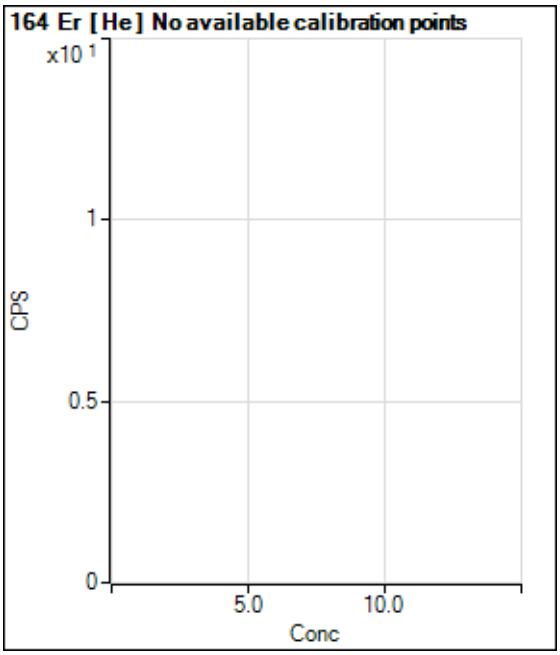


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			81.12		P	16.6
2	☐			51.11		P	3.8
3	☐			76.67		P	8.7
4	☐			62.22		P	16.4
5	☐			81.12		P	4.7
6	☐			81.12		P	24.1
7	☐			140.00		P	24.7
8	☐			134.45		P	10.0
9	☐			150.00		P	11.5

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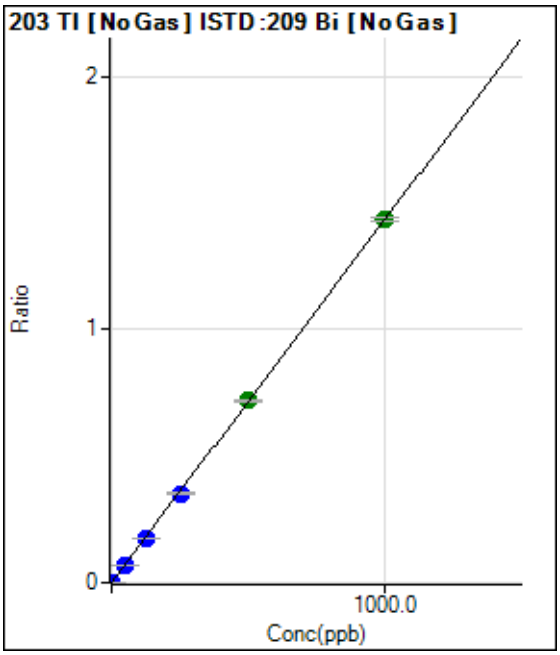


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			44.45		P	28.7
2	☐			61.11		P	28.4
3	☐			108.34		P	7.7
4	☐			63.89		P	7.5
5	☐			69.45		P	54.1
6	☐			77.78		P	30.9
7	☐			147.23		P	40.9
8	☐			108.34		P	7.7
9	☐			161.12		P	3.0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			26.67		P	12.5
2	☐			30.00		P	29.4
3	☐			42.22		P	12.1
4	☐			25.55		P	41.9
5	☐			26.67		P	33.1
6	☐			30.00		P	33.3
7	☐			67.78		P	10.2
8	☐			56.67		P	5.9
9	☐			85.56		P	11.9

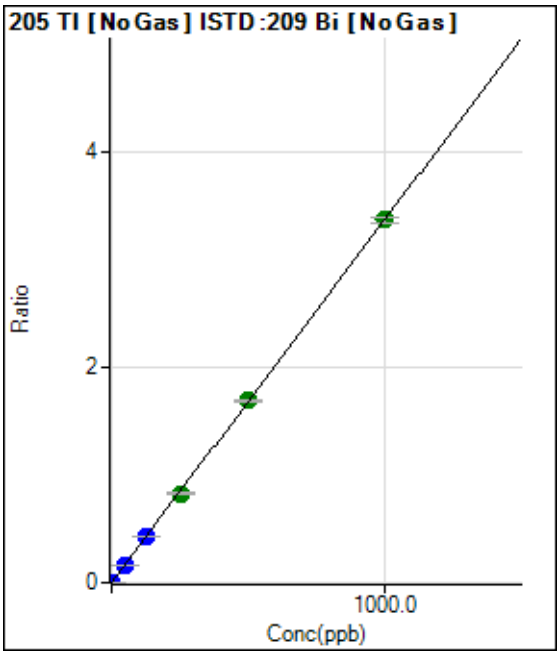
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	238.90	0.0000	P	5.7
2	☐	0.100	0.095	1911.33	0.0002	P	3.8
3	☐	1.000	0.863	15326.07	0.0013	P	1.0
4	☐	50.000	48.416	838692.86	0.0694	P	0.6
5	☐	125.000	122.127	2103093.67	0.1750	P	0.2
6	☐	250.000	245.779	4180946.66	0.3522	P	0.8
7	☐	500.000	502.076	8265551.57	0.7196	A	0.4
8	☐	1000.000	1000.456	16303337.34	1.4338	A	1.2
9	☐			6890.98	0.0007	P	9.9

y = 0.0014 * x + 1.9445E-005
R = 1.0000
DL = 0.002308
BEC = 0.01357

Weight: <None>
Min Conc: 0

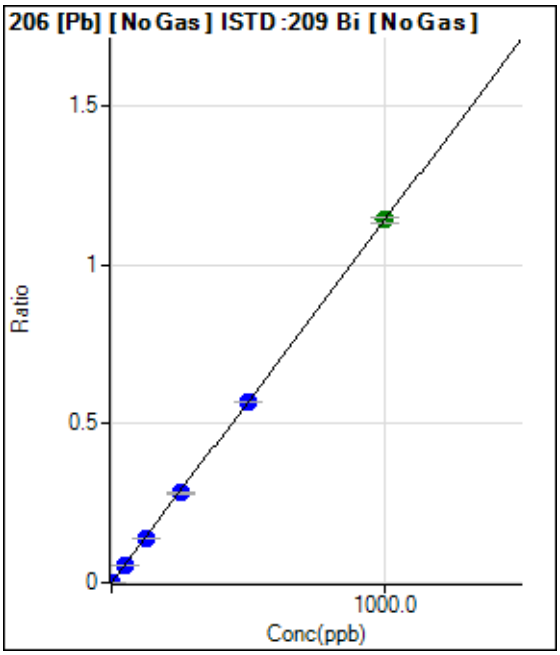


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	538.93	0.0000	P	3.0
2	☐	0.100	0.088	4192.52	0.0003	P	4.2
3	☐	1.000	0.910	37952.47	0.0031	P	2.3
4	☐	50.000	49.316	2009565.61	0.1663	P	0.3
5	☐	125.000	124.887	5059007.62	0.4211	P	0.3
6	☐	250.000	245.948	9841774.27	0.8292	A	0.9
7	☐	500.000	501.143	19407827.69	1.6895	A	0.7
8	☐	1000.000	1000.490	38353019.61	3.3730	A	1.3
9	☐			16572.12	0.0016	P	8.7

y = 0.0034 * x + 4.3852E-005
R = 1.0000
DL = 0.00116
BEC = 0.01301

Weight: <None>
Min Conc: 0

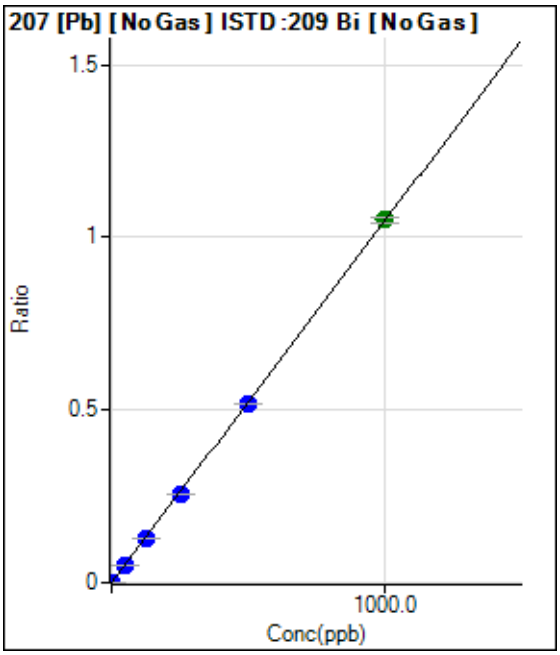
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1702.02	0.0001	P	5.5
2	☐	0.100	0.094	3007.85	0.0002	P	4.9
3	☐	1.000	0.981	15340.79	0.0013	P	0.5
4	☐	50.000	48.897	675609.38	0.0559	P	0.5
5	☐	125.000	122.436	1679521.20	0.1398	P	0.1
6	☐	250.000	247.017	3345887.05	0.2819	P	0.3
7	☐	500.000	499.218	6542320.52	0.5695	P	0.5
8	☐	1000.000	1001.513	12990113.37	1.1425	A	1.9
9	☐			22105.93	0.0022	P	1.1

y = 0.0011 * x + 1.3851E-004
R = 1.0000
DL = 0.01989
BEC = 0.1214

Weight: <None>
Min Conc: 0

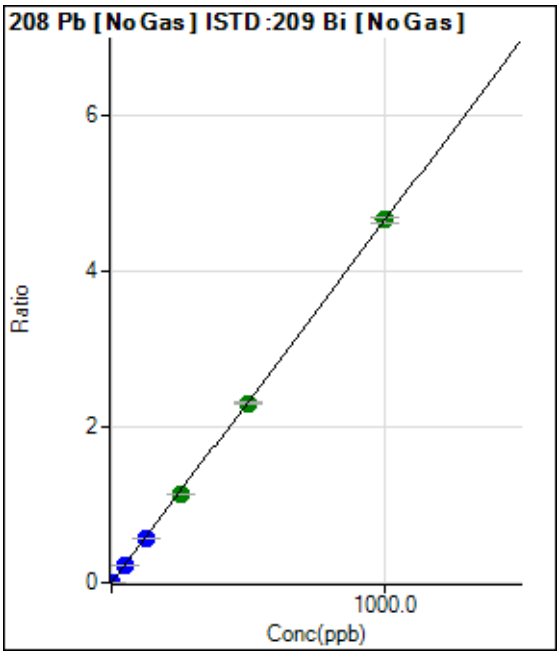


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1561.26	0.0001	P	9.6
2	☐	0.100	0.099	2824.46	0.0002	P	8.9
3	☐	1.000	0.952	13711.16	0.0011	P	2.9
4	☐	50.000	48.132	610223.47	0.0505	P	1.1
5	☐	125.000	121.430	1528347.43	0.1272	P	0.6
6	☐	250.000	245.620	3052568.04	0.2572	P	0.3
7	☐	500.000	495.238	5955021.02	0.5184	P	0.6
8	☐	1000.000	1004.016	11948996.80	1.0509	A	1.5
9	☐			18971.41	0.0019	P	1.8

y = 0.0010 * x + 1.2710E-004
R = 1.0000
DL = 0.03499
BEC = 0.1214

Weight: <None>
Min Conc: 0

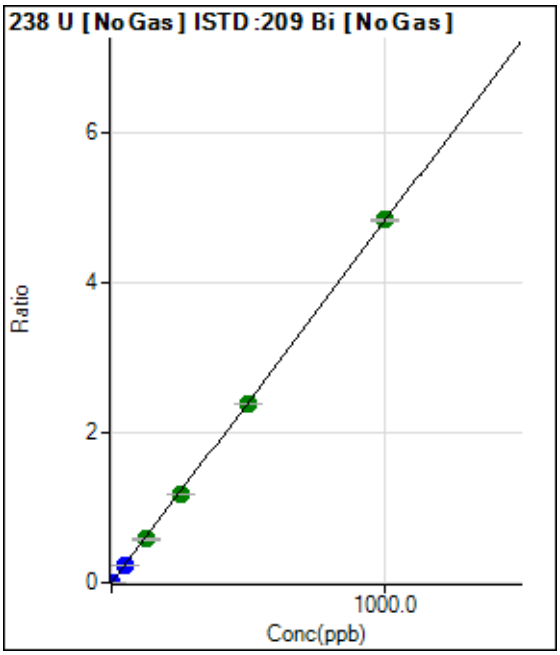
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	6956.48	0.0006	P	1.8
2	☐	0.100	0.096	12424.85	0.0010	P	0.9
3	☐	1.000	0.980	62555.82	0.0051	P	1.1
4	☐	50.000	48.662	2742537.75	0.2270	P	0.7
5	☐	125.000	122.874	6874964.17	0.5722	P	0.5
6	☐	250.000	246.555	13622024.17	1.1476	A	0.1
7	☐	500.000	496.772	26554721.25	2.3117	A	0.5
8	☐	1000.000	1002.808	53056180.01	4.6660	A	1.2
9	☐			88137.17	0.0087	P	1.0

y = 0.0047 * x + 5.6620E-004
R = 1.0000
DL = 0.006497
BEC = 0.1217

Weight: <None>
Min Conc: 0

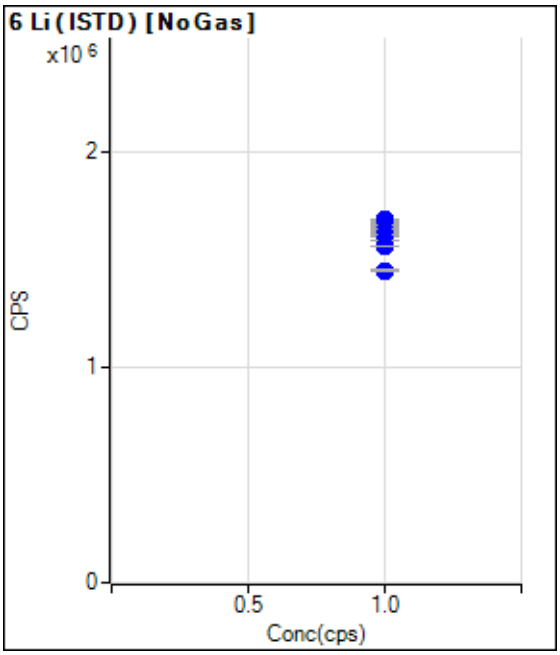


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	466.70	0.0000	P	11.5
2	☐	0.100	0.080	5201.30	0.0004	P	3.4
3	☐	1.000	0.825	48996.45	0.0040	P	0.7
4	☐	50.000	46.625	2714921.24	0.2247	P	0.3
5	☐	125.000	119.989	6946176.24	0.5781	A	0.6
6	☐	250.000	243.851	13944693.19	1.1749	A	0.9
7	☐	500.000	496.028	27452236.03	2.3898	A	0.3
8	☐	1000.000	1004.319	55022241.51	4.8387	A	0.5
9	☐			12587.33	0.0012	P	8.0

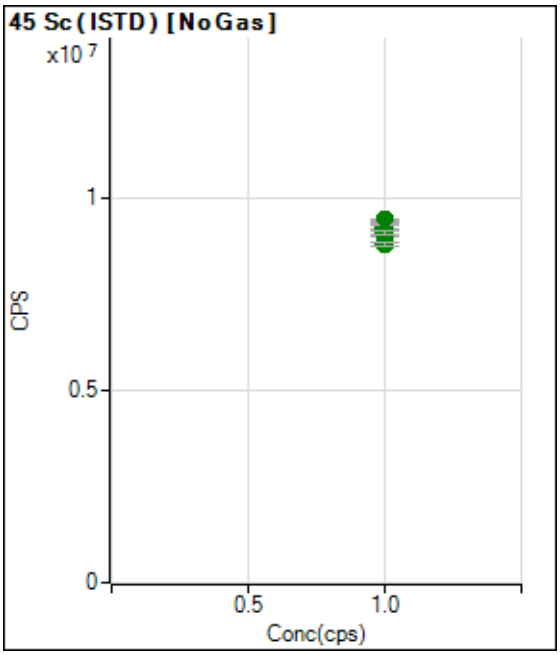
y = 0.0048 * x + 3.7975E-005
R = 1.0000
DL = 0.002718
BEC = 0.007882

Weight: <None>
Min Conc: 0

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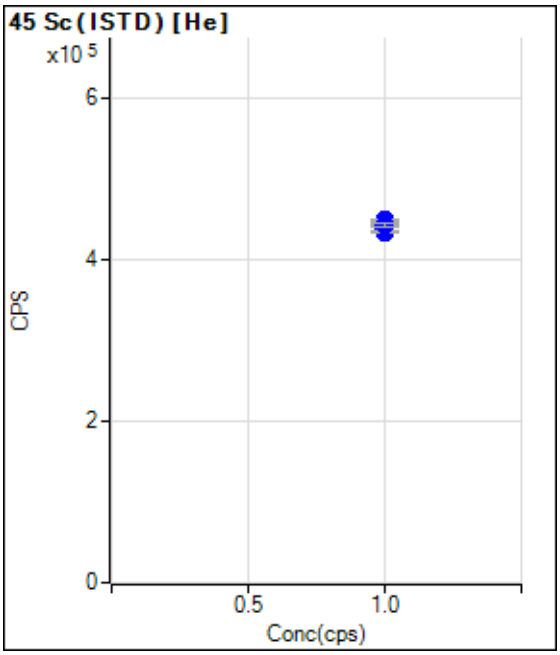


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		1683416.88		P	0.3
2	☐	1.000		1668787.87		P	0.4
3	☐	1.000		1658042.86		P	0.7
4	☐	1.000		1630279.23		P	0.4
5	☐	1.000		1637006.14		P	0.8
6	☐	1.000		1611020.25		P	0.2
7	☐	1.000		1588627.25		P	0.5
8	☐	1.000		1562045.71		P	0.2
9	☐	1.000		1448057.46		P	0.4

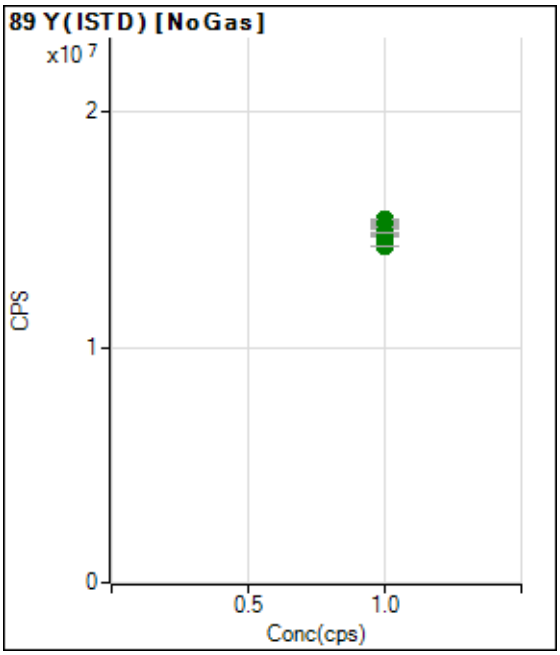


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		9415299.78		A	0.3
2	☐	1.000		9377632.07		A	0.6
3	☐	1.000		9381263.49		A	0.5
4	☐	1.000		9236613.57		A	1.1
5	☐	1.000		9314664.19		A	0.6
6	☐	1.000		9195364.70		A	1.8
7	☐	1.000		8996967.39		A	0.5
8	☐	1.000		9076705.41		A	1.3
9	☐	1.000		8784682.14		A	1.1

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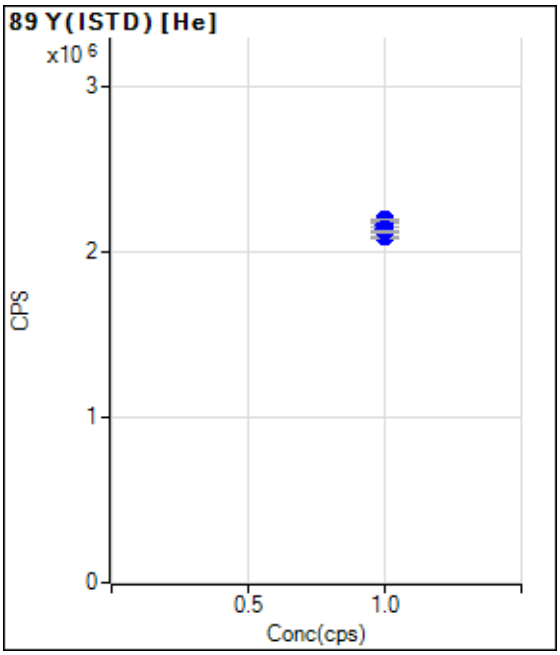


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		449886.66		P	0.5
2	☐	1.000		449934.44		P	0.1
3	☐	1.000		447746.96		P	0.1
4	☐	1.000		444628.67		P	0.1
5	☐	1.000		448410.62		P	0.5
6	☐	1.000		439102.47		P	1.1
7	☐	1.000		436128.19		P	0.1
8	☐	1.000		435186.29		P	0.3
9	☐	1.000		443277.78		P	1.2

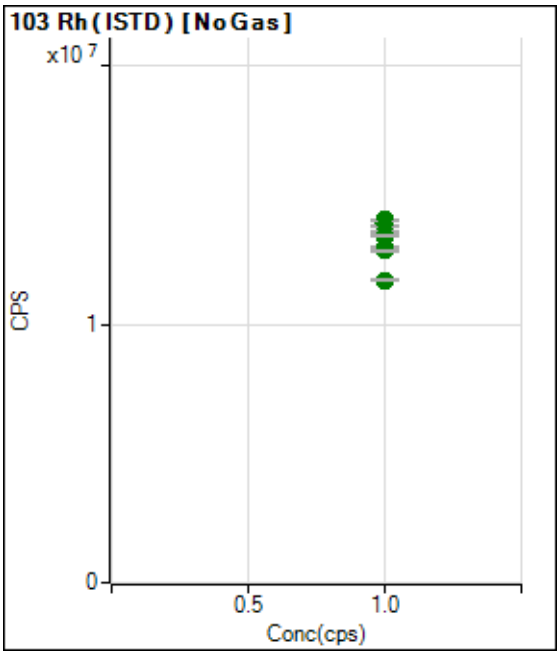


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1	☐	1.000		15404887.82		A	0.4
2	☐	1.000		15307918.94		A	0.7
3	☐	1.000		15369640.88		A	0.6
4	☐	1.000		15144411.16		A	1.0
5	☐	1.000		15216560.60		A	0.7
6	☐	1.000		15078064.22		A	0.7
7	☐	1.000		14705023.53		A	0.6
8	☐	1.000		14855066.03		A	0.4
9	☐	1.000		14290331.73		A	0.0

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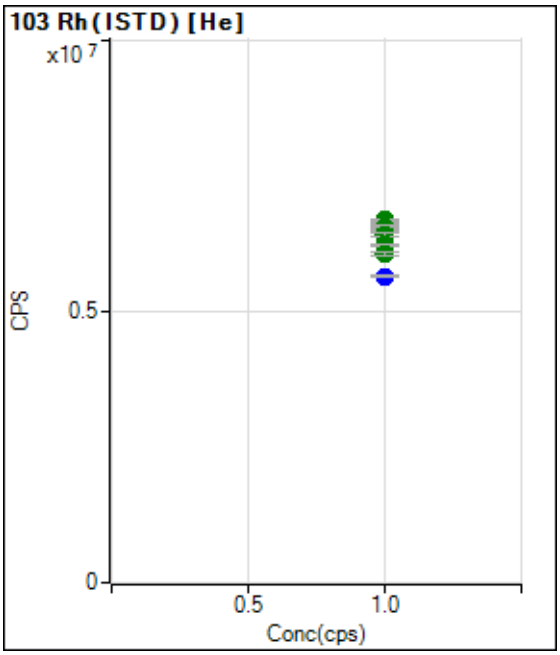


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1	☐	1.000		2189542.54		P	0.7
2	☐	1.000		2179268.79		P	0.2
3	☐	1.000		2186747.90		P	0.2
4	☐	1.000		2157130.56		P	0.8
5	☐	1.000		2189590.35		P	0.2
6	☐	1.000		2132054.59		P	1.5
7	☐	1.000		2111266.46		P	0.4
8	☐	1.000		2083357.09		P	0.6
9	☐	1.000		2120433.35		P	0.8

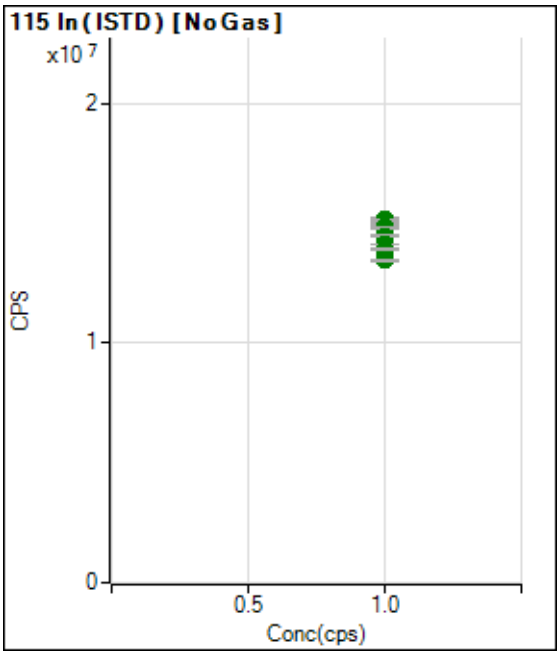


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1	☐	1.000		14051950.66		A	0.9
2	☐	1.000		13953744.24		A	1.0
3	☐	1.000		13906394.06		A	1.0
4	☐	1.000		13801156.56		A	0.1
5	☐	1.000		13576285.72		A	0.7
6	☐	1.000		13441954.99		A	0.4
7	☐	1.000		12985650.55		A	0.3
8	☐	1.000		12870249.85		A	0.6
9	☐	1.000		11721930.64		A	0.2

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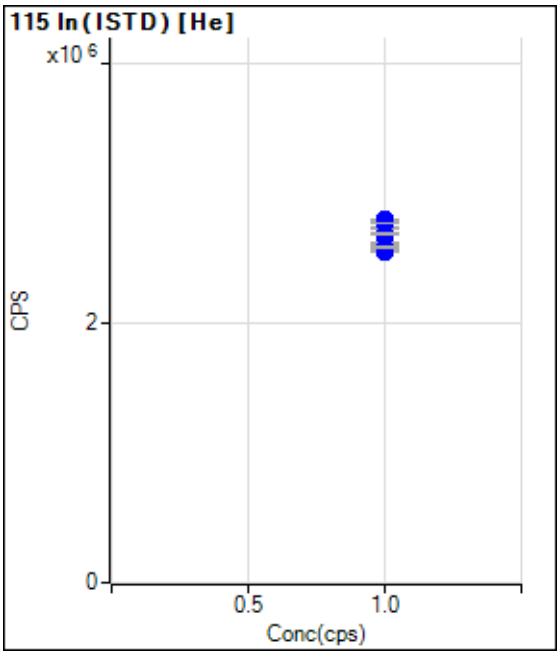


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2	☐	1.000		6653536.70		A	0.5
3	☐	1.000		6688408.79		A	0.5
4	☐	1.000		6499671.57		A	0.6
5	☐	1.000		6570455.80		A	0.3
6	☐	1.000		6415596.43		A	0.8
7	☐	1.000		6232128.66		A	0.4
8	☐	1.000		6062007.34		A	0.6
9	☐	1.000		5644898.73		P	0.6

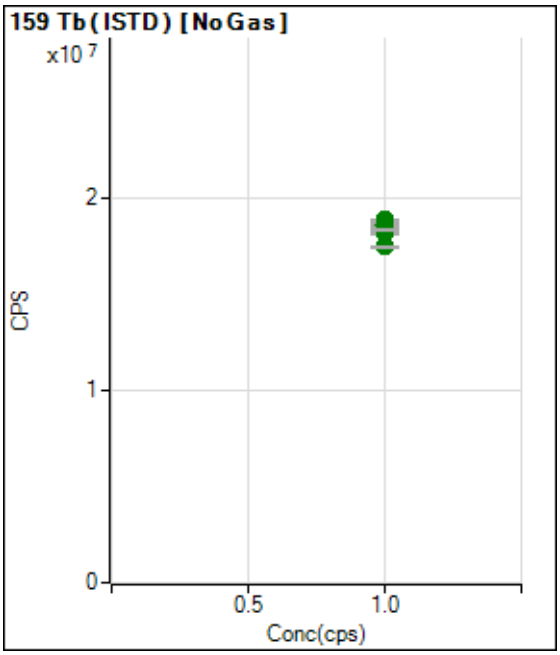


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		15132504.82		A	1.2
2	☐	1.000		15051671.33		A	0.4
3	☐	1.000		15089788.28		A	0.6
4	☐	1.000		14844893.70		A	1.2
5	☐	1.000		14794439.45		A	0.3
6	☐	1.000		14468392.45		A	0.8
7	☐	1.000		14119283.99		A	0.2
8	☐	1.000		13895706.97		A	0.7
9	☐	1.000		13441043.58		A	0.5

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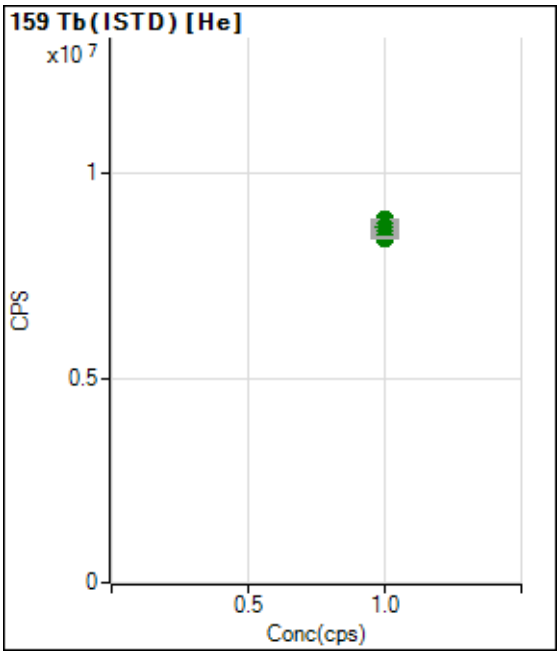


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1		1.000		2799570.29		P	0.5
2		1.000		2782514.80		P	0.3
3		1.000		2791262.44		P	0.3
4		1.000		2737142.39		P	0.7
5		1.000		2772760.50		P	0.4
6		1.000		2693118.96		P	0.6
7		1.000		2618784.86		P	0.6
8		1.000		2555468.78		P	0.7
9		1.000		2587549.75		P	0.8

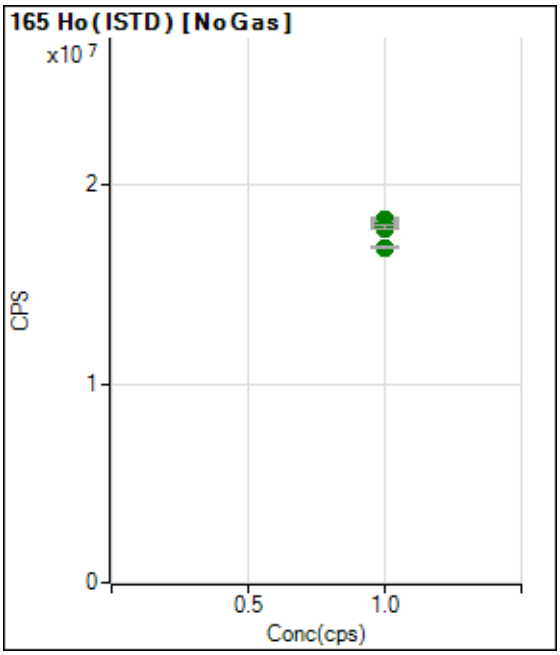


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1		1.000		18878429.44		A	0.5
2		1.000		18714755.69		A	1.2
3		1.000		18898011.11		A	0.8
4		1.000		18711653.89		A	0.7
5		1.000		18637179.58		A	0.8
6		1.000		18534467.78		A	0.2
7		1.000		18192480.56		A	0.2
8		1.000		18356494.03		A	0.7
9		1.000		17479003.49		A	0.8

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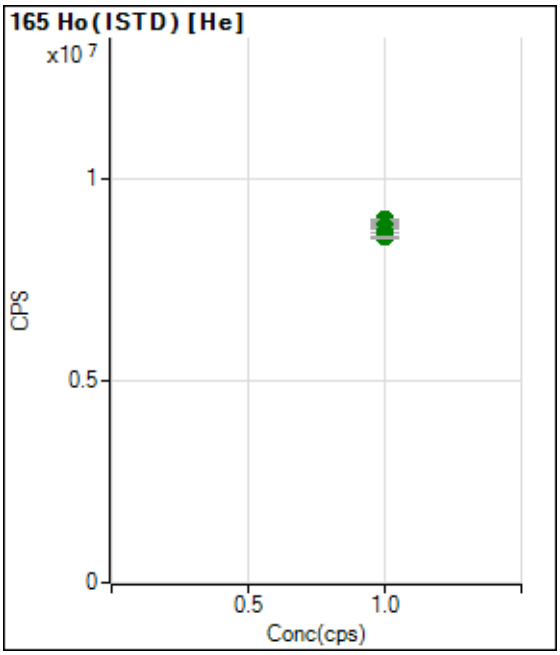


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		8799363.55		A	0.5
2	☐	1.000		8799603.00		A	0.2
3	☐	1.000		8834441.88		A	0.4
4	☐	1.000		8730587.44		A	0.8
5	☐	1.000		8865505.63		A	0.3
6	☐	1.000		8684222.23		A	1.4
7	☐	1.000		8611111.33		A	0.8
8	☐	1.000		8525242.65		A	0.6
9	☐	1.000		8420924.60		A	0.4

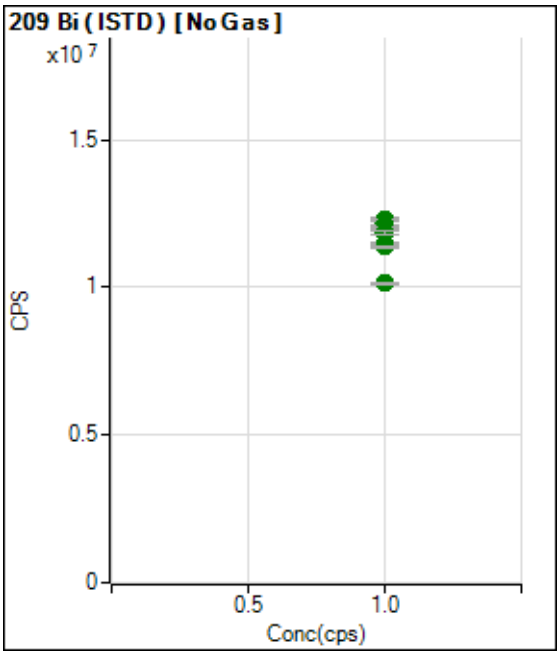


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		18194372.11		A	1.2
2	☐	1.000		18193902.66		A	1.1
3	☐	1.000		18255185.65		A	1.1
4	☐	1.000		18107355.09		A	0.2
5	☐	1.000		18202699.02		A	0.6
6	☐	1.000		18087237.04		A	1.3
7	☐	1.000		17827753.87		A	0.5
8	☐	1.000		17893857.17		A	0.7
9	☐	1.000		16849831.80		A	0.7

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

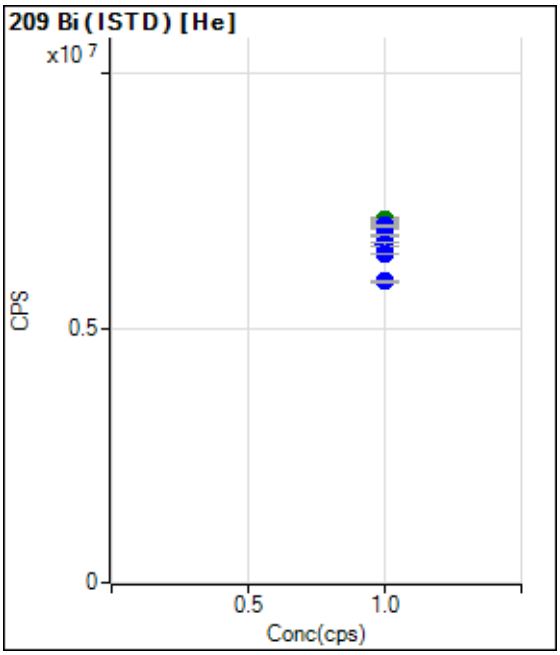


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		8955260.70		A	0.7
2	☐	1.000		8951861.46		A	0.2
3	☐	1.000		8924286.05		A	0.3
4	☐	1.000		8829660.01		A	0.4
5	☐	1.000		8975758.55		A	0.6
6	☐	1.000		8805414.38		A	1.0
7	☐	1.000		8774197.30		A	0.8
8	☐	1.000		8647353.27		A	0.3
9	☐	1.000		8551163.00		A	0.4



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		12287543.15		A	0.9
2	☐	1.000		12258671.48		A	0.6
3	☐	1.000		12203544.68		A	1.7
4	☐	1.000		12083956.76		A	0.2
5	☐	1.000		12014742.46		A	0.4
6	☐	1.000		11869694.82		A	1.0
7	☐	1.000		11487108.30		A	0.4
8	☐	1.000		11371625.38		A	1.0
9	☐	1.000		10137657.07		A	0.2

Reviewed By:jaswal
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Inst Id :P7
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		7127374.27		M	1.3
2	☐	1.000		7130090.52		A	0.5
3	☐	1.000		7011459.13		P	0.3
4	☐	1.000		6979697.12		P	0.5
5	☐	1.000		7020266.77		P	0.5
6	☐	1.000		6817822.26		P	0.8
7	☐	1.000		6658017.89		P	0.8
8	☐	1.000		6463475.94		P	0.5
9	☐	1.000		5916332.55		P	0.4

US EPA Tune Check Sample Report

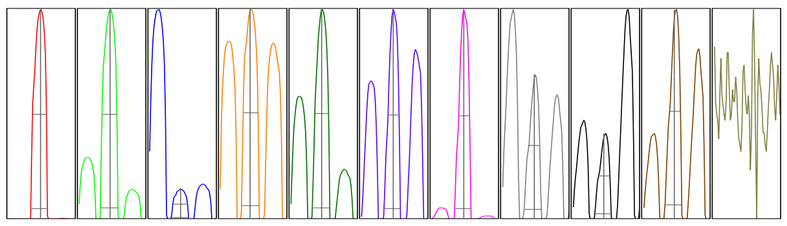
Batch Folder D:\ICP-MS Data\P7041817.b
Report Comment
Instrument Name G8403A JP14410463

[No Gas]

Mass	Count (Mean)	RSD% (Actual)	RSD% (Required)	RSD% (Flag)
9	101223	0.37	5.00	
24	3465913	0.40	5.00	
25	484902	0.35	5.00	
26	576166	0.36	5.00	
59	1137753	0.51	5.00	
113	183072	0.88	5.00	
115	2751817	0.74	5.00	
206	396687	0.93	5.00	
207	342069	0.81	5.00	
208	844821	0.60	5.00	
220	10	9.27		

Mass	Replicate 1 Count	Replicate 2 Count	Replicate 3 Count	Replicate 4 Count	Replicate 5 Count
9	101059	100816	101217	101185	101839
24	3470327	3457350	3475660	3446549	3479682
25	484710	482776	484732	484708	487583
26	577094	573774	574652	576206	579103
59	1133026	1132701	1138529	1146908	1137602
113	181802	181237	183223	185243	183856
115	2723582	2740254	2753053	2771781	2770417
206	391772	393898	399006	400423	398334
207	338094	340345	344577	344202	343126
208	836620	843510	849810	847375	846789
220	11	9	9	11	10

Integration Time [sec] = 0.1



Mass	Peak Height	Axis (Actual)	Axis (Required)	Axis (Flag)	Width-X% (Actual)	Width-X% (Required)	Width-X% (Flag)
9	17393	9.00	8.9 - 9.1		0.739	0.900	
24	557004	23.95	23.9 - 24.1		0.788	0.900	
25	78669	24.95	24.9 - 25.1		0.781	0.900	
26	92645	25.90	25.9 - 26.1		0.787	0.900	
59	196760	58.95	58.9 - 59.1		0.780	0.900	
113	35742	113.00	112.9 - 113.1		0.727	0.900	
115	542365	115.00	114.9 - 115.1		0.726	0.900	
206	79494	206.00	205.9 - 206.1		0.769	0.900	
207	68229	206.95	206.9 - 207.1		0.729	0.900	
208	167887	207.95	207.9 - 208.1		0.746	0.900	
220			-				

X% = 5 **Integration Time [sec] =** 0.1 **Acquisition Time [sec] =** 268 **Y Axis =** Linear

Tune Parameters
Plasma Paramters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
RF Power	1600	W	Carrier Gas	0.80	L/min			
RF Matching	1.80	V	Option Gas	0.0	%			
Smpl Depth	9.0	mm	Nebulizer Pump	0.10	rps			
S/C Temp	2	℃						

Lenses Parameters

ParameterName	Value	Unit	ParameterName	V	ParameterName	Value	Unit
Extract 1	0.0	V	Omega Lens				
Extract 2	-195.0	V	Cell Entrance				
Omega Bias	-90	V	Cell Exit	-50	V		
Deflect	12.6	V					

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
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Cell Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Use Gas	false		OctP Bias	-8.0	V			
He Flow	0.0	mL/min	OctP RF	190	V			
Energy Discrimination	5.0	V						

[He]

Mass	Count (Mean)	RSD% (Actual)	RSD% (Required)
59	314568	0.46	
89	212795	0.88	
205	353719	0.65	

Mass	Replicate 1 Count	Replicate 2 Count	Replicate 3 Count	Replicate 4 Count	Replicate 5 Count
59	312491	314270	314951	314575	316551
89	211001	211501	212290	213486	215698
205	354209	352458	350411	355640	355878

Integration Time [sec] = 0.1

Tune Parameters
Plasma Paramters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
RF Power	1600	W	Carrier Gas	0.80	L/min			
RF Matching	1.80	V	Option Gas	0.0	%			
Smpl Depth	9.0	mm	Nebulizer Pump	0.10	rps			
S/C Temp	2	℃						

Lenses Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Extract 1	0.0	V	Omega Lens	8.4	V			
Extract 2	-200.0	V	Cell Entrance	-40	V			
Omega Bias	-90	V	Cell Exit	-60	V			
Deflect	2.4	V						

Cell Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Use Gas	true		OctP Bias	-18.0	V			
He Flow	4.1	mL/min	OctP RF	200	V			
Energy Discrimination	5.0	V						

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	S0	Instrumnet Name :	P7
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 12:23:08	DataFile Name :	003CALB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	-0.12	0.23	-0.12	0.00	N/A	ppb
Antimony	121-1	0.00	0.00	0.00	0.00	N/A	ppb
Arsenic	75-2	0.01	-0.02	0.01	0.00	N/A	ppb
Barium	135-1	-0.01	0.01	0.00	0.00	N/A	ppb
Barium	137-1	0.00	0.00	0.01	0.00	N/A	ppb
Beryllium	9-1	0.00	0.00	0.00	0.00	N/A	ppb
Bismuth	209-2						%
Bismuth	209-1						%
Boron	10-1	0.02	0.11	-0.13	0.00	N/A	ppb
Boron	11-1	0.09	-0.02	-0.07	0.00	N/A	ppb
Cadmium	106-1	0.06	-0.08	0.02	0.00	N/A	ppb
Cadmium	108-1	-0.04	-0.02	0.06	0.00	N/A	ppb
Cadmium	111-1	0.00	0.00	0.00	0.00	N/A	ppb
Calcium	43-1	-0.68	-1.37	2.05	0.00	N/A	ppb
Calcium	44-1	0.09	-0.24	0.15	0.00	N/A	ppb
Chromium	52-2	-0.01	0.01	0.00	0.00	N/A	ppb
Cobalt	59-2	0.00	0.00	0.00	0.00	N/A	ppb
Copper	63-2	-0.01	-0.02	0.03	0.00	N/A	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-2						cps
Erbium	164-1						cps
Gadolinium	160-2						cps
Gadolinium	160-1						cps
Holmium	165-1						%
Holmium	165-2						%
Indium	115-1						%
Indium	115-2						%
Iron	56-2	0.01	-0.02	0.01	0.00	N/A	ppb
Iron	57-2	-0.06	0.12	-0.06	0.00	N/A	ppb
Lead	206-1	-0.01	0.00	0.01	0.00	N/A	ppb
Lead	207-1	0.01	0.00	-0.01	0.00	N/A	ppb
Lead	208-1	0.00	0.00	0.00	0.00	N/A	ppb
Lithium	6-1						%
Magnesium	24-2	0.13	-0.07	-0.07	0.00	N/A	ppb
Manganese	55-2	0.00	0.00	-0.01	0.00	N/A	ppb

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	S0	Instrumnet Name :	P7
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 12:23:08	DataFile Name :	003CALB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Molybdenum	94-1	0.00	0.00	0.00	0.00	N/A	ppb
Molybdenum	95-1	-0.01	-0.01	0.02	0.00	N/A	ppb
Molybdenum	96-1	0.00	0.00	0.00	0.00	N/A	ppb
Molybdenum	97-1	0.00	0.00	0.01	0.00	N/A	ppb
Molybdenum	98-1	0.00	0.00	0.01	0.00	N/A	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.03	0.02	0.01	0.00	N/A	ppb
Phosphorus	31-2	6.80	-11.13	-5.47	-3.27		ppb
Potassium	39-2	2.35	0.30	-2.65	0.00	N/A	ppb
Rhodium	103-2						%
Rhodium	103-1						%
Scandium	45-1						%
Scandium	45-2						%
Selenium	77-2	0.00	0.00	0.00	0.00	N/A	ppb
Selenium	78-2	-0.25	0.64	-0.39	0.00	N/A	ppb
Selenium	82-1	0.36	-0.61	0.25	0.00	N/A	ppb
Silicon	28-1	0.02	-0.11	0.09	0.00	N/A	ppb
Silver	107-1	0.00	0.00	0.00	0.00	N/A	ppb
Silver	109-1	0.00	0.00	0.00	0.00	N/A	ppb
Sodium	23-2	0.41	-0.20	-0.21	0.00	N/A	ppb
Strontium	86-1	-0.07	0.06	0.01	0.00	N/A	ppb
Strontium	88-1	0.00	0.00	0.00	0.00	N/A	ppb
Sulfur	34-1	73.12	60.92	-70.89	21.05	379.33	ppb
Terbium	159-2						%
Terbium	159-1						%
Thallium	203-1	0.00	0.00	0.00	0.00	N/A	ppb
Thallium	205-1	0.00	0.00	0.00	0.00	N/A	ppb
Tin	118-1	0.00	0.00	0.00	0.00	N/A	ppb
Titanium	47-1	0.01	0.02	-0.03	0.00	N/A	ppb
Uranium	238-1	0.00	0.00	0.00	0.00	N/A	ppb
Vanadium	51-2	0.00	0.00	0.00	0.00	N/A	ppb
Yttrium	89-2						%
Yttrium	89-1						%
Zinc	66-2	0.01	-0.02	0.01	0.00	N/A	ppb
Zirconium	90-1	0.00	-0.01	0.00	0.00	N/A	ppb

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	S0	Instrumnet Name :	P7
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 12:23:08	DataFile Name :	003CALB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Zirconium	91-1	0.00	0.01	-0.01	0.00	N/A	ppb

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	S2	Instrumnet Name :	P7
Client Sample ID :	S2	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 12:30:43	DataFile Name :	005CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	19.11	18.75	21.24	19.70	6.83	ppb
Antimony	121-1	1.81	1.86	1.82	1.83	1.50	ppb
Arsenic	75-2	0.84	0.89	0.91	0.88	3.80	ppb
Barium	135-1	8.72	8.92	8.86	8.83	1.17	ppb
Barium	137-1	8.80	8.77	8.88	8.82	0.65	ppb
Beryllium	9-1	0.86	0.93	0.89	0.89	4.08	ppb
Bismuth	209-2						%
Bismuth	209-1						%
Boron	10-1	19.82	21.32	21.19	20.78	4.00	ppb
Boron	11-1	20.86	21.43	21.94	21.41	2.54	ppb
Cadmium	108-1	0.96	0.87	0.85	0.89	6.31	ppb
Cadmium	111-1	0.91	0.95	0.91	0.92	2.23	ppb
Cadmium	106-1	0.96	1.90	0.93	1.26	43.62	ppb
Calcium	43-1	437.00	429.16	438.35	434.83	1.14	ppb
Calcium	44-1	426.61	427.85	428.69	427.72	0.24	ppb
Chromium	52-2	1.93	1.94	1.91	1.93	0.90	ppb
Cobalt	59-2	0.92	0.92	0.91	0.92	0.43	ppb
Copper	63-2	2.28	2.29	2.27	2.28	0.47	ppb
Dysprosium	156-2						cps
Dysprosium	156-1						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-2						cps
Gadolinium	160-1						cps
Holmium	165-1						%
Holmium	165-2						%
Indium	115-1						%
Indium	115-2						%
Iron	57-2	46.00	44.96	45.31	45.42	1.17	ppb
Iron	56-2	44.79	45.15	44.93	44.95	0.40	ppb
Lead	206-1	0.98	0.99	0.98	0.98	0.53	ppb
Lead	207-1	0.93	0.94	0.99	0.95	3.25	ppb
Lead	208-1	0.98	0.97	0.99	0.98	1.26	ppb
Lithium	6-1						%
Magnesium	24-2	453.53	455.57	454.59	454.57	0.22	ppb
Manganese	55-2	0.87	0.96	0.95	0.93	5.33	ppb

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	S2	Instrumnet Name :	P7
Client Sample ID :	S2	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 12:30:43	DataFile Name :	005CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Molybdenum	94-1	1.78	1.77	1.72	1.76	1.69	ppb
Molybdenum	95-1	4.25	4.09	3.93	4.09	3.95	ppb
Molybdenum	96-1	3.52	3.43	3.52	3.49	1.41	ppb
Molybdenum	97-1	4.15	4.11	4.14	4.13	0.55	ppb
Molybdenum	98-1	4.09	3.98	4.01	4.03	1.49	ppb
Neodymium	150-2						cps
Neodymium	150-1						cps
Nickel	60-2	0.93	0.99	0.91	0.95	4.35	ppb
Phosphorus	31-2	1.59	-11.47	-8.04	-5.97		ppb
Potassium	39-2	440.20	435.38	432.24	435.94	0.92	ppb
Rhodium	103-2						%
Rhodium	103-1						%
Scandium	45-1						%
Scandium	45-2						%
Selenium	82-1	3.63	3.76	4.10	3.83	6.25	ppb
Selenium	77-2	5.46	4.94	4.92	5.11	6.00	ppb
Selenium	78-2	4.90	4.59	4.48	4.66	4.63	ppb
Silicon	28-1	10.52	9.87	11.01	10.47	5.46	ppb
Silver	107-1	1.20	1.17	1.22	1.20	2.04	ppb
Silver	109-1	1.18	1.22	1.23	1.21	2.14	ppb
Sodium	23-2	453.83	452.38	449.95	452.05	0.43	ppb
Strontium	86-1	0.70	0.64	0.69	0.68	5.10	ppb
Strontium	88-1	0.78	0.79	0.81	0.79	2.17	ppb
Sulfur	34-1	-159.88	-40.23	-33.71	-77.94		ppb
Terbium	159-2						%
Terbium	159-1						%
Thallium	203-1	0.86	0.85	0.87	0.86	0.99	ppb
Thallium	205-1	0.90	0.90	0.93	0.91	2.35	ppb
Tin	118-1	4.36	4.31	4.35	4.34	0.65	ppb
Titanium	47-1	4.12	4.49	4.40	4.33	4.49	ppb
Uranium	238-1	0.83	0.82	0.83	0.83	0.67	ppb
Vanadium	51-2	4.41	4.30	4.36	4.36	1.26	ppb
Yttrium	89-1						%
Yttrium	89-2						%
Zinc	66-2	2.12	2.15	2.07	2.11	1.91	ppb
Zirconium	90-1	0.77	0.72	0.71	0.73	4.56	ppb

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	S2	Instrumnet Name :	P7
Client Sample ID :	S2	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 12:30:43	DataFile Name :	005CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Zirconium	91-1	0.76	0.76	0.68	0.73	6.37	ppb

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	S3	Instrumnet Name :	P7
Client Sample ID :	S3	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 12:34:31	DataFile Name :	006CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	947.92	963.88	962.93	958.24	0.93	ppb
Antimony	121-1	42.05	41.00	39.46	40.84	3.19	ppb
Arsenic	75-2	50.25	50.08	49.82	50.05	0.43	ppb
Barium	135-1	247.56	250.32	249.35	249.08	0.56	ppb
Barium	137-1	249.43	250.84	250.28	250.18	0.29	ppb
Beryllium	9-1	50.72	50.39	50.96	50.69	0.56	ppb
Bismuth	209-1						%
Bismuth	209-2						%
Boron	10-1	48.05	50.26	48.77	49.03	2.29	ppb
Boron	11-1	48.25	49.45	49.28	48.99	1.32	ppb
Cadmium	106-1	50.95	52.41	50.93	51.43	1.65	ppb
Cadmium	108-1	51.76	51.83	52.52	52.03	0.81	ppb
Cadmium	111-1	52.09	52.24	51.88	52.07	0.34	ppb
Calcium	43-1	4879.56	4910.08	4910.85	4900.16	0.36	ppb
Calcium	44-1	4882.09	4917.86	4942.11	4914.02	0.61	ppb
Chromium	52-2	50.12	50.86	51.05	50.68	0.96	ppb
Cobalt	59-2	50.96	51.04	51.25	51.09	0.29	ppb
Copper	63-2	103.33	104.45	104.55	104.11	0.65	ppb
Dysprosium	156-2						cps
Dysprosium	156-1						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-2						cps
Gadolinium	160-1						cps
Holmium	165-2						%
Holmium	165-1						%
Indium	115-1						%
Indium	115-2						%
Iron	56-2	2494.47	2485.83	2515.43	2498.58	0.61	ppb
Iron	57-2	2470.32	2495.13	2510.38	2491.94	0.81	ppb
Lead	206-1	49.18	48.76	48.75	48.90	0.50	ppb
Lead	207-1	48.70	47.62	48.07	48.13	1.13	ppb
Lead	208-1	49.07	48.52	48.39	48.66	0.75	ppb
Lithium	6-1						%
Magnesium	24-2	5011.50	5063.15	5093.95	5056.20	0.82	ppb
Manganese	55-2	101.52	101.30	101.65	101.49	0.17	ppb

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	S3	Instrumnet Name :	P7
Client Sample ID :	S3	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 12:34:31	DataFile Name :	006CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Molybdenum	94-1	48.00	48.46	49.13	48.53	1.17	ppb
Molybdenum	95-1	48.13	48.08	47.83	48.01	0.33	ppb
Molybdenum	96-1	47.86	47.84	47.51	47.74	0.41	ppb
Molybdenum	97-1	48.03	48.27	47.66	47.99	0.64	ppb
Molybdenum	98-1	47.62	48.15	47.59	47.79	0.67	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	52.01	52.47	52.88	52.46	0.83	ppb
Phosphorus	31-2	994.35	1041.05	976.99	1004.13	3.30	ppb
Potassium	39-2	2399.01	2423.15	2423.51	2415.22	0.58	ppb
Rhodium	103-2						%
Rhodium	103-1						%
Scandium	45-1						%
Scandium	45-2						%
Selenium	77-2	56.34	43.85	49.72	49.97	12.50	ppb
Selenium	78-2	52.29	48.80	50.62	50.57	3.45	ppb
Selenium	82-1	50.26	51.71	50.82	50.93	1.43	ppb
Silicon	28-1	64.97	67.33	68.04	66.78	2.41	ppb
Silver	109-1	51.22	51.64	51.50	51.45	0.41	ppb
Silver	107-1	51.31	51.58	51.77	51.56	0.45	ppb
Sodium	23-2	5045.48	5025.75	5088.67	5053.30	0.64	ppb
Strontium	86-1	49.63	50.05	49.74	49.81	0.43	ppb
Strontium	88-1	50.24	50.85	50.75	50.62	0.64	ppb
Sulfur	34-1	628.46	827.12	790.92	748.83	14.13	ppb
Terbium	159-1						%
Terbium	159-2						%
Thallium	203-1	48.73	48.28	48.24	48.42	0.56	ppb
Thallium	205-1	49.49	49.24	49.22	49.32	0.30	ppb
Tin	118-1	49.29	49.10	49.51	49.30	0.42	ppb
Titanium	47-1	50.01	50.02	50.56	50.20	0.62	ppb
Uranium	238-1	46.76	46.52	46.60	46.63	0.26	ppb
Vanadium	51-2	50.09	50.19	50.13	50.14	0.10	ppb
Yttrium	89-2						%
Yttrium	89-1						%
Zinc	66-2	105.26	106.29	106.05	105.87	0.51	ppb
Zirconium	90-1	49.26	48.91	48.81	48.99	0.48	ppb

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	S3	Instrumnet Name :	P7
Client Sample ID :	S3	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 12:34:31	DataFile Name :	006CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Zirconium	91-1	48.50	48.82	49.37	48.90	0.90	ppb

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	S4	Instrumnet Name :	P7
Client Sample ID :	S4	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 12:38:36	DataFile Name :	007CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	2438.22	2425.22	2418.17	2427.20	0.42	ppb
Antimony	121-1	116.92	113.16	111.16	113.75	2.57	ppb
Arsenic	75-2	124.36	123.32	123.64	123.77	0.43	ppb
Barium	135-1	632.67	622.84	627.82	627.78	0.78	ppb
Barium	137-1	642.57	629.01	635.67	635.75	1.07	ppb
Beryllium	9-1	126.23	124.89	125.46	125.53	0.54	ppb
Bismuth	209-1						%
Bismuth	209-2						%
Boron	10-1	121.28	117.95	123.10	120.78	2.16	ppb
Boron	11-1	121.19	123.64	123.37	122.73	1.09	ppb
Cadmium	106-1	125.96	125.26	128.73	126.65	1.45	ppb
Cadmium	108-1	130.91	129.45	131.30	130.55	0.75	ppb
Cadmium	111-1	130.43	129.07	131.14	130.21	0.81	ppb
Calcium	43-1	12312.04	11952.28	11968.05	12077.46	1.68	ppb
Calcium	44-1	12153.82	12137.47	11917.06	12069.45	1.10	ppb
Chromium	52-2	127.07	125.69	127.86	126.87	0.86	ppb
Cobalt	59-2	126.62	125.59	128.15	126.79	1.02	ppb
Copper	63-2	258.75	257.14	260.41	258.77	0.63	ppb
Dysprosium	156-2						cps
Dysprosium	156-1						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-2						cps
Gadolinium	160-1						cps
Holmium	165-2						%
Holmium	165-1						%
Indium	115-1						%
Indium	115-2						%
Iron	56-2	6251.49	6257.52	6278.93	6262.65	0.23	ppb
Iron	57-2	6191.71	6297.39	6311.58	6266.89	1.05	ppb
Lead	206-1	122.29	122.57	122.45	122.44	0.12	ppb
Lead	207-1	121.92	120.53	121.84	121.43	0.64	ppb
Lead	208-1	122.92	122.29	123.40	122.87	0.45	ppb
Lithium	6-1						%
Magnesium	24-2	12599.53	12453.86	12579.42	12544.27	0.63	ppb
Manganese	55-2	253.63	251.88	255.35	253.62	0.68	ppb

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	S4	Instrumnet Name :	P7
Client Sample ID :	S4	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 12:38:36	DataFile Name :	007CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Molybdenum	94-1	122.95	123.99	121.95	122.96	0.83	ppb
Molybdenum	95-1	122.37	122.85	119.70	121.64	1.40	ppb
Molybdenum	96-1	119.67	121.39	118.94	120.00	1.05	ppb
Molybdenum	97-1	122.40	122.65	120.53	121.86	0.95	ppb
Molybdenum	98-1	122.17	121.07	119.45	120.90	1.13	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	130.90	130.55	132.03	131.16	0.59	ppb
Phosphorus	31-2	2547.51	2589.95	2542.95	2560.14	1.01	ppb
Potassium	39-2	6000.79	6043.40	6075.88	6040.02	0.62	ppb
Rhodium	103-2						%
Rhodium	103-1						%
Scandium	45-1						%
Scandium	45-2						%
Selenium	77-2	124.32	125.81	123.45	124.53	0.96	ppb
Selenium	78-2	123.12	129.92	132.37	128.47	3.73	ppb
Selenium	82-1	126.40	128.74	125.36	126.83	1.37	ppb
Silicon	28-1	166.56	164.15	166.70	165.80	0.87	ppb
Silver	109-1	129.16	127.86	128.68	128.57	0.51	ppb
Silver	107-1	128.47	126.95	129.47	128.30	0.99	ppb
Sodium	23-2	12627.55	12559.06	12594.81	12593.80	0.27	ppb
Strontium	86-1	123.63	124.12	123.69	123.81	0.21	ppb
Strontium	88-1	126.55	125.58	123.95	125.36	1.05	ppb
Sulfur	34-1	1986.25	1876.71	1805.95	1889.64	4.81	ppb
Terbium	159-1						%
Terbium	159-2						%
Thallium	203-1	122.23	122.37	121.79	122.13	0.25	ppb
Thallium	205-1	124.71	124.65	125.30	124.89	0.29	ppb
Tin	118-1	125.70	124.47	125.98	125.38	0.64	ppb
Titanium	47-1	125.32	123.89	124.02	124.41	0.64	ppb
Uranium	238-1	120.58	120.27	119.11	119.99	0.65	ppb
Vanadium	51-2	125.02	124.41	124.81	124.75	0.25	ppb
Yttrium	89-2						%
Yttrium	89-1						%
Zinc	66-2	262.94	260.73	262.51	262.06	0.45	ppb
Zirconium	90-1	123.31	124.78	124.20	124.10	0.60	ppb

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LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	S4	Instrumnet Name :	P7
Client Sample ID :	S4	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 12:38:36	DataFile Name :	007CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Zirconium	91-1	123.84	124.03	123.66	123.84	0.15	ppb

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	S5	Instrumnet Name :	P7
Client Sample ID :	S5	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 12:42:16	DataFile Name :	008CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	4728.89	4820.98	4841.74	4797.20	1.25	ppb
Antimony	121-1	242.82	238.54	236.62	239.33	1.33	ppb
Arsenic	75-2	245.86	253.12	252.76	250.58	1.63	ppb
Barium	135-1	1252.65	1254.35	1256.50	1254.50	0.15	ppb
Barium	137-1	1252.83	1254.31	1255.90	1254.35	0.12	ppb
Beryllium	9-1	254.66	253.01	253.80	253.82	0.33	ppb
Bismuth	209-2						%
Bismuth	209-1						%
Boron	10-1	244.33	246.99	249.72	247.01	1.09	ppb
Boron	11-1	244.50	249.55	249.07	247.71	1.13	ppb
Cadmium	106-1	249.90	254.56	254.33	252.93	1.04	ppb
Cadmium	108-1	255.87	255.29	256.23	255.80	0.19	ppb
Cadmium	111-1	258.14	259.42	260.05	259.20	0.37	ppb
Calcium	43-1	24696.11	24626.49	23966.82	24429.81	1.65	ppb
Calcium	44-1	24448.53	24437.30	23836.36	24240.73	1.44	ppb
Chromium	52-2	250.35	254.24	254.29	252.96	0.89	ppb
Cobalt	59-2	250.63	255.72	257.16	254.50	1.35	ppb
Copper	63-2	506.39	517.65	517.90	513.98	1.28	ppb
Dysprosium	156-2						cps
Dysprosium	156-1						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-2						cps
Gadolinium	160-1						cps
Holmium	165-1						%
Holmium	165-2						%
Indium	115-2						%
Indium	115-1						%
Iron	56-2	12400.42	12639.15	12682.60	12574.06	1.21	ppb
Iron	57-2	12451.43	12680.65	12665.53	12599.21	1.02	ppb
Lead	206-1	247.08	246.24	247.73	247.02	0.30	ppb
Lead	207-1	246.44	245.11	245.31	245.62	0.29	ppb
Lead	208-1	246.31	246.89	246.46	246.55	0.12	ppb
Lithium	6-1						%
Magnesium	24-2	24550.38	24830.31	25242.19	24874.29	1.40	ppb
Manganese	55-2	500.65	508.76	509.97	506.46	1.00	ppb

Reviewed By:jaswal
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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	S5	Instrumnet Name :	P7
Client Sample ID :	S5	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 12:42:16	DataFile Name :	008CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Molybdenum	94-1	247.49	244.83	249.14	247.16	0.88	ppb
Molybdenum	95-1	248.82	245.70	247.05	247.19	0.63	ppb
Molybdenum	96-1	246.26	242.26	243.53	244.02	0.84	ppb
Molybdenum	97-1	249.29	244.74	247.17	247.07	0.92	ppb
Molybdenum	98-1	247.62	242.36	244.35	244.78	1.08	ppb
Neodymium	150-2						cps
Neodymium	150-1						cps
Nickel	60-2	256.48	258.90	263.95	259.78	1.47	ppb
Phosphorus	31-2	5106.70	5020.29	5076.06	5067.68	0.86	ppb
Potassium	39-2	11990.78	11974.11	11995.12	11986.67	0.09	ppb
Rhodium	103-2						%
Rhodium	103-1						%
Scandium	45-1						%
Scandium	45-2						%
Selenium	82-1	257.24	258.73	256.86	257.61	0.38	ppb
Selenium	77-2	253.67	255.23	252.09	253.66	0.62	ppb
Selenium	78-2	251.87	257.05	254.36	254.43	1.02	ppb
Silicon	28-1	343.30	345.77	340.32	343.13	0.80	ppb
Silver	107-1	256.00	255.58	257.37	256.32	0.36	ppb
Silver	109-1	253.74	256.42	257.83	256.00	0.81	ppb
Sodium	23-2	24825.15	25174.80	25338.29	25112.75	1.04	ppb
Strontium	86-1	252.52	249.17	248.29	249.99	0.89	ppb
Strontium	88-1	253.18	248.76	252.44	251.46	0.94	ppb
Sulfur	34-1	5031.42	4762.66	4419.10	4737.73	6.48	ppb
Terbium	159-2						%
Terbium	159-1						%
Thallium	203-1	247.03	246.82	243.48	245.78	0.81	ppb
Thallium	205-1	248.45	245.13	244.26	245.95	0.90	ppb
Tin	118-1	249.73	249.54	249.56	249.61	0.04	ppb
Titanium	47-1	253.20	251.87	247.42	250.83	1.21	ppb
Uranium	238-1	246.21	243.60	241.74	243.85	0.92	ppb
Vanadium	51-2	248.90	252.27	253.08	251.42	0.88	ppb
Yttrium	89-1						%
Yttrium	89-2						%
Zinc	66-2	515.77	529.15	526.11	523.67	1.34	ppb
Zirconium	90-1	246.96	247.40	249.48	247.94	0.54	ppb

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LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	S5	Instrumnet Name :	P7
Client Sample ID :	S5	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 12:42:16	DataFile Name :	008CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Zirconium	91-1	246.62	244.39	247.43	246.15	0.64	ppb

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	S6	Instrumnet Name :	P7
Client Sample ID :	S6	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 12:45:53	DataFile Name :	009CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	9606.09	9531.10	9491.11	9542.77	0.61	ppb
Antimony	121-1	503.51	499.58	493.47	498.85	1.01	ppb
Arsenic	75-2	497.07	495.79	497.12	496.66	0.15	ppb
Barium	135-1	2507.20	2523.33	2518.69	2516.41	0.33	ppb
Barium	137-1	2523.22	2525.30	2535.13	2527.88	0.25	ppb
Beryllium	9-1	501.71	499.29	496.84	499.28	0.49	ppb
Bismuth	209-1						%
Bismuth	209-2						%
Boron	10-1	495.19	500.06	490.66	495.30	0.95	ppb
Boron	11-1	497.69	496.81	498.87	497.79	0.21	ppb
Cadmium	106-1	513.37	511.45	505.98	510.27	0.75	ppb
Cadmium	108-1	506.46	511.40	509.68	509.18	0.49	ppb
Cadmium	111-1	512.53	513.08	513.38	513.00	0.08	ppb
Calcium	43-1	48235.95	49124.54	49206.02	48855.50	1.10	ppb
Calcium	44-1	47971.76	48953.61	49495.93	48807.10	1.58	ppb
Chromium	52-2	497.55	501.80	502.40	500.58	0.53	ppb
Cobalt	59-2	498.04	505.20	502.33	501.85	0.72	ppb
Copper	63-2	1018.82	1015.29	1024.84	1019.65	0.47	ppb
Dysprosium	156-2						cps
Dysprosium	156-1						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-2						cps
Gadolinium	160-1						cps
Holmium	165-1						%
Holmium	165-2						%
Indium	115-1						%
Indium	115-2						%
Iron	56-2	24927.29	24924.12	24962.42	24937.95	0.09	ppb
Iron	57-2	24795.82	25084.59	25045.70	24975.37	0.63	ppb
Lead	208-1	497.06	494.08	499.18	496.77	0.52	ppb
Lead	206-1	501.53	496.45	499.68	499.22	0.52	ppb
Lead	207-1	493.63	493.60	498.48	495.24	0.57	ppb
Lithium	6-1						%
Magnesium	24-2	49366.13	49453.44	49507.42	49442.33	0.14	ppb
Manganese	55-2	997.62	1004.31	1009.17	1003.70	0.58	ppb

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	S6	Instrumnet Name :	P7
Client Sample ID :	S6	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 12:45:53	DataFile Name :	009CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Molybdenum	94-1	505.35	497.20	501.05	501.20	0.81	ppb
Molybdenum	95-1	505.51	494.46	498.05	499.34	1.13	ppb
Molybdenum	96-1	502.65	489.45	495.89	496.00	1.33	ppb
Molybdenum	97-1	505.95	495.27	501.46	500.90	1.07	ppb
Molybdenum	98-1	508.96	496.74	504.55	503.42	1.23	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	507.20	514.79	510.76	510.92	0.74	ppb
Phosphorus	31-2	10072.09	10077.91	10299.29	10149.76	1.28	ppb
Potassium	39-2	24026.43	24107.69	24158.72	24097.61	0.28	ppb
Rhodium	103-1						%
Rhodium	103-2						%
Scandium	45-2						%
Scandium	45-1						%
Selenium	82-1	512.99	503.05	506.66	507.57	0.99	ppb
Selenium	77-2	499.88	516.67	499.23	505.26	1.96	ppb
Selenium	78-2	492.55	502.90	501.05	498.83	1.11	ppb
Silicon	28-1	525.03	537.03	535.88	532.65	1.24	ppb
Silver	109-1	505.98	508.33	510.24	508.18	0.42	ppb
Silver	107-1	504.35	510.99	511.99	509.11	0.82	ppb
Sodium	23-2	49820.68	49958.21	49496.58	49758.49	0.48	ppb
Strontium	88-1	507.55	501.98	507.84	505.79	0.65	ppb
Strontium	86-1	500.60	494.93	498.65	498.06	0.58	ppb
Sulfur	34-1	9889.24	10190.08	10122.16	10067.16	1.57	ppb
Terbium	159-2						%
Terbium	159-1						%
Thallium	203-1	504.61	501.19	500.43	502.08	0.44	ppb
Thallium	205-1	504.20	501.59	497.64	501.14	0.66	ppb
Tin	118-1	504.03	510.57	500.96	505.19	0.97	ppb
Titanium	47-1	499.75	506.94	504.76	503.82	0.73	ppb
Uranium	238-1	495.24	495.10	497.74	496.03	0.30	ppb
Vanadium	51-2	498.72	499.02	501.59	499.78	0.32	ppb
Yttrium	89-2						%
Yttrium	89-1						%
Zinc	66-2	1013.96	1021.66	1023.75	1019.79	0.51	ppb
Zirconium	90-1	512.30	499.65	503.76	505.23	1.28	ppb

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	S6	Instrumnet Name :	P7
Client Sample ID :	S6	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 12:45:53	DataFile Name :	009CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Zirconium	91-1	501.71	496.49	502.71	500.30	0.67	ppb

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	S7	Instrumnet Name :	P7
Client Sample ID :	S7	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 12:49:24	DataFile Name :	010CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	18947.39	19000.39	18967.50	18971.76	0.14	ppb
Antimony	121-1	1018.48	1004.66	992.17	1005.11	1.31	ppb
Arsenic	75-2	996.44	1001.63	1006.96	1001.68	0.53	ppb
Barium	135-1	5035.98	4980.91	4954.22	4990.37	0.84	ppb
Barium	137-1	5003.19	5012.42	4935.24	4983.62	0.85	ppb
Beryllium	9-1	1003.51	994.97	999.42	999.30	0.43	ppb
Bismuth	209-1						%
Bismuth	209-2						%
Boron	10-1	993.46	1000.09	1017.78	1003.78	1.25	ppb
Boron	11-1	996.84	995.48	1013.99	1002.10	1.03	ppb
Cadmium	106-1	999.72	996.76	985.08	993.85	0.78	ppb
Cadmium	108-1	1002.64	995.87	980.99	993.17	1.12	ppb
Cadmium	111-1	1002.93	988.48	979.93	990.45	1.17	ppb
Calcium	43-1	96421.77	98857.69	99706.46	98328.64	1.73	ppb
Calcium	44-1	95494.01	97403.43	98197.02	97031.49	1.43	ppb
Chromium	52-2	994.14	1009.69	992.27	998.70	0.96	ppb
Cobalt	59-2	992.83	1001.69	998.48	997.67	0.45	ppb
Copper	63-2	1992.68	1986.66	1976.79	1985.38	0.40	ppb
Dysprosium	156-2						cps
Dysprosium	156-1						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-2						cps
Gadolinium	160-1						cps
Holmium	165-2						%
Holmium	165-1						%
Indium	115-1						%
Indium	115-2						%
Iron	56-2	49257.43	49821.15	49623.61	49567.40	0.58	ppb
Iron	57-2	49707.57	49894.35	49905.16	49835.69	0.22	ppb
Lead	206-1	1000.29	1020.84	983.41	1001.51	1.87	ppb
Lead	207-1	1002.66	1019.81	989.59	1004.02	1.51	ppb
Lead	208-1	999.03	1016.66	992.73	1002.81	1.24	ppb
Lithium	6-1						%
Magnesium	24-2	97679.57	98107.26	98188.37	97991.73	0.28	ppb
Manganese	55-2	1982.68	1989.67	2015.68	1996.01	0.87	ppb

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	S7	Instrumnet Name :	P7
Client Sample ID :	S7	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 12:49:24	DataFile Name :	010CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Molybdenum	94-1	998.05	998.35	1004.97	1000.46	0.39	ppb
Molybdenum	95-1	1005.56	1001.66	997.45	1001.56	0.40	ppb
Molybdenum	96-1	1009.94	994.90	1007.89	1004.24	0.81	ppb
Molybdenum	97-1	1005.96	998.31	998.08	1000.78	0.45	ppb
Molybdenum	98-1	1001.71	1002.38	996.59	1000.23	0.32	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	984.42	995.51	993.68	991.20	0.60	ppb
Phosphorus	31-2	19765.53	20096.41	19839.49	19900.47	0.87	ppb
Potassium	39-2	47478.83	47537.62	47840.55	47619.00	0.41	ppb
Rhodium	103-2						%
Rhodium	103-1						%
Scandium	45-1						%
Scandium	45-2						%
Selenium	77-2	978.29	1001.71	1009.54	996.51	1.63	ppb
Selenium	78-2	996.75	997.45	1002.85	999.02	0.33	ppb
Selenium	82-1	992.28	993.01	996.85	994.05	0.25	ppb
Silicon	28-1	935.09	960.23	968.03	954.45	1.80	ppb
Silver	109-1	1002.77	997.67	981.24	993.89	1.13	ppb
Silver	107-1	997.04	993.97	989.11	993.37	0.40	ppb
Sodium	23-2	99285.10	99144.92	98759.65	99063.22	0.27	ppb
Strontium	86-1	995.88	1008.81	998.70	1001.13	0.68	ppb
Strontium	88-1	1002.72	996.76	990.51	996.66	0.61	ppb
Sulfur	34-1	19571.40	20397.19	20393.94	20120.84	2.36	ppb
Terbium	159-1						%
Terbium	159-2						%
Thallium	203-1	998.81	1013.33	989.23	1000.46	1.21	ppb
Thallium	205-1	1000.38	1013.33	987.76	1000.49	1.28	ppb
Tin	118-1	1011.73	996.09	984.67	997.50	1.36	ppb
Titanium	47-1	984.79	1002.63	1006.43	997.95	1.16	ppb
Uranium	238-1	1005.28	1009.17	998.50	1004.32	0.54	ppb
Vanadium	51-2	992.61	1008.24	998.51	999.79	0.79	ppb
Yttrium	89-2						%
Yttrium	89-1						%
Zinc	66-2	1977.59	1982.79	1986.78	1982.39	0.23	ppb
Zirconium	90-1	998.13	998.65	997.41	998.06	0.06	ppb

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LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	S7	Instrumnet Name :	P7
Client Sample ID :	S7	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 12:49:24	DataFile Name :	010CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Zirconium	91-1	997.26	1001.41	1004.36	1001.01	0.36	ppb

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	S8	Instrumnet Name :	P7
Client Sample ID :	S8	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 12:52:51	DataFile Name :	011CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	99393.35	101081.06	100316.84	100263.75	0.84	ppb
Antimony	121-1	5.20	5.65	6.16	5.67	8.42	ppb
Arsenic	75-2	1.56	1.55	1.84	1.65	9.96	ppb
Barium	135-1	2.07	1.94	1.92	1.98	4.27	ppb
Barium	137-1	2.09	1.98	1.92	2.00	4.19	ppb
Beryllium	9-1	0.16	0.14	0.16	0.16	6.43	ppb
Bismuth	209-1						%
Bismuth	209-2						%
Boron	10-1	31.84	29.73	26.60	29.39	8.96	ppb
Boron	11-1	31.84	29.07	27.47	29.46	7.50	ppb
Cadmium	106-1	0.45	-0.46	-0.84	-0.28		ppb
Cadmium	108-1	0.25	0.33	0.23	0.27	19.43	ppb
Cadmium	111-1	0.21	0.19	0.13	0.18	24.57	ppb
Calcium	43-1	508952.58	494817.04	497696.96	500488.86	1.49	ppb
Calcium	44-1	507161.56	493768.77	501357.63	500762.65	1.34	ppb
Chromium	52-2	22.41	22.62	22.31	22.45	0.72	ppb
Cobalt	59-2	1.26	1.25	1.23	1.25	1.04	ppb
Copper	63-2	2.34	2.41	2.29	2.35	2.58	ppb
Dysprosium	156-2						cps
Dysprosium	156-1						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-2						cps
Gadolinium	160-1						cps
Holmium	165-2						%
Holmium	165-1						%
Indium	115-1						%
Indium	115-2						%
Iron	56-2	252042.31	250943.75	247280.11	250088.72	1.00	ppb
Iron	57-2	249801.70	251076.07	249212.29	250030.02	0.38	ppb
Lead	206-1	1.77	1.80	1.80	1.79	1.16	ppb
Lead	207-1	1.70	1.67	1.63	1.67	1.90	ppb
Lead	208-1	1.76	1.76	1.72	1.75	1.12	ppb
Lithium	6-1						%
Magnesium	24-2	501122.82	502288.16	497975.27	500462.08	0.45	ppb
Manganese	55-2	7.77	7.71	7.77	7.75	0.42	ppb

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	S8	Instrumnet Name :	P7
Client Sample ID :	S8	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 12:52:51	DataFile Name :	011CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Molybdenum	94-1	1.70	1.87	2.03	1.87	8.88	ppb
Molybdenum	95-1	5.03	5.41	5.94	5.46	8.40	ppb
Molybdenum	96-1	4.70	5.15	5.55	5.13	8.28	ppb
Molybdenum	97-1	5.00	5.46	5.88	5.45	8.08	ppb
Molybdenum	98-1	4.88	5.23	5.88	5.33	9.53	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	12.28	12.51	12.10	12.30	1.68	ppb
Phosphorus	31-2	30.42	28.56	32.05	30.34	5.77	ppb
Potassium	39-2	250386.49	250326.34	251082.16	250598.33	0.17	ppb
Rhodium	103-2						%
Rhodium	103-1						%
Scandium	45-1						%
Scandium	45-2						%
Selenium	77-2	0.54	2.43	1.86	1.61	60.48	ppb
Selenium	78-2	2.82	2.03	1.90	2.25	22.02	ppb
Selenium	82-1	0.80	0.94	0.14	0.63	67.94	ppb
Silicon	28-1	29.01	25.34	24.49	26.28	9.14	ppb
Silver	109-1	0.21	0.17	0.18	0.19	9.94	ppb
Silver	107-1	0.22	0.18	0.17	0.19	14.72	ppb
Sodium	23-2	503161.93	500859.64	496587.54	500203.04	0.67	ppb
Strontium	86-1	27.97	27.74	28.11	27.94	0.66	ppb
Strontium	88-1	28.53	28.43	28.43	28.46	0.19	ppb
Sulfur	34-1	-487.25	-616.22	-623.67	-575.72		ppb
Terbium	159-1						%
Terbium	159-2						%
Thallium	203-1	0.51	0.46	0.41	0.46	10.24	ppb
Thallium	205-1	0.52	0.47	0.43	0.47	8.94	ppb
Tin	118-1	1.08	1.23	1.26	1.19	7.98	ppb
Titanium	47-1	10.21	1.14	4.30	5.22	88.19	ppb
Uranium	238-1	0.27	0.25	0.23	0.25	8.22	ppb
Vanadium	51-2	0.32	0.34	0.33	0.33	2.47	ppb
Yttrium	89-2						%
Yttrium	89-1						%
Zinc	66-2	15.74	15.42	15.29	15.48	1.48	ppb
Zirconium	90-1	0.28	0.30	0.30	0.29	4.35	ppb

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LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	S8	Instrumnet Name :	P7
Client Sample ID :	S8	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 12:52:51	DataFile Name :	011CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Zirconium	91-1	0.32	0.30	0.31	0.31	3.09	ppb

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	ICV01	Instrumnet Name :	P7
Client Sample ID :	ICV01	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 12:56:35	DataFile Name :	012ICV01.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	475.81	481.98	476.14	477.97	0.73	ppb
Antimony	121-1	202.63	200.11	193.82	198.85	2.28	ppb
Arsenic	75-2	197.41	196.33	196.86	196.87	0.27	ppb
Barium	135-1	98.16	99.35	96.39	97.97	1.52	ppb
Barium	137-1	98.57	99.11	97.21	98.30	1.00	ppb
Beryllium	9-1	95.87	94.08	93.06	94.34	1.50	ppb
Bismuth	209-1						%
Bismuth	209-2						%
Boron	10-1	562.51	563.78	549.52	558.61	1.41	ppb
Boron	11-1	564.21	567.97	556.63	562.94	1.03	ppb
Cadmium	106-1	190.43	193.05	185.52	189.67	2.02	ppb
Cadmium	108-1	155.00	150.52	152.64	152.72	1.47	ppb
Cadmium	111-1	103.04	104.16	102.86	103.35	0.68	ppb
Calcium	43-1	2222.02	2190.89	2173.32	2195.41	1.12	ppb
Calcium	44-1	2088.20	2078.49	2059.07	2075.25	0.71	ppb
Chromium	52-2	94.21	95.34	95.68	95.08	0.81	ppb
Cobalt	59-2	96.84	98.12	98.83	97.93	1.03	ppb
Copper	63-2	96.94	99.66	99.54	98.71	1.56	ppb
Dysprosium	156-2						cps
Dysprosium	156-1						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-2						cps
Gadolinium	160-1						cps
Holmium	165-1						%
Holmium	165-2						%
Indium	115-2						%
Indium	115-1						%
Iron	56-2	967.82	980.07	983.30	977.06	0.84	ppb
Iron	57-2	973.84	969.05	990.63	977.84	1.16	ppb
Lead	206-1	194.78	194.32	192.59	193.90	0.60	ppb
Lead	207-1	184.72	184.29	182.93	183.98	0.51	ppb
Lead	208-1	191.38	190.28	189.20	190.29	0.57	ppb
Lithium	6-1						%
Magnesium	24-2	1184.52	1206.25	1187.10	1192.62	1.00	ppb
Manganese	55-2	96.49	98.01	98.71	97.74	1.16	ppb

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On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	ICV01	Instrumnet Name :	P7
Client Sample ID :	ICV01	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 12:56:35	DataFile Name :	012ICV01.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Molybdenum	94-1	514.99	521.90	517.87	518.25	0.67	ppb
Molybdenum	95-1	515.69	519.44	513.08	516.07	0.62	ppb
Molybdenum	96-1	525.12	524.07	517.17	522.12	0.83	ppb
Molybdenum	97-1	515.20	516.45	508.84	513.50	0.79	ppb
Molybdenum	98-1	522.74	523.58	515.38	520.57	0.87	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	100.05	101.62	101.10	100.92	0.80	ppb
Phosphorus	31-2	6.69	12.71	5.90	8.43	44.19	ppb
Potassium	39-2	1919.64	1920.58	1932.08	1924.10	0.36	ppb
Rhodium	103-2						%
Rhodium	103-1						%
Scandium	45-2						%
Scandium	45-1						%
Selenium	77-2	206.71	199.87	199.04	201.87	2.09	ppb
Selenium	78-2	207.56	203.98	202.29	204.61	1.31	ppb
Selenium	82-1	204.45	203.97	204.25	204.22	0.12	ppb
Silicon	28-1	476.91	484.86	478.37	480.05	0.88	ppb
Silver	109-1	101.46	101.66	101.22	101.45	0.21	ppb
Silver	107-1	101.99	102.19	100.94	101.71	0.66	ppb
Sodium	23-2	1989.60	2018.54	2010.74	2006.29	0.75	ppb
Strontium	86-1	457.48	456.45	459.28	457.74	0.31	ppb
Strontium	88-1	464.97	465.01	464.96	464.98	0.01	ppb
Sulfur	34-1	-846.24	-903.44	-1072.84	-940.84		ppb
Terbium	159-2						%
Terbium	159-1						%
Thallium	203-1	192.73	192.17	190.99	191.96	0.46	ppb
Thallium	205-1	196.04	195.91	194.55	195.50	0.42	ppb
Tin	118-1	538.55	535.37	536.89	536.94	0.30	ppb
Titanium	47-1	517.36	521.11	515.43	517.97	0.56	ppb
Uranium	238-1	499.03	496.69	492.38	496.03	0.68	ppb
Vanadium	51-2	95.48	94.88	95.42	95.26	0.35	ppb
Yttrium	89-2						%
Yttrium	89-1						%
Zinc	66-2	202.68	209.37	206.70	206.25	1.63	ppb
Zirconium	90-1	517.93	522.76	520.90	520.53	0.47	ppb

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	ICV01	Instrumnet Name :	P7
Client Sample ID :	ICV01	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 12:56:35	DataFile Name :	012ICV01.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Zirconium	91-1	510.79	512.35	516.54	513.22	0.58	ppb

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	ICB01	Instrumnet Name :	P7
Client Sample ID :	ICB01	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 13:02:34	DataFile Name :	013CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	0.75	0.65	1.25	0.89	36.01	ppb
Antimony	121-1	0.85	1.00	1.23	1.03	18.58	ppb
Arsenic	75-2	0.22	0.29	0.24	0.25	16.05	ppb
Barium	135-1	0.01	0.00	0.00	0.00	137.91	ppb
Barium	137-1	0.00	0.01	0.00	0.00	128.86	ppb
Beryllium	9-1	0.04	0.02	0.03	0.03	22.29	ppb
Bismuth	209-1						%
Bismuth	209-2						%
Boron	10-1	5.28	4.99	5.39	5.22	3.97	ppb
Boron	11-1	5.49	5.47	5.49	5.48	0.19	ppb
Cadmium	106-1	-0.82	-0.16	-0.34	-0.44		ppb
Cadmium	108-1	0.02	0.06	0.02	0.03	66.65	ppb
Cadmium	111-1	-0.01	0.00	0.00	0.00		ppb
Calcium	43-1	3.77	4.14	3.01	3.64	15.74	ppb
Calcium	44-1	1.19	0.87	2.19	1.42	48.47	ppb
Chromium	52-2	0.00	0.00	0.01	0.01	82.23	ppb
Cobalt	59-2	0.00	0.00	0.00	0.00	11.68	ppb
Copper	63-2	-0.52	-0.55	-0.46	-0.51		ppb
Dysprosium	156-2						cps
Dysprosium	156-1						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-2						cps
Gadolinium	160-1						cps
Holmium	165-2						%
Holmium	165-1						%
Indium	115-1						%
Indium	115-2						%
Iron	56-2	2.29	2.20	2.26	2.25	1.92	ppb
Iron	57-2	1.89	1.88	3.27	2.35	33.93	ppb
Lead	206-1	0.09	0.09	0.07	0.08	9.53	ppb
Lead	207-1	0.08	0.07	0.07	0.07	11.57	ppb
Lead	208-1	0.09	0.08	0.08	0.08	10.54	ppb
Lithium	6-1						%
Magnesium	24-2	3.00	2.62	3.23	2.95	10.45	ppb
Manganese	55-2	0.00	0.00	-0.01	-0.01		ppb

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	ICB01	Instrumnet Name :	P7
Client Sample ID :	ICB01	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 13:02:34	DataFile Name :	013CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Molybdenum	94-1	0.13	0.18	0.23	0.18	30.35	ppb
Molybdenum	95-1	0.40	0.52	0.72	0.55	29.85	ppb
Molybdenum	96-1	0.30	0.45	0.62	0.46	34.96	ppb
Molybdenum	97-1	0.34	0.51	0.74	0.53	37.72	ppb
Molybdenum	98-1	0.37	0.52	0.78	0.56	37.17	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.02	-0.03	0.00	-0.02		ppb
Phosphorus	31-2	-2.06	9.61	9.32	5.62	118.32	ppb
Potassium	39-2	18.88	14.69	14.32	15.96	15.86	ppb
Rhodium	103-2						%
Rhodium	103-1						%
Scandium	45-1						%
Scandium	45-2						%
Selenium	77-2	0.75	1.02	0.25	0.68	57.80	ppb
Selenium	78-2	-0.29	0.43	0.63	0.26	186.73	ppb
Selenium	82-1	0.19	0.20	-0.61	-0.07		ppb
Silicon	28-1	-1.01	0.03	-0.48	-0.49		ppb
Silver	109-1	0.01	0.01	0.01	0.01	34.26	ppb
Silver	107-1	0.01	0.00	0.01	0.01	30.91	ppb
Sodium	23-2	35.51	32.63	33.99	34.04	4.22	ppb
Strontium	86-1	-0.03	-0.02	-0.04	-0.03		ppb
Strontium	88-1	0.00	0.00	0.00	0.00	46.01	ppb
Sulfur	34-1	-920.31	-792.23	-782.45	-831.66		ppb
Terbium	159-1						%
Terbium	159-2						%
Thallium	203-1	0.03	0.04	0.03	0.03	12.00	ppb
Thallium	205-1	0.04	0.03	0.04	0.04	9.68	ppb
Tin	118-1	0.12	0.19	0.26	0.19	34.88	ppb
Titanium	47-1	0.02	-0.02	0.03	0.01	336.58	ppb
Uranium	238-1	0.01	0.00	0.00	0.00	26.37	ppb
Vanadium	51-2	0.01	0.00	0.00	0.00	86.65	ppb
Yttrium	89-2						%
Yttrium	89-1						%
Zinc	66-2	0.04	0.09	0.09	0.07	38.24	ppb
Zirconium	90-1	0.02	0.02	0.02	0.02	19.44	ppb

Reviewed By:jaswal
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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	ICB01	Instrumnet Name :	P7
Client Sample ID :	ICB01	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 13:02:34	DataFile Name :	013CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Zirconium	91-1	0.02	0.02	0.03	0.02	30.53	ppb

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	ICSA01	Instrumnet Name :	P7
Client Sample ID :	ICSA01	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 13:06:04	DataFile Name :	014ICSA01.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	90845.74	91217.78	91548.10	91203.87	0.39	ppb
Antimony	121-1	1.57	1.64	1.72	1.64	4.45	ppb
Arsenic	75-2	0.41	0.42	0.43	0.42	3.23	ppb
Barium	135-1	1.41	1.43	1.49	1.44	3.02	ppb
Barium	137-1	1.44	1.48	1.50	1.47	2.10	ppb
Beryllium	9-1	0.31	0.24	0.26	0.27	14.46	ppb
Bismuth	209-1						%
Bismuth	209-2						%
Boron	10-1	5.15	4.71	4.41	4.76	7.81	ppb
Boron	11-1	4.89	4.89	4.91	4.90	0.26	ppb
Cadmium	106-1	-0.72	-0.07	-0.57	-0.46		ppb
Cadmium	108-1	13.05	14.12	13.68	13.62	3.95	ppb
Cadmium	111-1	0.66	0.59	0.65	0.63	6.24	ppb
Calcium	43-1	94792.09	95325.55	94237.09	94784.91	0.57	ppb
Calcium	44-1	94828.46	94360.32	95011.14	94733.30	0.35	ppb
Chromium	52-2	19.26	19.28	19.29	19.27	0.07	ppb
Cobalt	59-2	1.11	1.12	1.12	1.12	0.51	ppb
Copper	63-2	7.67	7.53	7.59	7.60	0.95	ppb
Dysprosium	156-2						cps
Dysprosium	156-1						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-2						cps
Gadolinium	160-1						cps
Holmium	165-2						%
Holmium	165-1						%
Indium	115-1						%
Indium	115-2						%
Iron	56-2	95948.12	96483.99	96121.49	96184.53	0.28	ppb
Iron	57-2	96361.14	96460.16	96168.39	96329.90	0.15	ppb
Lead	206-1	4.56	4.60	4.50	4.55	1.15	ppb
Lead	207-1	3.84	3.93	3.85	3.87	1.29	ppb
Lead	208-1	4.16	4.17	4.11	4.15	0.73	ppb
Lithium	6-1						%
Magnesium	24-2	96293.77	96757.10	96354.21	96468.36	0.26	ppb
Manganese	55-2	8.02	7.93	7.92	7.96	0.72	ppb

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	ICSA01	Instrumnet Name :	P7
Client Sample ID :	ICSA01	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 13:06:04	DataFile Name :	014ICSA01.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Molybdenum	94-1	576.46	582.23	583.15	580.61	0.62	ppb
Molybdenum	95-1	1890.32	1939.08	1934.37	1921.26	1.40	ppb
Molybdenum	96-1	1583.39	1593.41	1608.27	1595.02	0.78	ppb
Molybdenum	97-1	1928.00	1932.08	1950.33	1936.80	0.61	ppb
Molybdenum	98-1	1898.32	1932.58	1914.20	1915.03	0.90	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	5.35	5.27	5.33	5.32	0.84	ppb
Phosphorus	31-2	98613.95	99193.62	98642.19	98816.59	0.33	ppb
Potassium	39-2	94843.80	94819.57	94123.72	94595.69	0.43	ppb
Rhodium	103-2						%
Rhodium	103-1						%
Scandium	45-1						%
Scandium	45-2						%
Selenium	77-2	0.26	0.52	1.04	0.61	65.44	ppb
Selenium	78-2	0.03	0.53	0.80	0.45	86.22	ppb
Selenium	82-1	-0.50	-1.70	0.10	-0.70		ppb
Silicon	28-1	24.49	23.94	24.49	24.31	1.31	ppb
Silver	109-1	0.10	0.12	0.12	0.11	8.89	ppb
Silver	107-1	0.09	0.09	0.12	0.10	15.76	ppb
Sodium	23-2	97045.98	97906.01	97939.11	97630.37	0.52	ppb
Strontium	86-1	27.73	28.14	28.15	28.00	0.86	ppb
Strontium	88-1	28.18	28.37	28.52	28.36	0.60	ppb
Sulfur	34-1	69016.91	69576.17	71202.78	69931.95	1.62	ppb
Terbium	159-1						%
Terbium	159-2						%
Thallium	203-1	0.05	0.05	0.05	0.05	6.22	ppb
Thallium	205-1	0.04	0.05	0.05	0.05	9.50	ppb
Tin	118-1	0.23	0.25	0.25	0.24	6.08	ppb
Titanium	47-1	1976.36	1956.72	1963.56	1965.55	0.51	ppb
Uranium	238-1	0.04	0.03	0.04	0.04	3.57	ppb
Vanadium	51-2	0.18	0.19	0.18	0.18	3.94	ppb
Yttrium	89-2						%
Yttrium	89-1						%
Zinc	66-2	11.68	11.62	11.53	11.61	0.65	ppb
Zirconium	90-1	0.25	0.27	0.28	0.27	4.08	ppb

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LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	ICSA01	Instrumnet Name :	P7
Client Sample ID :	ICSA01	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 13:06:04	DataFile Name :	014ICSA01.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Zirconium	91-1	0.25	0.25	0.29	0.26	9.01	ppb

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	ICSAB01	Instrumnet Name :	P7
Client Sample ID :	ICSAB01	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 13:09:30	DataFile Name :	015ICSB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	90641.55	91697.35	91465.21	91268.03	0.61	ppb
Antimony	121-1	20.26	20.14	19.87	20.09	0.97	ppb
Arsenic	75-2	19.95	19.51	19.83	19.76	1.15	ppb
Barium	135-1	21.00	21.26	21.05	21.10	0.66	ppb
Barium	137-1	21.39	21.64	21.16	21.40	1.12	ppb
Beryllium	9-1	20.15	20.12	19.77	20.01	1.08	ppb
Bismuth	209-1						%
Bismuth	209-2						%
Boron	10-1	57.24	57.68	56.30	57.07	1.24	ppb
Boron	11-1	56.76	57.31	56.40	56.82	0.81	ppb
Cadmium	106-1	26.09	23.69	24.94	24.91	4.82	ppb
Cadmium	108-1	37.03	37.13	36.66	36.94	0.67	ppb
Cadmium	111-1	20.23	19.88	19.96	20.02	0.90	ppb
Calcium	43-1	95484.35	93324.28	94414.63	94407.75	1.14	ppb
Calcium	44-1	95310.02	93683.78	93923.23	94305.68	0.93	ppb
Chromium	52-2	37.96	38.03	38.46	38.15	0.70	ppb
Cobalt	59-2	20.37	20.39	20.43	20.39	0.15	ppb
Copper	63-2	26.79	27.10	26.83	26.91	0.62	ppb
Dysprosium	156-2						cps
Dysprosium	156-1						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-2						cps
Gadolinium	160-1						cps
Holmium	165-1						%
Holmium	165-2						%
Indium	115-2						%
Indium	115-1						%
Iron	56-2	94760.32	96421.47	95257.02	95479.60	0.89	ppb
Iron	57-2	95934.32	96805.09	95983.74	96241.05	0.51	ppb
Lead	206-1	24.54	24.57	24.92	24.68	0.86	ppb
Lead	207-1	22.33	21.99	22.98	22.43	2.25	ppb
Lead	208-1	23.30	23.24	23.67	23.41	0.99	ppb
Lithium	6-1						%
Magnesium	24-2	96138.59	96839.89	96903.23	96627.24	0.44	ppb
Manganese	55-2	27.40	27.40	27.47	27.42	0.15	ppb

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	ICSAB01	Instrumnet Name :	P7
Client Sample ID :	ICSAB01	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 13:09:30	DataFile Name :	015ICSB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Molybdenum	94-1	627.77	633.47	624.25	628.50	0.74	ppb
Molybdenum	95-1	1958.60	1958.03	1971.50	1962.71	0.39	ppb
Molybdenum	96-1	1643.91	1649.62	1640.08	1644.54	0.29	ppb
Molybdenum	97-1	2004.29	1995.02	1977.50	1992.27	0.68	ppb
Molybdenum	98-1	1964.80	1979.25	1970.69	1971.58	0.37	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	24.91	24.77	24.33	24.67	1.23	ppb
Phosphorus	31-2	97209.47	98973.45	99099.01	98427.31	1.07	ppb
Potassium	39-2	94423.73	95535.13	94619.11	94859.32	0.63	ppb
Rhodium	103-2						%
Rhodium	103-1						%
Scandium	45-1						%
Scandium	45-2						%
Selenium	77-2	23.41	15.93	17.23	18.85	21.20	ppb
Selenium	78-2	21.18	19.78	19.00	19.99	5.53	ppb
Selenium	82-1	20.08	19.12	18.96	19.39	3.12	ppb
Silicon	28-1	90.76	88.79	89.01	89.52	1.20	ppb
Silver	109-1	18.58	18.75	18.79	18.71	0.59	ppb
Silver	107-1	18.62	18.54	18.58	18.58	0.22	ppb
Sodium	23-2	96716.36	97648.88	97184.19	97183.15	0.48	ppb
Strontium	86-1	73.07	72.52	73.05	72.88	0.42	ppb
Strontium	88-1	74.01	73.89	74.14	74.01	0.17	ppb
Sulfur	34-1	70038.26	69073.78	68352.81	69154.95	1.22	ppb
Terbium	159-1						%
Terbium	159-2						%
Thallium	203-1	19.73	19.74	19.73	19.73	0.02	ppb
Thallium	205-1	19.91	20.13	20.37	20.14	1.12	ppb
Tin	118-1	51.48	51.44	50.86	51.26	0.68	ppb
Titanium	47-1	2017.69	1999.47	1993.79	2003.65	0.62	ppb
Uranium	238-1	49.97	49.51	49.91	49.80	0.49	ppb
Vanadium	51-2	19.20	19.43	19.46	19.36	0.75	ppb
Yttrium	89-2						%
Yttrium	89-1						%
Zinc	66-2	30.88	31.37	31.44	31.23	0.99	ppb
Zirconium	90-1	50.92	51.29	50.71	50.98	0.58	ppb

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On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	ICSAB01	Instrumnet Name :	P7
Client Sample ID :	ICSAB01	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 13:09:30	DataFile Name :	015ICSB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Zirconium	91-1	50.25	51.44	50.74	50.81	1.18	ppb

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	CCV63	Instrumnet Name :	P7
Client Sample ID :	CCV63	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 13:12:56	DataFile Name :	016CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	9418.60	9501.21	9581.65	9500.49	0.86	ppb
Antimony	121-1	504.79	499.99	501.57	502.12	0.49	ppb
Arsenic	75-2	498.36	492.49	498.43	496.43	0.69	ppb
Barium	135-1	2516.85	2519.58	2555.05	2530.49	0.84	ppb
Barium	137-1	2497.96	2493.32	2555.84	2515.71	1.38	ppb
Beryllium	9-1	497.89	492.36	491.71	493.99	0.69	ppb
Bismuth	209-2						%
Bismuth	209-1						%
Boron	10-1	490.82	496.16	491.58	492.85	0.59	ppb
Boron	11-1	492.61	496.05	492.79	493.81	0.39	ppb
Cadmium	111-1	504.17	506.31	513.40	507.96	0.95	ppb
Cadmium	106-1	494.68	496.71	498.51	496.63	0.39	ppb
Cadmium	108-1	498.76	503.34	502.05	501.38	0.47	ppb
Calcium	43-1	47949.97	48379.55	47675.65	48001.72	0.74	ppb
Calcium	44-1	48616.61	47762.57	48155.92	48178.37	0.89	ppb
Chromium	52-2	494.13	498.84	497.39	496.78	0.49	ppb
Cobalt	59-2	488.11	492.12	494.84	491.69	0.69	ppb
Copper	63-2	997.43	1011.76	1001.72	1003.64	0.73	ppb
Dysprosium	156-2						cps
Dysprosium	156-1						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-2						cps
Gadolinium	160-1						cps
Holmium	165-1						%
Holmium	165-2						%
Indium	115-2						%
Indium	115-1						%
Iron	56-2	24891.06	25087.60	24940.95	24973.20	0.41	ppb
Iron	57-2	24455.66	24798.30	24953.33	24735.76	1.03	ppb
Lead	206-1	490.40	493.91	491.82	492.04	0.36	ppb
Lead	207-1	487.16	490.22	488.31	488.56	0.32	ppb
Lead	208-1	492.90	493.07	491.72	492.56	0.15	ppb
Lithium	6-1						%
Magnesium	24-2	49130.12	49567.66	49821.67	49506.48	0.71	ppb
Manganese	55-2	998.88	1013.30	1012.27	1008.15	0.80	ppb

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	CCV63	Instrumnet Name :	P7
Client Sample ID :	CCV63	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 13:12:56	DataFile Name :	016CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Molybdenum	94-1	488.20	492.44	503.16	494.60	1.56	ppb
Molybdenum	96-1	487.15	485.95	512.03	495.05	2.97	ppb
Molybdenum	97-1	491.87	494.14	499.83	495.28	0.83	ppb
Molybdenum	98-1	497.43	501.56	506.68	501.89	0.92	ppb
Molybdenum	95-1	488.78	489.59	502.73	493.70	1.59	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	495.56	502.37	502.80	500.24	0.81	ppb
Phosphorus	31-2	9924.41	10062.16	9965.94	9984.17	0.71	ppb
Potassium	39-2	24318.75	24349.76	24637.79	24435.43	0.72	ppb
Rhodium	103-2						%
Rhodium	103-1						%
Scandium	45-2						%
Scandium	45-1						%
Selenium	82-1	491.32	493.22	503.71	496.08	1.35	ppb
Selenium	77-2	479.88	501.80	509.91	497.20	3.13	ppb
Selenium	78-2	495.74	497.16	508.28	500.39	1.37	ppb
Silicon	28-1	516.49	519.59	514.47	516.85	0.50	ppb
Silver	109-1	508.15	509.55	518.96	512.22	1.15	ppb
Silver	107-1	505.96	511.60	510.41	509.32	0.58	ppb
Sodium	23-2	49227.31	49676.16	50222.48	49708.65	1.00	ppb
Strontium	86-1	489.06	489.62	501.84	493.51	1.46	ppb
Strontium	88-1	500.94	505.65	507.38	504.66	0.66	ppb
Sulfur	34-1	8940.92	9030.34	8754.85	8908.70	1.58	ppb
Terbium	159-2						%
Terbium	159-1						%
Thallium	203-1	494.38	497.97	500.64	497.66	0.63	ppb
Thallium	205-1	493.12	502.36	500.07	498.52	0.97	ppb
Tin	118-1	503.91	506.06	512.37	507.44	0.87	ppb
Titanium	47-1	493.90	495.74	496.20	495.28	0.25	ppb
Uranium	238-1	487.46	489.16	486.78	487.80	0.25	ppb
Vanadium	51-2	494.80	499.06	500.08	497.98	0.56	ppb
Yttrium	89-1						%
Yttrium	89-2						%
Zinc	66-2	994.19	1002.35	1009.16	1001.90	0.75	ppb
Zirconium	90-1	491.65	493.01	499.33	494.66	0.83	ppb

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	CCV63	Instrumnet Name :	P7
Client Sample ID :	CCV63	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 13:12:56	DataFile Name :	016CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Zirconium	91-1	481.94	489.06	491.34	487.45	1.01	ppb

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	CCB63	Instrumnet Name :	P7
Client Sample ID :	CCB63	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 13:19:53	DataFile Name :	017CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	0.88	0.87	1.01	0.92	8.95	ppb
Antimony	121-1	0.77	1.04	1.29	1.03	24.93	ppb
Arsenic	75-2	0.13	0.22	0.21	0.19	26.32	ppb
Barium	135-1	0.05	0.01	0.01	0.02	92.19	ppb
Barium	137-1	0.03	0.00	0.01	0.01	85.45	ppb
Beryllium	9-1	0.03	0.03	0.05	0.03	34.55	ppb
Bismuth	209-2						%
Bismuth	209-1						%
Boron	10-1	5.69	6.36	6.52	6.19	7.07	ppb
Boron	11-1	5.90	5.77	5.78	5.82	1.26	ppb
Cadmium	108-1	0.07	0.02	-0.03	0.02	251.68	ppb
Cadmium	111-1	-0.02	-0.01	-0.03	-0.02		ppb
Cadmium	106-1	-1.13	-0.84	-1.52	-1.16		ppb
Calcium	43-1	6.66	-1.27	2.36	2.58	153.84	ppb
Calcium	44-1	2.91	-2.38	-2.72	-0.73		ppb
Chromium	52-2	-0.01	0.00	-0.01	-0.01		ppb
Cobalt	59-2	0.00	0.00	0.00	0.00	65.08	ppb
Copper	63-2	-0.31	-0.28	-0.34	-0.31		ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-2						cps
Erbium	164-1						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-2						%
Holmium	165-1						%
Indium	115-1						%
Indium	115-2						%
Iron	56-2	1.59	1.61	1.56	1.58	1.63	ppb
Iron	57-2	1.45	0.81	1.51	1.25	31.05	ppb
Lead	206-1	0.06	0.04	0.05	0.05	23.45	ppb
Lead	207-1	0.04	0.04	0.04	0.04	5.91	ppb
Lead	208-1	0.05	0.05	0.05	0.05	2.17	ppb
Lithium	6-1						%
Magnesium	24-2	1.08	1.20	0.91	1.06	13.96	ppb
Manganese	55-2	0.00	0.00	-0.01	0.00		ppb

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	CCB63	Instrumnet Name :	P7
Client Sample ID :	CCB63	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 13:19:53	DataFile Name :	017CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Molybdenum	94-1	0.14	0.18	0.26	0.19	31.78	ppb
Molybdenum	95-1	0.46	0.63	0.75	0.62	23.93	ppb
Molybdenum	96-1	0.35	0.44	0.65	0.48	31.63	ppb
Molybdenum	97-1	0.42	0.54	0.79	0.59	32.04	ppb
Molybdenum	98-1	0.42	0.59	0.73	0.58	27.46	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.04	-0.02	0.01	-0.01		ppb
Phosphorus	31-2	2.59	-0.50	-1.39	0.23	902.85	ppb
Potassium	39-2	14.50	11.64	9.13	11.76	22.86	ppb
Rhodium	103-1						%
Rhodium	103-2						%
Scandium	45-1						%
Scandium	45-2						%
Selenium	82-1	-0.45	-0.86	-0.18	-0.49		ppb
Selenium	77-2	0.25	0.25	0.77	0.43	69.81	ppb
Selenium	78-2	0.16	0.97	1.12	0.75	69.21	ppb
Silicon	28-1	-3.14	-3.17	-2.90	-3.07		ppb
Silver	107-1	0.02	0.02	0.01	0.02	21.22	ppb
Silver	109-1	0.02	0.02	0.02	0.02	18.11	ppb
Sodium	23-2	17.69	16.05	15.72	16.49	6.41	ppb
Strontium	86-1	0.01	-0.04	-0.06	-0.03		ppb
Strontium	88-1	0.02	0.00	0.00	0.01	105.66	ppb
Sulfur	34-1	-1515.58	-1428.83	-1386.56	-1443.65		ppb
Terbium	159-1						%
Terbium	159-2						%
Thallium	203-1	0.03	0.03	0.03	0.03	10.11	ppb
Thallium	205-1	0.04	0.04	0.04	0.04	5.45	ppb
Tin	118-1	0.07	0.10	0.12	0.10	28.86	ppb
Titanium	47-1	0.06	0.01	0.05	0.04	68.81	ppb
Uranium	238-1	0.00	0.00	0.00	0.00		ppb
Vanadium	51-2	0.00	0.00	0.00	0.00	101.77	ppb
Yttrium	89-1						%
Yttrium	89-2						%
Zinc	66-2	0.00	0.07	0.03	0.03	117.41	ppb
Zirconium	90-1	0.03	0.02	0.01	0.02	38.83	ppb

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LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	CCB63	Instrumnet Name :	P7
Client Sample ID :	CCB63	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 13:19:53	DataFile Name :	017CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Zirconium	91-1	0.01	0.01	0.02	0.01	55.36	ppb

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	CRI	Instrumnet Name :	P7
Client Sample ID :	CRI	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 13:23:22	DataFile Name :	018SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	17.87	16.47	17.38	17.24	4.14	ppb
Antimony	121-1	2.12	2.20	2.25	2.19	2.98	ppb
Arsenic	75-2	1.00	0.98	0.99	0.99	0.77	ppb
Barium	135-1	8.51	8.48	8.80	8.60	2.09	ppb
Barium	137-1	8.66	8.55	8.72	8.64	0.99	ppb
Beryllium	9-1	0.85	0.85	0.91	0.87	3.84	ppb
Bismuth	209-1						%
Bismuth	209-2						%
Boron	10-1	24.99	24.19	23.93	24.37	2.27	ppb
Boron	11-1	24.93	24.27	25.03	24.74	1.67	ppb
Cadmium	106-1	0.67	0.46	-0.43	0.23	250.69	ppb
Cadmium	108-1	0.85	1.10	1.03	0.99	13.23	ppb
Cadmium	111-1	0.92	0.92	0.94	0.93	1.43	ppb
Calcium	43-1	415.45	420.38	416.04	417.29	0.65	ppb
Calcium	44-1	412.49	412.81	410.97	412.09	0.24	ppb
Chromium	52-2	1.90	1.89	1.88	1.89	0.71	ppb
Cobalt	59-2	0.90	0.88	0.89	0.89	1.20	ppb
Copper	63-2	1.71	1.85	1.81	1.79	4.04	ppb
Dysprosium	156-2						cps
Dysprosium	156-1						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-2						cps
Gadolinium	160-1						cps
Holmium	165-2						%
Holmium	165-1						%
Indium	115-1						%
Indium	115-2						%
Iron	56-2	44.33	44.51	44.07	44.30	0.50	ppb
Iron	57-2	43.89	45.58	42.73	44.07	3.25	ppb
Lead	206-1	0.94	0.96	0.89	0.93	4.25	ppb
Lead	207-1	0.91	0.95	0.94	0.94	2.51	ppb
Lead	208-1	0.93	0.95	0.93	0.94	1.35	ppb
Lithium	6-1						%
Magnesium	24-2	434.04	436.16	435.65	435.28	0.25	ppb
Manganese	55-2	0.90	0.84	0.84	0.86	3.78	ppb

Reviewed By:jaswal
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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	CRI	Instrumnet Name :	P7
Client Sample ID :	CRI	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 13:23:22	DataFile Name :	018SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Molybdenum	94-1	1.90	1.91	1.87	1.89	0.97	ppb
Molybdenum	95-1	4.38	4.44	4.51	4.44	1.45	ppb
Molybdenum	96-1	3.72	3.75	3.78	3.75	0.89	ppb
Molybdenum	97-1	4.37	4.26	4.52	4.39	2.97	ppb
Molybdenum	98-1	4.42	4.34	4.43	4.40	1.05	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.92	0.96	0.99	0.96	3.44	ppb
Phosphorus	31-2	8.69	0.15	10.46	6.43	85.64	ppb
Potassium	39-2	430.76	435.49	434.16	433.47	0.56	ppb
Rhodium	103-2						%
Rhodium	103-1						%
Scandium	45-1						%
Scandium	45-2						%
Selenium	77-2	3.07	4.35	3.60	3.67	17.47	ppb
Selenium	78-2	6.39	5.15	4.89	5.48	14.66	ppb
Selenium	82-1	4.26	4.35	4.00	4.20	4.27	ppb
Silicon	28-1	6.60	5.84	5.92	6.12	6.84	ppb
Silver	109-1	1.18	1.19	1.21	1.19	1.48	ppb
Silver	107-1	1.19	1.18	1.21	1.19	0.89	ppb
Sodium	23-2	454.57	455.26	456.33	455.39	0.19	ppb
Strontium	86-1	0.73	0.65	0.71	0.70	5.51	ppb
Strontium	88-1	0.77	0.77	0.78	0.77	0.66	ppb
Sulfur	34-1	-1308.08	-1357.74	-1434.40	-1366.74		ppb
Terbium	159-1						%
Terbium	159-2						%
Thallium	203-1	0.89	0.91	0.88	0.89	1.72	ppb
Thallium	205-1	0.88	0.90	0.88	0.89	1.20	ppb
Tin	118-1	4.26	4.32	4.29	4.29	0.67	ppb
Titanium	47-1	4.14	4.42	4.18	4.24	3.51	ppb
Uranium	238-1	0.75	0.77	0.78	0.77	1.64	ppb
Vanadium	51-2	4.37	4.31	4.32	4.33	0.81	ppb
Yttrium	89-2						%
Yttrium	89-1						%
Zinc	66-2	2.00	2.15	1.94	2.03	5.22	ppb
Zirconium	90-1	0.80	0.78	0.76	0.78	2.22	ppb

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	CRI	Instrumnet Name :	P7
Client Sample ID :	CRI	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 13:23:22	DataFile Name :	018SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Zirconium	91-1	0.83	0.74	0.78	0.78	5.75	ppb

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	PB98150BL	Instrumnet Name :	P7
Client Sample ID :	PB98150BL	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 13:26:51	DataFile Name :	019CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	0.18	0.32	0.08	0.19	64.66	ppb
Antimony	121-1	0.16	0.19	0.22	0.19	16.80	ppb
Arsenic	75-2	0.05	0.07	0.10	0.07	32.37	ppb
Barium	135-1	-0.01	0.00	0.00	0.00		ppb
Barium	137-1	-0.01	-0.02	-0.01	-0.01		ppb
Beryllium	9-1	0.00	0.01	0.01	0.00	138.22	ppb
Bismuth	209-1						%
Bismuth	209-2						%
Boron	10-1	3.87	3.09	2.87	3.28	16.14	ppb
Boron	11-1	3.75	3.35	3.29	3.46	7.35	ppb
Cadmium	106-1	-1.18	-0.68	-0.33	-0.73		ppb
Cadmium	108-1	-0.02	0.02	-0.01	0.00		ppb
Cadmium	111-1	-0.02	-0.02	-0.01	-0.02		ppb
Calcium	43-1	-4.23	-2.40	-0.99	-2.54		ppb
Calcium	44-1	-3.72	-3.50	-4.60	-3.94		ppb
Chromium	52-2	0.00	0.00	0.01	0.00	166.24	ppb
Cobalt	59-2	-0.01	0.00	-0.01	-0.01		ppb
Copper	63-2	-0.27	-0.27	-0.24	-0.26		ppb
Dysprosium	156-2						cps
Dysprosium	156-1						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-2						cps
Gadolinium	160-1						cps
Holmium	165-2						%
Holmium	165-1						%
Indium	115-1						%
Indium	115-2						%
Iron	56-2	0.48	0.47	0.46	0.47	2.70	ppb
Iron	57-2	0.40	-0.09	0.18	0.17	147.77	ppb
Lead	206-1	0.04	0.01	0.03	0.03	57.22	ppb
Lead	207-1	0.01	0.02	0.01	0.02	26.51	ppb
Lead	208-1	0.02	0.02	0.03	0.02	24.93	ppb
Lithium	6-1						%
Magnesium	24-2	0.29	0.24	0.47	0.33	36.52	ppb
Manganese	55-2	-0.02	-0.01	0.01	0.00		ppb

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	PB98150BL	Instrumnet Name :	P7
Client Sample ID :	PB98150BL	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 13:26:51	DataFile Name :	019CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Molybdenum	94-1	0.05	0.06	0.11	0.07	45.34	ppb
Molybdenum	95-1	0.14	0.18	0.32	0.21	44.58	ppb
Molybdenum	96-1	0.10	0.19	0.25	0.18	42.49	ppb
Molybdenum	97-1	0.16	0.20	0.33	0.23	37.78	ppb
Molybdenum	98-1	0.15	0.22	0.30	0.22	33.03	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.04	-0.02	-0.03	-0.03		ppb
Phosphorus	31-2	-1.66	-1.32	12.01	3.01	259.11	ppb
Potassium	39-2	8.12	6.46	10.32	8.30	23.33	ppb
Rhodium	103-2						%
Rhodium	103-1						%
Scandium	45-1						%
Scandium	45-2						%
Selenium	77-2	0.00	0.25	0.25	0.17	86.60	ppb
Selenium	78-2	0.49	0.12	0.20	0.27	72.47	ppb
Selenium	82-1	-0.58	0.22	-1.03	-0.46		ppb
Silicon	28-1	-3.56	-4.35	-4.29	-4.07		ppb
Silver	109-1	0.01	0.01	0.02	0.01	26.12	ppb
Silver	107-1	0.02	0.02	0.01	0.02	15.60	ppb
Sodium	23-2	12.14	11.25	10.86	11.42	5.75	ppb
Strontium	86-1	-0.04	-0.04	-0.01	-0.03		ppb
Strontium	88-1	0.00	0.00	0.00	0.00		ppb
Sulfur	34-1	-1157.86	-1256.08	-1211.02	-1208.32		ppb
Terbium	159-1						%
Terbium	159-2						%
Thallium	203-1	0.01	0.00	0.01	0.01	59.19	ppb
Thallium	205-1	0.01	0.01	0.01	0.01	5.86	ppb
Tin	118-1	0.03	0.03	0.04	0.04	19.24	ppb
Titanium	47-1	0.01	0.02	0.01	0.01	47.46	ppb
Uranium	238-1	0.00	0.00	0.00	0.00		ppb
Vanadium	51-2	0.00	0.00	0.00	0.00		ppb
Yttrium	89-2						%
Yttrium	89-1						%
Zinc	66-2	-0.02	0.09	0.00	0.03	235.40	ppb
Zirconium	90-1	0.01	0.00	0.01	0.01	66.79	ppb

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LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	PB98150BL	Instrumnet Name :	P7
Client Sample ID :	PB98150BL	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 13:26:51	DataFile Name :	019CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Zirconium	91-1	0.02	0.00	0.02	0.01	65.84	ppb

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	PB98150BS	Instrumnet Name :	P7
Client Sample ID :	PB98150BS	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 13:30:20	DataFile Name :	020LCSE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	36.40	36.42	40.36	37.73	6.05	ppb
Antimony	121-1	3.86	4.00	3.99	3.95	1.95	ppb
Arsenic	75-2	2.09	1.97	2.05	2.04	2.98	ppb
Barium	135-1	18.46	18.76	18.12	18.45	1.71	ppb
Barium	137-1	18.50	18.62	18.57	18.56	0.34	ppb
Beryllium	9-1	2.05	2.05	2.03	2.04	0.66	ppb
Bismuth	209-2						%
Bismuth	209-1						%
Boron	10-1	18.65	19.76	20.86	19.76	5.60	ppb
Boron	11-1	19.59	20.52	20.14	20.08	2.33	ppb
Cadmium	106-1	-0.15	-0.06	0.19	-0.01		ppb
Cadmium	108-1	1.08	1.27	1.17	1.17	8.02	ppb
Cadmium	111-1	0.99	0.98	1.06	1.01	4.08	ppb
Calcium	43-1	911.08	921.14	927.14	919.78	0.88	ppb
Calcium	44-1	905.49	928.78	907.52	913.93	1.41	ppb
Chromium	52-2	3.90	3.89	4.08	3.96	2.68	ppb
Cobalt	59-2	2.02	1.97	2.00	1.99	1.15	ppb
Copper	63-2	3.76	3.84	3.73	3.78	1.54	ppb
Dysprosium	156-2						cps
Dysprosium	156-1						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-2						cps
Gadolinium	160-1						cps
Holmium	165-1						%
Holmium	165-2						%
Indium	115-2						%
Indium	115-1						%
Iron	56-2	381.16	380.85	383.95	381.99	0.45	ppb
Iron	57-2	384.51	388.29	381.85	384.88	0.84	ppb
Lead	206-1	1.86	1.94	1.88	1.90	2.20	ppb
Lead	207-1	1.83	1.85	1.86	1.85	0.74	ppb
Lead	208-1	1.87	1.89	1.84	1.87	1.27	ppb
Lithium	6-1						%
Magnesium	24-2	966.37	964.85	962.14	964.45	0.22	ppb
Manganese	55-2	1.96	1.98	1.98	1.97	0.72	ppb

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	PB98150BS	Instrumnet Name :	P7
Client Sample ID :	PB98150BS	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 13:30:20	DataFile Name :	020LCSE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Molybdenum	94-1	3.86	3.97	3.77	3.86	2.52	ppb
Molybdenum	95-1	8.87	8.94	8.61	8.81	1.99	ppb
Molybdenum	96-1	7.46	7.51	7.42	7.47	0.62	ppb
Molybdenum	97-1	9.00	8.79	9.07	8.95	1.65	ppb
Molybdenum	98-1	8.85	8.80	8.72	8.79	0.75	ppb
Neodymium	150-2						cps
Neodymium	150-1						cps
Nickel	60-2	2.04	2.05	1.93	2.01	3.41	ppb
Phosphorus	31-2	1.65	-3.65	4.52	0.84	492.91	ppb
Potassium	39-2	926.48	934.13	934.83	931.82	0.50	ppb
Rhodium	103-1						%
Rhodium	103-2						%
Scandium	45-1						%
Scandium	45-2						%
Selenium	82-1	9.36	10.34	8.35	9.35	10.64	ppb
Selenium	77-2	7.13	6.65	10.26	8.01	24.47	ppb
Selenium	78-2	9.41	10.23	9.55	9.73	4.51	ppb
Silicon	28-1	6.57	8.08	7.50	7.38	10.32	ppb
Silver	107-1	1.95	1.97	1.94	1.95	0.72	ppb
Silver	109-1	1.99	2.00	1.97	1.99	0.93	ppb
Sodium	23-2	960.67	956.55	949.56	955.59	0.59	ppb
Strontium	86-1	1.59	1.60	1.59	1.60	0.26	ppb
Strontium	88-1	1.65	1.63	1.64	1.64	0.67	ppb
Sulfur	34-1	-1195.05	-974.70	-1020.66	-1063.47		ppb
Terbium	159-2						%
Terbium	159-1						%
Thallium	203-1	1.80	1.88	1.87	1.85	2.33	ppb
Thallium	205-1	1.87	1.88	1.87	1.87	0.41	ppb
Tin	118-1	9.21	9.21	9.07	9.16	0.90	ppb
Titanium	47-1	9.46	9.36	9.04	9.29	2.36	ppb
Uranium	238-1	1.68	1.69	1.67	1.68	0.59	ppb
Vanadium	51-2	9.31	9.15	9.40	9.29	1.36	ppb
Yttrium	89-1						%
Yttrium	89-2						%
Zinc	66-2	4.46	4.31	4.14	4.30	3.75	ppb
Zirconium	90-1	1.75	1.70	1.66	1.70	2.69	ppb

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	PB98150BS	Instrumnet Name :	P7
Client Sample ID :	PB98150BS	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 13:30:20	DataFile Name :	020LCSE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Zirconium	91-1	1.64	1.74	1.65	1.68	3.17	ppb

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On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2578-01	Instrumnet Name :	P7
Client Sample ID :	MH0AT5	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 13:33:50	DataFile Name :	021SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	7.16	7.49	8.03	7.56	5.84	ppb
Antimony	121-1	0.72	0.72	0.79	0.74	5.01	ppb
Arsenic	75-2	11.24	11.18	10.73	11.05	2.53	ppb
Barium	135-1	62.31	61.80	61.36	61.82	0.76	ppb
Barium	137-1	62.45	62.04	62.12	62.21	0.35	ppb
Beryllium	9-1	0.00	0.01	0.01	0.01	118.73	ppb
Bismuth	209-2						%
Bismuth	209-1						%
Boron	10-1	322.93	324.02	327.35	324.77	0.71	ppb
Boron	11-1	328.48	327.63	331.64	329.25	0.64	ppb
Cadmium	111-1	0.02	0.01	0.03	0.02	59.47	ppb
Cadmium	106-1	-1.08	-1.72	-1.07	-1.29		ppb
Cadmium	108-1	0.18	0.17	0.17	0.18	0.51	ppb
Calcium	43-1	138590.74	139218.68	140862.24	139557.22	0.84	ppb
Calcium	44-1	138165.50	137034.19	139770.04	138323.25	0.99	ppb
Chromium	52-2	0.63	0.67	0.65	0.65	3.15	ppb
Cobalt	59-2	0.21	0.23	0.22	0.22	5.30	ppb
Copper	63-2	2.32	2.34	2.41	2.36	1.89	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-2						cps
Erbium	164-1						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-2						%
Holmium	165-1						%
Indium	115-1						%
Indium	115-2						%
Iron	56-2	19.02	19.49	19.10	19.20	1.32	ppb
Iron	57-2	41.05	41.98	44.54	42.52	4.25	ppb
Lead	206-1	0.18	0.17	0.17	0.17	2.04	ppb
Lead	207-1	0.17	0.13	0.13	0.15	13.43	ppb
Lead	208-1	0.16	0.16	0.16	0.16	2.10	ppb
Lithium	6-1						%
Magnesium	24-2	65941.63	66694.50	66321.94	66319.36	0.57	ppb
Manganese	55-2	43.33	44.28	44.15	43.92	1.17	ppb

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2578-01	Instrumnet Name :	P7
Client Sample ID :	MH0AT5	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 13:33:50	DataFile Name :	021SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Molybdenum	94-1	4.48	4.40	4.31	4.40	1.97	ppb
Molybdenum	95-1	14.22	13.83	13.73	13.93	1.89	ppb
Molybdenum	96-1	11.82	11.62	11.45	11.63	1.59	ppb
Molybdenum	97-1	14.19	14.03	13.96	14.06	0.82	ppb
Molybdenum	98-1	14.09	13.91	13.73	13.91	1.29	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	1.12	1.10	1.08	1.10	2.20	ppb
Phosphorus	31-2	505.14	543.77	542.19	530.37	4.12	ppb
Potassium	39-2	17398.38	17343.37	17363.28	17368.34	0.16	ppb
Rhodium	103-1						%
Rhodium	103-2						%
Scandium	45-1						%
Scandium	45-2						%
Selenium	82-1	2.72	3.93	4.18	3.61	21.57	ppb
Selenium	77-2	4.73	2.93	6.81	4.82	40.26	ppb
Selenium	78-2	3.98	4.42	3.43	3.94	12.54	ppb
Silicon	28-1	11459.03	11487.76	11756.34	11567.71	1.42	ppb
Silver	109-1	0.27	0.34	0.37	0.32	15.80	ppb
Silver	107-1	0.29	0.35	0.39	0.34	14.80	ppb
Sodium	23-2	231658.47	229776.72	231282.45	230905.88	0.43	ppb
Strontium	86-1	1098.17	1091.35	1096.70	1095.41	0.33	ppb
Strontium	88-1	1112.12	1098.31	1091.15	1100.53	0.97	ppb
Sulfur	34-1	87325.77	86740.25	89095.26	87720.43	1.40	ppb
Terbium	159-2						%
Terbium	159-1						%
Thallium	203-1	0.04	0.04	0.04	0.04	4.91	ppb
Thallium	205-1	0.05	0.05	0.04	0.05	12.08	ppb
Tin	118-1	0.11	0.13	0.16	0.13	18.58	ppb
Titanium	47-1	0.92	1.04	1.08	1.02	8.46	ppb
Uranium	238-1	15.14	14.82	14.81	14.93	1.26	ppb
Vanadium	51-2	4.91	5.05	5.02	4.99	1.52	ppb
Yttrium	89-1						%
Yttrium	89-2						%
Zinc	66-2	10.27	10.11	10.93	10.44	4.15	ppb
Zirconium	90-1	0.26	0.27	0.30	0.28	7.91	ppb

Reviewed By:jaswal
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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2578-01	Instrumnet Name :	P7
Client Sample ID :	MH0AT5	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 13:33:50	DataFile Name :	021SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Zirconium	91-1	0.27	0.26	0.28	0.27	4.41	ppb

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2578-02	Instrumnet Name :	P7
Client Sample ID :	MH0AT6	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 13:37:22	DataFile Name :	022SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	6.63	8.45	8.31	7.79	12.97	ppb
Antimony	121-1	0.63	0.64	0.67	0.65	3.51	ppb
Arsenic	75-2	10.44	10.62	10.38	10.48	1.18	ppb
Barium	135-1	61.02	60.72	60.88	60.87	0.25	ppb
Barium	137-1	60.57	61.54	61.19	61.10	0.80	ppb
Beryllium	9-1	0.00	-0.01	0.00	0.00		ppb
Bismuth	209-1						%
Bismuth	209-2						%
Boron	10-1	289.65	293.76	290.76	291.39	0.73	ppb
Boron	11-1	292.11	295.83	293.28	293.74	0.65	ppb
Cadmium	106-1	-0.17	-0.69	-0.76	-0.54		ppb
Cadmium	108-1	0.16	0.10	0.21	0.16	36.47	ppb
Cadmium	111-1	0.05	0.04	0.03	0.04	28.31	ppb
Calcium	43-1	123312.74	122530.83	122867.59	122903.72	0.32	ppb
Calcium	44-1	122247.02	122511.37	122671.76	122476.72	0.18	ppb
Chromium	52-2	0.59	0.57	0.60	0.59	3.24	ppb
Cobalt	59-2	0.23	0.24	0.22	0.23	4.44	ppb
Copper	63-2	2.81	2.91	2.83	2.85	1.84	ppb
Dysprosium	156-2						cps
Dysprosium	156-1						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-2						cps
Gadolinium	160-1						cps
Holmium	165-2						%
Holmium	165-1						%
Indium	115-1						%
Indium	115-2						%
Iron	56-2	24.35	24.14	24.40	24.30	0.56	ppb
Iron	57-2	45.42	47.92	47.32	46.89	2.78	ppb
Lead	206-1	0.31	0.35	0.36	0.34	7.82	ppb
Lead	207-1	0.31	0.30	0.29	0.30	3.32	ppb
Lead	208-1	0.32	0.32	0.32	0.32	0.96	ppb
Lithium	6-1						%
Magnesium	24-2	55777.33	56078.73	55520.27	55792.11	0.50	ppb
Manganese	55-2	33.44	33.73	33.34	33.50	0.60	ppb

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2578-02	Instrumnet Name :	P7
Client Sample ID :	MH0AT6	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 13:37:22	DataFile Name :	022SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Molybdenum	94-1	3.60	3.59	3.72	3.64	1.97	ppb
Molybdenum	95-1	11.62	11.45	11.50	11.52	0.77	ppb
Molybdenum	96-1	9.57	9.34	9.35	9.42	1.40	ppb
Molybdenum	97-1	11.76	11.27	11.47	11.50	2.17	ppb
Molybdenum	98-1	11.30	11.50	11.45	11.42	0.91	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	1.13	1.13	1.12	1.13	0.42	ppb
Phosphorus	31-2	833.61	824.95	875.86	844.80	3.22	ppb
Potassium	39-2	16595.12	16672.67	16677.27	16648.35	0.28	ppb
Rhodium	103-2						%
Rhodium	103-1						%
Scandium	45-1						%
Scandium	45-2						%
Selenium	77-2	3.92	3.70	5.51	4.38	22.68	ppb
Selenium	78-2	3.93	2.78	2.97	3.23	19.09	ppb
Selenium	82-1	2.32	2.72	4.15	3.06	31.36	ppb
Silicon	28-1	10002.98	10044.77	10006.30	10018.02	0.23	ppb
Silver	109-1	0.34	0.35	0.34	0.34	1.23	ppb
Silver	107-1	0.32	0.36	0.36	0.34	6.35	ppb
Sodium	23-2	206639.90	208422.97	208002.53	207688.47	0.45	ppb
Strontium	86-1	910.44	906.29	913.79	910.17	0.41	ppb
Strontium	88-1	906.96	906.33	915.95	909.75	0.59	ppb
Sulfur	34-1	72654.88	71710.58	71982.71	72116.05	0.67	ppb
Terbium	159-1						%
Terbium	159-2						%
Thallium	203-1	0.04	0.04	0.04	0.04	2.65	ppb
Thallium	205-1	0.04	0.04	0.04	0.04	2.82	ppb
Tin	118-1	0.23	0.24	0.26	0.24	5.73	ppb
Titanium	47-1	1.20	1.14	1.30	1.21	6.57	ppb
Uranium	238-1	11.82	11.83	11.85	11.83	0.15	ppb
Vanadium	51-2	4.07	4.13	4.21	4.14	1.73	ppb
Yttrium	89-2						%
Yttrium	89-1						%
Zinc	66-2	27.49	27.95	27.34	27.59	1.14	ppb
Zirconium	90-1	0.14	0.17	0.17	0.16	11.56	ppb

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
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LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2578-02	Instrumnet Name :	P7
Client Sample ID :	MH0AT6	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 13:37:22	DataFile Name :	022SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Zirconium	91-1	0.17	0.20	0.15	0.17	14.04	ppb

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2578-03	Instrumnet Name :	P7
Client Sample ID :	MH0AT6D	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 13:40:53	DataFile Name :	023SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	10.21	8.07	6.75	8.34	20.97	ppb
Antimony	121-1	0.65	0.65	0.67	0.66	1.17	ppb
Arsenic	75-2	10.57	10.64	10.41	10.54	1.12	ppb
Barium	135-1	60.53	61.41	61.03	60.99	0.73	ppb
Barium	137-1	61.78	61.58	61.40	61.59	0.30	ppb
Beryllium	9-1	0.00	0.01	-0.01	0.00		ppb
Bismuth	209-1						%
Bismuth	209-2						%
Boron	10-1	288.27	288.14	287.02	287.81	0.24	ppb
Boron	11-1	288.19	290.85	294.80	291.28	1.14	ppb
Cadmium	106-1	-0.78	-1.43	-1.50	-1.24		ppb
Cadmium	108-1	0.10	0.17	0.12	0.13	30.05	ppb
Cadmium	111-1	0.04	0.02	0.00	0.02	75.85	ppb
Calcium	43-1	122024.15	123746.97	123436.42	123069.18	0.75	ppb
Calcium	44-1	121592.51	122977.18	121666.35	122078.68	0.64	ppb
Chromium	52-2	0.59	0.61	0.61	0.60	1.63	ppb
Cobalt	59-2	0.23	0.22	0.22	0.23	2.46	ppb
Copper	63-2	3.01	3.03	3.13	3.06	2.01	ppb
Dysprosium	156-2						cps
Dysprosium	156-1						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-2						cps
Gadolinium	160-1						cps
Holmium	165-2						%
Holmium	165-1						%
Indium	115-1						%
Indium	115-2						%
Iron	56-2	24.52	24.47	24.85	24.61	0.84	ppb
Iron	57-2	44.34	46.18	46.92	45.82	2.89	ppb
Lead	206-1	0.29	0.31	0.31	0.30	3.05	ppb
Lead	207-1	0.27	0.26	0.27	0.27	1.05	ppb
Lead	208-1	0.29	0.29	0.29	0.29	0.74	ppb
Lithium	6-1						%
Magnesium	24-2	55631.41	55720.20	56451.07	55934.23	0.80	ppb
Manganese	55-2	33.51	33.94	33.57	33.67	0.70	ppb

Reviewed By:jaswal
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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2578-03	Instrumnet Name :	P7
Client Sample ID :	MH0AT6D	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 13:40:53	DataFile Name :	023SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Molybdenum	94-1	3.50	3.54	3.59	3.54	1.37	ppb
Molybdenum	95-1	11.56	11.68	11.44	11.56	1.04	ppb
Molybdenum	96-1	9.42	9.61	9.63	9.55	1.22	ppb
Molybdenum	97-1	11.43	11.37	11.35	11.39	0.39	ppb
Molybdenum	98-1	11.25	11.26	11.36	11.29	0.55	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	1.14	1.19	1.17	1.16	2.20	ppb
Phosphorus	31-2	935.97	834.59	884.37	884.98	5.73	ppb
Potassium	39-2	16767.35	16698.24	16725.66	16730.41	0.21	ppb
Rhodium	103-2						%
Rhodium	103-1						%
Scandium	45-1						%
Scandium	45-2						%
Selenium	77-2	6.36	4.75	3.41	4.84	30.46	ppb
Selenium	78-2	4.56	2.87	3.32	3.58	24.48	ppb
Selenium	82-1	3.67	2.89	3.11	3.22	12.45	ppb
Silicon	28-1	10040.34	10060.00	10164.42	10088.25	0.66	ppb
Silver	109-1	0.28	0.31	0.32	0.30	6.27	ppb
Silver	107-1	0.31	0.30	0.29	0.30	3.12	ppb
Sodium	23-2	207951.34	208585.25	209985.35	208840.65	0.50	ppb
Strontium	86-1	906.61	917.77	920.78	915.05	0.82	ppb
Strontium	88-1	910.17	910.97	912.99	911.38	0.16	ppb
Sulfur	34-1	72536.75	73428.54	72771.20	72912.16	0.63	ppb
Terbium	159-1						%
Terbium	159-2						%
Thallium	203-1	0.04	0.03	0.02	0.03	23.06	ppb
Thallium	205-1	0.04	0.03	0.03	0.04	8.15	ppb
Tin	118-1	0.23	0.25	0.26	0.25	5.13	ppb
Titanium	47-1	1.28	1.26	1.26	1.26	1.03	ppb
Uranium	238-1	11.90	11.86	11.97	11.91	0.50	ppb
Vanadium	51-2	4.18	4.22	4.22	4.21	0.56	ppb
Yttrium	89-2						%
Yttrium	89-1						%
Zinc	66-2	29.17	29.34	29.09	29.20	0.43	ppb
Zirconium	90-1	0.11	0.12	0.11	0.11	4.42	ppb

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2578-03	Instrumnet Name :	P7
Client Sample ID :	MH0AT6D	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 13:40:53	DataFile Name :	023SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Zirconium	91-1	0.13	0.12	0.14	0.13	7.09	ppb

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2578-02LX5	Instrumnet Name :	P7
Client Sample ID :	MH0AT6L	Dilution Factor :	5
Date & Time Acquired ::	2017-04-18 13:44:25	DataFile Name :	024SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	12.68	14.93	12.83	13.48	9.34	ppb
Antimony	121-1	0.13	0.16	0.17	0.15	13.24	ppb
Arsenic	75-2	1.93	2.07	2.28	2.09	8.48	ppb
Barium	135-1	12.15	11.67	12.02	11.95	2.08	ppb
Barium	137-1	12.09	11.95	12.18	12.07	0.93	ppb
Beryllium	9-1	0.01	-0.01	0.01	0.00	374.78	ppb
Bismuth	209-2						%
Bismuth	209-1						%
Boron	10-1	71.94	73.40	72.88	72.74	1.02	ppb
Boron	11-1	72.27	73.93	73.60	73.26	1.20	ppb
Cadmium	106-1	-1.24	-0.16	-0.63	-0.68		ppb
Cadmium	108-1	-0.02	0.03	0.01	0.01	362.61	ppb
Cadmium	111-1	-0.02	0.00	-0.01	-0.01		ppb
Calcium	43-1	24359.84	24250.66	24330.15	24313.55	0.23	ppb
Calcium	44-1	24334.44	24777.54	24830.46	24647.48	1.11	ppb
Chromium	52-2	0.14	0.13	0.15	0.14	5.33	ppb
Cobalt	59-2	0.05	0.04	0.04	0.04	16.03	ppb
Copper	63-2	0.73	0.70	0.67	0.70	4.77	ppb
Dysprosium	156-2						cps
Dysprosium	156-1						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-2						cps
Gadolinium	160-1						cps
Holmium	165-1						%
Holmium	165-2						%
Indium	115-2						%
Indium	115-1						%
Iron	56-2	5.45	5.49	5.49	5.48	0.43	ppb
Iron	57-2	9.73	7.79	9.83	9.12	12.57	ppb
Lead	206-1	0.08	0.10	0.08	0.09	12.70	ppb
Lead	207-1	0.06	0.05	0.05	0.05	6.61	ppb
Lead	208-1	0.06	0.06	0.07	0.06	3.93	ppb
Lithium	6-1						%
Magnesium	24-2	11239.07	11102.93	11086.15	11142.71	0.75	ppb
Manganese	55-2	6.59	6.61	6.79	6.66	1.63	ppb

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2578-02LX5	Instrumnet Name :	P7
Client Sample ID :	MH0AT6L	Dilution Factor :	5
Date & Time Acquired ::	2017-04-18 13:44:25	DataFile Name :	024SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Molybdenum	94-1	0.72	0.74	0.77	0.74	3.28	ppb
Molybdenum	95-1	2.41	2.40	2.45	2.42	0.97	ppb
Molybdenum	96-1	2.01	2.03	2.01	2.02	0.46	ppb
Molybdenum	97-1	2.46	2.47	2.44	2.46	0.60	ppb
Molybdenum	98-1	2.46	2.45	2.36	2.42	2.21	ppb
Neodymium	150-2						cps
Neodymium	150-1						cps
Nickel	60-2	0.20	0.24	0.22	0.22	9.28	ppb
Phosphorus	31-2	162.79	202.82	162.63	176.08	13.15	ppb
Potassium	39-2	3337.47	3273.67	3310.26	3307.13	0.97	ppb
Rhodium	103-2						%
Rhodium	103-1						%
Scandium	45-1						%
Scandium	45-2						%
Selenium	82-1	-1.02	0.38	0.26	-0.13		ppb
Selenium	77-2	0.78	1.58	1.31	1.22	32.97	ppb
Selenium	78-2	0.82	-0.11	0.61	0.44	111.87	ppb
Silicon	28-1	2022.56	2023.45	2016.57	2020.86	0.19	ppb
Silver	107-1	0.10	0.10	0.12	0.11	9.28	ppb
Silver	109-1	0.11	0.11	0.10	0.11	8.95	ppb
Sodium	23-2	42115.03	42057.16	41718.49	41963.56	0.51	ppb
Strontium	86-1	178.55	176.76	178.17	177.83	0.53	ppb
Strontium	88-1	182.31	181.21	180.92	181.48	0.40	ppb
Sulfur	34-1	19720.12	19529.51	19521.77	19590.47	0.57	ppb
Terbium	159-2						%
Terbium	159-1						%
Thallium	203-1	0.00	0.00	0.00	0.00		ppb
Thallium	205-1	0.01	0.00	0.01	0.00	70.54	ppb
Tin	118-1	0.08	0.09	0.08	0.08	6.34	ppb
Titanium	47-1	0.26	0.29	0.27	0.28	6.06	ppb
Uranium	238-1	2.26	2.23	2.27	2.25	1.05	ppb
Vanadium	51-2	0.84	0.84	0.90	0.86	4.30	ppb
Yttrium	89-1						%
Yttrium	89-2						%
Zinc	66-2	6.12	6.27	6.14	6.18	1.35	ppb
Zirconium	90-1	0.02	0.03	0.02	0.02	12.84	ppb

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LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2578-02LX5	Instrumnet Name :	P7
Client Sample ID :	MH0AT6L	Dilution Factor :	5
Date & Time Acquired ::	2017-04-18 13:44:25	DataFile Name :	024SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Zirconium	91-1	0.02	0.01	0.03	0.02	43.02	ppb

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2578-04	Instrumnet Name :	P7
Client Sample ID :	MH0AT6S	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 13:47:54	DataFile Name :	025SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	2048.11	2054.29	2041.39	2047.93	0.32	ppb
Antimony	121-1	113.30	113.70	112.41	113.13	0.58	ppb
Arsenic	75-2	55.10	54.37	53.67	54.38	1.31	ppb
Barium	135-1	2215.10	2210.04	2217.24	2214.12	0.17	ppb
Barium	137-1	2232.75	2220.33	2200.97	2218.02	0.72	ppb
Beryllium	9-1	50.66	51.27	50.81	50.91	0.63	ppb
Bismuth	209-2						%
Bismuth	209-1						%
Boron	10-1	285.27	294.50	298.54	292.77	2.32	ppb
Boron	11-1	290.41	291.26	292.20	291.29	0.31	ppb
Cadmium	106-1	42.22	40.44	40.93	41.20	2.24	ppb
Cadmium	108-1	46.71	47.51	47.70	47.31	1.11	ppb
Cadmium	111-1	54.00	54.01	53.74	53.92	0.28	ppb
Calcium	43-1	123061.81	122158.44	123222.42	122814.22	0.47	ppb
Calcium	44-1	121093.88	120768.93	122784.35	121549.05	0.89	ppb
Chromium	52-2	217.39	219.82	216.88	218.03	0.72	ppb
Cobalt	59-2	545.32	550.69	542.34	546.12	0.77	ppb
Copper	63-2	277.44	282.40	279.38	279.74	0.89	ppb
Dysprosium	156-2						cps
Dysprosium	156-1						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-2						cps
Gadolinium	160-1						cps
Holmium	165-1						%
Holmium	165-2						%
Indium	115-2						%
Indium	115-1						%
Iron	56-2	1100.03	1111.95	1095.83	1102.60	0.76	ppb
Iron	57-2	1112.51	1138.47	1125.88	1125.62	1.15	ppb
Lead	208-1	21.83	21.68	21.59	21.70	0.56	ppb
Lead	206-1	22.13	21.74	21.87	21.92	0.91	ppb
Lead	207-1	21.40	21.31	21.25	21.32	0.37	ppb
Lithium	6-1						%
Magnesium	24-2	55078.27	55635.17	54801.50	55171.65	0.77	ppb
Manganese	55-2	573.37	578.50	574.34	575.40	0.47	ppb

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2578-04	Instrumnet Name :	P7
Client Sample ID :	MH0AT6S	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 13:47:54	DataFile Name :	025SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Molybdenum	94-1	3.50	3.46	3.49	3.48	0.67	ppb
Molybdenum	95-1	11.29	11.16	10.97	11.14	1.44	ppb
Molybdenum	96-1	9.16	9.07	9.30	9.18	1.27	ppb
Molybdenum	97-1	11.47	11.17	11.38	11.34	1.33	ppb
Molybdenum	98-1	11.24	11.22	11.06	11.17	0.86	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	552.33	557.26	549.14	552.91	0.74	ppb
Phosphorus	31-2	866.76	874.91	803.44	848.37	4.61	ppb
Potassium	39-2	16350.35	16482.63	16197.49	16343.49	0.87	ppb
Rhodium	103-2						%
Rhodium	103-1						%
Scandium	45-1						%
Scandium	45-2						%
Selenium	77-2	116.18	106.00	111.56	111.25	4.58	ppb
Selenium	78-2	115.00	117.70	117.92	116.87	1.39	ppb
Selenium	82-1	113.57	109.57	113.17	112.10	1.97	ppb
Silicon	28-1	10077.96	10006.02	10024.93	10036.30	0.37	ppb
Silver	109-1	67.71	67.63	66.98	67.44	0.59	ppb
Silver	107-1	67.55	67.05	66.52	67.04	0.76	ppb
Sodium	23-2	206212.11	206744.94	203883.67	205613.58	0.74	ppb
Strontium	86-1	897.04	898.22	890.25	895.17	0.48	ppb
Strontium	88-1	894.82	901.68	895.96	897.49	0.41	ppb
Sulfur	34-1	73336.13	72466.83	72848.93	72883.96	0.60	ppb
Terbium	159-1						%
Terbium	159-2						%
Thallium	203-1	53.49	53.20	53.46	53.38	0.29	ppb
Thallium	205-1	54.83	54.54	54.25	54.54	0.54	ppb
Tin	118-1	0.22	0.23	0.23	0.23	1.93	ppb
Titanium	47-1	1.34	1.44	1.23	1.34	7.82	ppb
Uranium	238-1	11.74	11.50	11.73	11.66	1.15	ppb
Vanadium	51-2	553.98	556.90	551.69	554.19	0.47	ppb
Yttrium	89-2						%
Yttrium	89-1						%
Zinc	66-2	582.18	577.35	577.69	579.08	0.47	ppb
Zirconium	90-1	0.09	0.11	0.10	0.10	13.23	ppb

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LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2578-04	Instrumnet Name :	P7
Client Sample ID :	MH0AT6S	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 13:47:54	DataFile Name :	025SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Zirconium	91-1	0.11	0.12	0.15	0.13	17.64	ppb

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2578-02A	Instrumnet Name :	P7
Client Sample ID :	MH0AT6A	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 13:51:24	DataFile Name :	026SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	7.01	10.60	6.80	8.14	26.28	ppb
Antimony	121-1	0.69	0.69	0.71	0.70	1.63	ppb
Arsenic	75-2	10.49	10.37	10.36	10.41	0.71	ppb
Barium	135-1	61.49	60.82	61.00	61.10	0.57	ppb
Barium	137-1	61.79	61.43	60.66	61.29	0.94	ppb
Beryllium	9-1	0.00	0.00	-0.01	0.00		ppb
Bismuth	209-1						%
Bismuth	209-2						%
Boron	10-1	280.58	290.13	284.65	285.12	1.68	ppb
Boron	11-1	283.29	292.22	288.25	287.92	1.56	ppb
Cadmium	106-1	-1.77	-1.32	-0.84	-1.31		ppb
Cadmium	108-1	0.17	0.23	0.13	0.18	28.02	ppb
Cadmium	111-1	0.00	0.03	0.03	0.02	105.46	ppb
Calcium	43-1	121587.97	122686.56	123193.79	122489.44	0.67	ppb
Calcium	44-1	122506.25	122206.80	123390.94	122701.33	0.50	ppb
Chromium	52-2	0.66	0.68	0.61	0.65	5.59	ppb
Cobalt	59-2	0.25	0.25	0.23	0.24	4.58	ppb
Copper	63-2	3.33	3.32	3.38	3.34	0.94	ppb
Dysprosium	156-2						cps
Dysprosium	156-1						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-2						cps
Gadolinium	160-1						cps
Holmium	165-2						%
Holmium	165-1						%
Indium	115-1						%
Indium	115-2						%
Iron	56-2	25.25	24.97	25.01	25.08	0.60	ppb
Iron	57-2	45.44	45.81	47.71	46.32	2.63	ppb
Lead	206-1	0.32	0.33	0.30	0.32	5.51	ppb
Lead	207-1	0.28	0.29	0.26	0.28	6.19	ppb
Lead	208-1	0.30	0.31	0.29	0.30	2.93	ppb
Lithium	6-1						%
Magnesium	24-2	56150.83	55611.51	55959.49	55907.28	0.49	ppb
Manganese	55-2	33.51	33.02	33.22	33.25	0.75	ppb

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2578-02A	Instrumnet Name :	P7
Client Sample ID :	MH0AT6A	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 13:51:24	DataFile Name :	026SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Molybdenum	94-1	3.47	3.53	3.64	3.55	2.49	ppb
Molybdenum	95-1	11.46	11.65	11.47	11.53	0.93	ppb
Molybdenum	96-1	9.29	9.49	9.51	9.43	1.28	ppb
Molybdenum	97-1	11.27	11.70	11.64	11.54	1.99	ppb
Molybdenum	98-1	11.34	11.43	11.47	11.41	0.62	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	1.23	1.18	1.18	1.20	2.21	ppb
Phosphorus	31-2	878.16	842.42	890.63	870.40	2.87	ppb
Potassium	39-2	16638.25	16693.14	16774.49	16701.96	0.41	ppb
Rhodium	103-2						%
Rhodium	103-1						%
Scandium	45-1						%
Scandium	45-2						%
Selenium	77-2	6.11	3.20	5.06	4.79	30.78	ppb
Selenium	78-2	3.17	3.15	4.60	3.64	22.92	ppb
Selenium	82-1	3.44	3.73	3.22	3.47	7.44	ppb
Silicon	28-1	10105.94	10099.64	10032.89	10079.49	0.40	ppb
Silver	109-1	1.70	1.73	1.75	1.73	1.27	ppb
Silver	107-1	1.71	1.72	1.74	1.72	0.88	ppb
Sodium	23-2	210863.40	207765.80	210149.68	209592.96	0.77	ppb
Strontium	86-1	919.63	913.12	921.96	918.23	0.50	ppb
Strontium	88-1	916.41	915.01	919.49	916.97	0.25	ppb
Sulfur	34-1	73514.51	74080.89	74285.53	73960.31	0.54	ppb
Terbium	159-1						%
Terbium	159-2						%
Thallium	203-1	0.04	0.04	0.04	0.04	4.54	ppb
Thallium	205-1	0.04	0.03	0.04	0.04	5.05	ppb
Tin	118-1	0.26	0.27	0.27	0.27	0.57	ppb
Titanium	47-1	1.20	1.16	1.29	1.22	5.35	ppb
Uranium	238-1	11.75	11.92	11.78	11.81	0.77	ppb
Vanadium	51-2	4.23	4.27	4.31	4.27	0.83	ppb
Yttrium	89-2						%
Yttrium	89-1						%
Zinc	66-2	32.06	33.16	32.66	32.63	1.70	ppb
Zirconium	90-1	0.10	0.11	0.10	0.10	5.84	ppb

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2578-02A	Instrumnet Name :	P7
Client Sample ID :	MH0AT6A	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 13:51:24	DataFile Name :	026SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Zirconium	91-1	0.10	0.09	0.12	0.10	16.71	ppb

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	PB98150BSRE	Instrumnet Name :	P7
Client Sample ID :	PB98150BSRE	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 13:59:37	DataFile Name :	027LCSE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	33.38	34.65	32.47	33.50	3.26	ppb
Antimony	121-1	3.53	3.55	3.48	3.52	1.04	ppb
Arsenic	75-2	1.80	1.89	1.77	1.82	3.39	ppb
Barium	135-1	17.26	17.65	17.06	17.33	1.74	ppb
Barium	137-1	17.26	17.29	17.10	17.22	0.60	ppb
Beryllium	9-1	1.82	1.87	1.75	1.82	3.35	ppb
Bismuth	209-1						%
Bismuth	209-2						%
Boron	10-1	21.31	21.01	21.51	21.27	1.18	ppb
Boron	11-1	20.74	22.16	20.92	21.27	3.63	ppb
Cadmium	106-1	0.02	0.12	-0.23	-0.03		ppb
Cadmium	108-1	1.01	0.91	1.05	0.99	6.89	ppb
Cadmium	111-1	0.73	0.69	0.69	0.71	3.27	ppb
Calcium	43-1	806.16	828.13	836.76	823.68	1.92	ppb
Calcium	44-1	829.35	839.75	839.19	836.10	0.70	ppb
Chromium	52-2	3.72	3.62	3.54	3.63	2.50	ppb
Cobalt	59-2	1.77	1.88	1.84	1.83	2.99	ppb
Copper	63-2	3.77	3.85	3.83	3.82	1.02	ppb
Dysprosium	156-2						cps
Dysprosium	156-1						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-2						cps
Gadolinium	160-1						cps
Holmium	165-2						%
Holmium	165-1						%
Indium	115-1						%
Indium	115-2						%
Iron	56-2	355.60	355.21	351.64	354.15	0.62	ppb
Iron	57-2	365.91	355.40	349.97	357.09	2.27	ppb
Lead	206-1	1.72	1.71	1.65	1.69	2.29	ppb
Lead	207-1	1.70	1.63	1.70	1.68	2.32	ppb
Lead	208-1	1.70	1.69	1.68	1.69	0.54	ppb
Lithium	6-1						%
Magnesium	24-2	877.46	890.03	877.14	881.54	0.83	ppb
Manganese	55-2	1.86	1.88	1.82	1.86	1.61	ppb

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	PB98150BSRE	Instrumnet Name :	P7
Client Sample ID :	PB98150BSRE	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 13:59:37	DataFile Name :	027LCSE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Molybdenum	94-1	3.52	3.40	3.36	3.43	2.49	ppb
Molybdenum	95-1	8.20	7.94	7.99	8.04	1.72	ppb
Molybdenum	96-1	6.97	6.87	6.64	6.83	2.44	ppb
Molybdenum	97-1	8.34	8.14	7.92	8.13	2.60	ppb
Molybdenum	98-1	7.98	8.00	7.81	7.93	1.31	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	2.00	1.94	1.96	1.97	1.56	ppb
Phosphorus	31-2	-0.33	-6.48	-1.54	-2.78		ppb
Potassium	39-2	846.25	852.27	836.75	845.09	0.93	ppb
Rhodium	103-2						%
Rhodium	103-1						%
Scandium	45-1						%
Scandium	45-2						%
Selenium	77-2	7.96	8.51	9.30	8.59	7.89	ppb
Selenium	78-2	8.04	7.86	9.39	8.43	9.94	ppb
Selenium	82-1	8.77	7.85	8.55	8.39	5.78	ppb
Silicon	28-1	4.14	4.47	4.52	4.38	4.77	ppb
Silver	109-1	1.86	1.88	1.86	1.87	0.71	ppb
Silver	107-1	1.79	1.81	1.84	1.81	1.35	ppb
Sodium	23-2	887.80	896.54	887.04	890.46	0.59	ppb
Strontium	86-1	1.44	1.38	1.42	1.41	1.98	ppb
Strontium	88-1	1.55	1.52	1.51	1.53	1.49	ppb
Sulfur	34-1	-140.40	16.39	-127.44	-83.81		ppb
Terbium	159-1						%
Terbium	159-2						%
Thallium	203-1	1.74	1.69	1.71	1.71	1.40	ppb
Thallium	205-1	1.76	1.74	1.71	1.73	1.54	ppb
Tin	118-1	8.46	8.59	8.27	8.44	1.91	ppb
Titanium	47-1	8.03	8.58	8.41	8.34	3.34	ppb
Uranium	238-1	1.58	1.58	1.57	1.57	0.51	ppb
Vanadium	51-2	8.69	8.83	8.58	8.70	1.42	ppb
Yttrium	89-2						%
Yttrium	89-1						%
Zinc	66-2	4.16	4.28	3.98	4.14	3.69	ppb
Zirconium	90-1	1.50	1.47	1.39	1.45	3.91	ppb

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	PB98150BSRE	Instrumnet Name :	P7
Client Sample ID :	PB98150BSRE	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 13:59:37	DataFile Name :	027LCSE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Zirconium	91-1	1.57	1.51	1.39	1.49	5.95	ppb

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On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	CCV64	Instrumnet Name :	P7
Client Sample ID :	CCV64	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 14:03:39	DataFile Name :	028CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	9449.54	9342.15	9354.88	9382.19	0.63	ppb
Antimony	121-1	498.50	494.70	484.98	492.73	1.41	ppb
Arsenic	75-2	497.32	496.75	492.63	495.57	0.52	ppb
Barium	135-1	2500.41	2501.16	2476.73	2492.77	0.56	ppb
Barium	137-1	2496.18	2490.80	2485.46	2490.81	0.22	ppb
Beryllium	9-1	493.60	497.58	494.92	495.37	0.41	ppb
Bismuth	209-1						%
Bismuth	209-2						%
Boron	10-1	484.59	496.41	494.47	491.83	1.29	ppb
Boron	11-1	484.65	493.41	492.74	490.27	1.00	ppb
Cadmium	111-1	498.14	500.88	498.71	499.24	0.29	ppb
Cadmium	106-1	498.29	487.06	496.62	493.99	1.23	ppb
Cadmium	108-1	505.20	502.69	501.25	503.05	0.40	ppb
Calcium	43-1	47291.46	47262.78	47381.75	47312.00	0.13	ppb
Calcium	44-1	48026.05	47807.16	47574.55	47802.59	0.47	ppb
Chromium	52-2	505.81	501.18	502.79	503.26	0.47	ppb
Cobalt	59-2	502.69	502.41	502.37	502.49	0.03	ppb
Copper	63-2	1043.77	1029.95	1025.12	1032.94	0.94	ppb
Dysprosium	156-2						cps
Dysprosium	156-1						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-2						cps
Gadolinium	160-1						cps
Holmium	165-1						%
Holmium	165-2						%
Indium	115-2						%
Indium	115-1						%
Iron	56-2	25317.35	25207.82	25211.29	25245.49	0.25	ppb
Iron	57-2	25017.11	24892.25	25009.64	24973.00	0.28	ppb
Lead	206-1	483.98	490.22	487.12	487.11	0.64	ppb
Lead	207-1	479.92	486.17	485.10	483.73	0.69	ppb
Lead	208-1	482.96	491.06	490.72	488.25	0.94	ppb
Lithium	6-1						%
Magnesium	24-2	49398.85	49023.50	49492.09	49304.81	0.50	ppb
Manganese	55-2	1013.93	1010.68	1007.00	1010.54	0.34	ppb

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	CCV64	Instrumnet Name :	P7
Client Sample ID :	CCV64	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 14:03:39	DataFile Name :	028CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Molybdenum	94-1	492.94	490.31	492.53	491.92	0.29	ppb
Molybdenum	95-1	492.83	487.08	486.09	488.66	0.74	ppb
Molybdenum	96-1	486.68	482.06	484.74	484.49	0.48	ppb
Molybdenum	97-1	488.91	488.53	488.69	488.71	0.04	ppb
Molybdenum	98-1	497.04	495.78	501.07	497.96	0.55	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	509.47	511.44	510.79	510.57	0.20	ppb
Phosphorus	31-2	9840.96	9967.12	9907.69	9905.26	0.64	ppb
Potassium	39-2	23786.37	23989.39	24036.23	23937.33	0.55	ppb
Rhodium	103-2						%
Rhodium	103-1						%
Scandium	45-1						%
Scandium	45-2						%
Selenium	77-2	520.80	515.44	504.06	513.43	1.66	ppb
Selenium	78-2	495.05	491.23	499.13	495.14	0.80	ppb
Selenium	82-1	498.63	494.44	496.56	496.54	0.42	ppb
Silicon	28-1	483.22	486.32	492.53	487.36	0.97	ppb
Silver	109-1	506.39	509.87	506.63	507.63	0.38	ppb
Silver	107-1	509.83	502.68	505.10	505.87	0.72	ppb
Sodium	23-2	49606.83	49661.09	49967.67	49745.20	0.39	ppb
Strontium	86-1	490.77	489.09	489.37	489.74	0.18	ppb
Strontium	88-1	501.03	497.38	499.94	499.45	0.37	ppb
Sulfur	34-1	10041.51	9743.91	9775.65	9853.69	1.66	ppb
Terbium	159-1						%
Terbium	159-2						%
Thallium	203-1	490.45	497.72	495.93	494.70	0.77	ppb
Thallium	205-1	493.77	493.87	491.93	493.19	0.22	ppb
Tin	118-1	497.96	500.16	499.61	499.24	0.23	ppb
Titanium	47-1	488.58	486.61	488.28	487.83	0.22	ppb
Uranium	238-1	476.30	481.03	485.24	480.86	0.93	ppb
Vanadium	51-2	502.15	500.26	504.49	502.30	0.42	ppb
Yttrium	89-2						%
Yttrium	89-1						%
Zinc	66-2	1039.28	1014.31	1020.84	1024.81	1.26	ppb
Zirconium	91-1	487.52	487.74	488.71	487.99	0.13	ppb

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	CCV64	Instrumnet Name :	P7
Client Sample ID :	CCV64	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 14:03:39	DataFile Name :	028CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Zirconium	90-1	498.19	497.00	497.90	497.70	0.12	ppb

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	CCB64	Instrumnet Name :	P7
Client Sample ID :	CCB64	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 14:11:55	DataFile Name :	029CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	0.36	-0.06	0.00	0.10	228.62	ppb
Antimony	121-1	0.61	0.89	1.11	0.87	28.69	ppb
Arsenic	75-2	0.10	0.12	0.11	0.11	9.36	ppb
Barium	137-1	-0.01	0.01	-0.01	0.00		ppb
Barium	135-1	0.00	0.03	0.02	0.01	89.90	ppb
Beryllium	9-1	0.00	0.01	0.01	0.01	68.81	ppb
Bismuth	209-1						%
Bismuth	209-2						%
Boron	10-1	4.31	3.64	4.19	4.04	8.87	ppb
Boron	11-1	4.42	4.21	3.96	4.20	5.53	ppb
Cadmium	111-1	-0.05	-0.05	-0.03	-0.04		ppb
Cadmium	106-1	-2.14	-2.25	-1.10	-1.83		ppb
Cadmium	108-1	-0.01	0.03	0.00	0.01	287.57	ppb
Calcium	43-1	-0.10	-0.43	1.22	0.23	375.01	ppb
Calcium	44-1	-7.29	-7.25	-7.32	-7.29		ppb
Chromium	52-2	0.02	0.01	-0.02	0.00		ppb
Cobalt	59-2	0.00	0.00	0.00	0.00	210.22	ppb
Copper	63-2	-0.24	-0.18	-0.15	-0.19		ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-2						cps
Erbium	164-1						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-2						%
Holmium	165-1						%
Indium	115-2						%
Indium	115-1						%
Iron	56-2	0.45	0.41	0.37	0.41	9.49	ppb
Iron	57-2	0.44	0.49	0.24	0.39	33.78	ppb
Lead	206-1	0.00	0.01	0.01	0.01	50.49	ppb
Lead	207-1	0.00	0.00	0.02	0.01	132.25	ppb
Lead	208-1	0.00	0.00	0.01	0.00	114.55	ppb
Lithium	6-1						%
Magnesium	24-2	0.26	-0.01	0.05	0.10	139.50	ppb
Manganese	55-2	0.01	0.00	-0.01	0.00	403.63	ppb

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	CCB64	Instrumnet Name :	P7
Client Sample ID :	CCB64	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 14:11:55	DataFile Name :	029CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Molybdenum	94-1	0.05	0.07	0.10	0.07	36.99	ppb
Molybdenum	95-1	0.12	0.21	0.34	0.23	49.52	ppb
Molybdenum	96-1	0.11	0.18	0.24	0.18	37.69	ppb
Molybdenum	97-1	0.10	0.21	0.29	0.20	48.89	ppb
Molybdenum	98-1	0.14	0.20	0.30	0.21	37.07	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.06	0.01	0.04	0.03	80.95	ppb
Phosphorus	31-2	10.00	0.73	-6.45	1.43	576.76	ppb
Potassium	39-2	-0.93	0.83	2.97	0.96	204.15	ppb
Rhodium	103-2						%
Rhodium	103-1						%
Scandium	45-1						%
Scandium	45-2						%
Selenium	77-2	0.00	0.00	0.00	0.00	N/A	ppb
Selenium	78-2	-0.44	-0.40	0.31	-0.18		ppb
Selenium	82-1	-0.56	-0.26	-0.47	-0.43		ppb
Silicon	28-1	-4.49	-4.71	-5.15	-4.78		ppb
Silver	109-1	0.02	0.02	0.02	0.02	5.29	ppb
Silver	107-1	0.01	0.02	0.01	0.01	22.09	ppb
Sodium	23-2	13.16	12.32	11.22	12.23	7.94	ppb
Strontium	86-1	-0.05	-0.02	-0.07	-0.05		ppb
Strontium	88-1	0.00	0.00	0.00	0.00	42.07	ppb
Sulfur	34-1	-731.74	-745.10	-966.31	-814.38		ppb
Terbium	159-1						%
Terbium	159-2						%
Thallium	203-1	0.02	0.01	0.01	0.01	36.95	ppb
Thallium	205-1	0.01	0.01	0.01	0.01	7.79	ppb
Tin	118-1	0.04	0.05	0.07	0.05	35.11	ppb
Titanium	47-1	-0.03	0.01	0.00	-0.01		ppb
Uranium	238-1	0.00	0.00	0.00	0.00		ppb
Vanadium	51-2	0.00	0.00	0.00	0.00	126.99	ppb
Yttrium	89-2						%
Yttrium	89-1						%
Zinc	66-2	0.02	0.09	0.02	0.04	96.49	ppb
Zirconium	90-1	0.01	0.01	0.01	0.01	31.48	ppb

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	CCB64	Instrumnet Name :	P7
Client Sample ID :	CCB64	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 14:11:55	DataFile Name :	029CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Zirconium	91-1	0.01	0.00	0.00	0.01	62.37	ppb

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	PB98211BL	Instrumnet Name :	P7
Client Sample ID :	PB98211BL	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 14:15:24	DataFile Name :	030SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	0.15	0.57	0.26	0.33	66.33	ppb
Antimony	121-1	0.24	0.29	0.35	0.29	18.14	ppb
Arsenic	75-2	0.05	0.06	0.12	0.08	47.59	ppb
Barium	135-1	0.01	0.00	0.00	0.00	229.84	ppb
Barium	137-1	-0.01	0.00	-0.01	0.00		ppb
Beryllium	9-1	0.01	0.02	0.00	0.01	83.56	ppb
Bismuth	209-1						%
Bismuth	209-2						%
Boron	10-1	3.00	3.37	3.92	3.43	13.44	ppb
Boron	11-1	3.43	3.31	3.96	3.57	9.62	ppb
Cadmium	106-1	-1.08	-0.75	-0.13	-0.65		ppb
Cadmium	108-1	0.02	-0.03	-0.03	-0.01		ppb
Cadmium	111-1	-0.03	-0.02	0.00	-0.02		ppb
Calcium	43-1	-0.89	-1.09	-0.90	-0.96		ppb
Calcium	44-1	-7.47	-7.30	-7.26	-7.34		ppb
Chromium	52-2	0.00	-0.02	0.00	-0.01		ppb
Cobalt	59-2	0.00	-0.01	-0.01	0.00		ppb
Copper	63-2	-0.23	-0.17	-0.19	-0.19		ppb
Dysprosium	156-2						cps
Dysprosium	156-1						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-2						cps
Gadolinium	160-1						cps
Holmium	165-2						%
Holmium	165-1						%
Indium	115-1						%
Indium	115-2						%
Iron	56-2	0.11	0.24	0.18	0.18	38.71	ppb
Iron	57-2	-0.15	0.40	0.49	0.25	141.19	ppb
Lead	206-1	0.01	0.01	0.02	0.01	37.62	ppb
Lead	207-1	0.01	0.01	0.01	0.01	22.52	ppb
Lead	208-1	0.00	0.00	0.00	0.00	72.23	ppb
Lithium	6-1						%
Magnesium	24-2	0.12	0.16	0.01	0.10	77.48	ppb
Manganese	55-2	-0.01	-0.01	-0.01	-0.01		ppb

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	PB98211BL	Instrumnet Name :	P7
Client Sample ID :	PB98211BL	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 14:15:24	DataFile Name :	030SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Molybdenum	94-1	0.03	0.03	0.04	0.03	26.46	ppb
Molybdenum	95-1	0.08	0.09	0.15	0.11	37.07	ppb
Molybdenum	96-1	0.06	0.08	0.12	0.09	36.33	ppb
Molybdenum	97-1	0.03	0.12	0.14	0.10	58.01	ppb
Molybdenum	98-1	0.06	0.10	0.18	0.11	57.92	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.02	-0.02	-0.02	-0.02		ppb
Phosphorus	31-2	9.37	8.33	-1.74	5.32	115.34	ppb
Potassium	39-2	1.90	6.43	4.23	4.19	54.07	ppb
Rhodium	103-2						%
Rhodium	103-1						%
Scandium	45-1						%
Scandium	45-2						%
Selenium	77-2	0.53	0.27	0.00	0.27	100.15	ppb
Selenium	78-2	-0.07	0.32	-0.29	-0.02		ppb
Selenium	82-1	0.33	-0.32	0.99	0.33	197.72	ppb
Silicon	28-1	-5.65	-4.60	-4.56	-4.94		ppb
Silver	109-1	0.01	0.02	0.01	0.01	31.62	ppb
Silver	107-1	0.01	0.01	0.01	0.01	27.60	ppb
Sodium	23-2	11.27	10.80	11.45	11.17	3.02	ppb
Strontium	86-1	0.02	-0.10	-0.01	-0.03		ppb
Strontium	88-1	0.00	0.00	0.00	0.00	47.12	ppb
Sulfur	34-1	-768.13	-436.02	-452.12	-552.09		ppb
Terbium	159-1						%
Terbium	159-2						%
Thallium	203-1	0.00	0.01	0.00	0.01	67.66	ppb
Thallium	205-1	0.01	0.01	0.01	0.01	4.49	ppb
Tin	118-1	0.01	0.04	0.05	0.03	56.01	ppb
Titanium	47-1	-0.01	-0.04	-0.03	-0.03		ppb
Uranium	238-1	-0.01	-0.01	-0.01	-0.01		ppb
Vanadium	51-2	0.00	0.00	0.00	0.00		ppb
Yttrium	89-2						%
Yttrium	89-1						%
Zinc	66-2	0.03	0.03	0.04	0.03	25.29	ppb
Zirconium	90-1	0.00	0.00	0.01	0.01	34.27	ppb

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	PB98211BL	Instrumnet Name :	P7
Client Sample ID :	PB98211BL	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 14:15:24	DataFile Name :	030SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Zirconium	91-1	0.00	0.01	0.01	0.01	53.70	ppb

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2562-03	Instrumnet Name :	P7
Client Sample ID :	0206	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 14:18:53	DataFile Name :	031SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	552.82	543.81	536.57	544.40	1.50	ppb
Antimony	121-1	20.76	20.81	20.69	20.75	0.28	ppb
Arsenic	75-2	40.02	40.26	40.50	40.26	0.59	ppb
Barium	135-1	839.42	839.08	843.81	840.77	0.31	ppb
Barium	137-1	841.16	847.33	867.30	851.93	1.60	ppb
Beryllium	9-1	17.41	17.54	16.88	17.28	2.03	ppb
Bismuth	209-2						%
Bismuth	209-1						%
Boron	10-1	1122.32	1132.94	1138.22	1131.16	0.72	ppb
Boron	11-1	1121.30	1147.10	1149.08	1139.16	1.36	ppb
Cadmium	106-1	26.12	26.43	25.68	26.07	1.45	ppb
Cadmium	108-1	28.04	29.23	30.10	29.13	3.54	ppb
Cadmium	111-1	33.22	33.30	33.39	33.30	0.25	ppb
Calcium	43-1	2.78	4.73	4.51	4.01	26.65	ppb
Calcium	44-1	-4.01	-4.65	-6.25	-4.97		ppb
Chromium	52-2	162.66	162.43	163.37	162.82	0.30	ppb
Cobalt	59-2	0.01	0.00	0.01	0.01	37.40	ppb
Copper	63-2	671.58	664.29	670.92	668.93	0.60	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-2						cps
Gadolinium	160-1						cps
Holmium	165-1						%
Holmium	165-2						%
Indium	115-1						%
Indium	115-2						%
Iron	56-2	1403.29	1384.54	1400.32	1396.05	0.72	ppb
Iron	57-2	1376.16	1377.95	1378.33	1377.48	0.08	ppb
Lead	206-1	22.89	22.44	22.80	22.71	1.03	ppb
Lead	207-1	20.38	20.57	20.57	20.51	0.52	ppb
Lead	208-1	21.67	21.60	21.70	21.65	0.23	ppb
Lithium	6-1						%
Magnesium	24-2	0.33	0.60	0.20	0.38	53.35	ppb
Manganese	55-2	909.51	898.86	912.10	906.82	0.77	ppb

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Inst Id :P7
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LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2562-03	Instrumnet Name :	P7
Client Sample ID :	0206	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 14:18:53	DataFile Name :	031SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Molybdenum	94-1	5.80	5.53	5.57	5.63	2.58	ppb
Molybdenum	95-1	18.91	18.39	18.38	18.56	1.62	ppb
Molybdenum	96-1	15.48	15.25	15.24	15.32	0.87	ppb
Molybdenum	97-1	18.77	18.81	18.51	18.70	0.86	ppb
Molybdenum	98-1	18.66	18.29	18.35	18.44	1.07	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	304.16	301.14	304.26	303.19	0.58	ppb
Phosphorus	31-2	4.05	-7.07	5.87	0.95	738.37	ppb
Potassium	39-2	6.65	7.57	7.35	7.19	6.69	ppb
Rhodium	103-2						%
Rhodium	103-1						%
Scandium	45-1						%
Scandium	45-2						%
Selenium	77-2	39.17	36.10	38.03	37.77	4.10	ppb
Selenium	78-2	37.91	37.52	34.09	36.51	5.76	ppb
Selenium	82-1	35.11	35.95	36.57	35.88	2.04	ppb
Silicon	28-1	36.94	36.31	36.20	36.49	1.10	ppb
Silver	107-1	50.88	51.47	50.72	51.02	0.77	ppb
Silver	109-1	50.81	51.72	51.63	51.38	0.97	ppb
Sodium	23-2	36.14	35.02	36.03	35.73	1.73	ppb
Strontium	86-1	-0.07	-0.11	-0.04	-0.07		ppb
Strontium	88-1	0.01	0.01	0.01	0.01	18.42	ppb
Sulfur	34-1	-517.65	-680.65	-664.95	-621.08		ppb
Terbium	159-2						%
Terbium	159-1						%
Thallium	203-1	7.39	7.43	7.48	7.43	0.59	ppb
Thallium	205-1	7.61	7.47	7.62	7.57	1.08	ppb
Tin	118-1	0.36	0.42	0.37	0.38	7.45	ppb
Titanium	47-1	0.04	0.02	-0.01	0.02	140.71	ppb
Uranium	238-1	71.53	71.52	71.73	71.59	0.16	ppb
Vanadium	51-2	198.82	198.18	198.74	198.58	0.18	ppb
Yttrium	89-2						%
Yttrium	89-1						%
Zinc	66-2	1282.03	1273.22	1277.25	1277.50	0.35	ppb
Zirconium	90-1	0.05	0.05	0.04	0.04	9.66	ppb

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LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2562-03	Instrumnet Name :	P7
Client Sample ID :	0206	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 14:18:53	DataFile Name :	031SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Zirconium	91-1	0.07	0.07	0.07	0.07	6.75	ppb

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2562-04	Instrumnet Name :	P7
Client Sample ID :	0232	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 14:22:22	DataFile Name :	032SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	3.38	3.07	3.06	3.17	5.70	ppb
Antimony	121-1	0.12	0.14	0.16	0.14	15.70	ppb
Arsenic	75-2	0.17	0.16	0.10	0.14	26.45	ppb
Barium	135-1	0.22	0.19	0.25	0.22	11.94	ppb
Barium	137-1	0.26	0.22	0.22	0.23	11.14	ppb
Beryllium	9-1	0.00	0.01	0.00	0.00	172.20	ppb
Bismuth	209-1						%
Bismuth	209-2						%
Boron	10-1	56.49	53.20	52.25	53.98	4.12	ppb
Boron	11-1	56.67	53.43	51.42	53.84	4.92	ppb
Cadmium	106-1	-0.58	0.51	-0.51	-0.19		ppb
Cadmium	108-1	0.01	0.01	-0.02	0.00		ppb
Cadmium	111-1	0.01	0.03	0.00	0.01	159.86	ppb
Calcium	43-1	39255.37	39154.47	38571.36	38993.73	0.95	ppb
Calcium	44-1	39772.65	39679.65	39420.20	39624.17	0.46	ppb
Chromium	52-2	0.19	0.18	0.15	0.18	10.02	ppb
Cobalt	59-2	0.00	0.00	0.00	0.00	143.76	ppb
Copper	63-2	-0.20	-0.20	-0.21	-0.20		ppb
Dysprosium	156-2						cps
Dysprosium	156-1						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-2						cps
Gadolinium	160-1						cps
Holmium	165-1						%
Holmium	165-2						%
Indium	115-2						%
Indium	115-1						%
Iron	56-2	3.17	3.24	3.18	3.20	1.30	ppb
Iron	57-2	9.53	10.14	9.17	9.61	5.12	ppb
Lead	206-1	0.09	0.09	0.07	0.08	12.92	ppb
Lead	207-1	0.04	0.04	0.06	0.05	24.87	ppb
Lead	208-1	0.07	0.06	0.06	0.06	2.17	ppb
Lithium	6-1						%
Magnesium	24-2	4694.48	4657.57	4737.21	4696.42	0.85	ppb
Manganese	55-2	0.26	0.28	0.28	0.28	3.56	ppb

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2562-04	Instrumnet Name :	P7
Client Sample ID :	0232	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 14:22:22	DataFile Name :	032SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Molybdenum	94-1	0.10	0.11	0.13	0.11	10.55	ppb
Molybdenum	95-1	0.17	0.18	0.25	0.20	22.57	ppb
Molybdenum	96-1	0.12	0.18	0.18	0.16	22.17	ppb
Molybdenum	97-1	0.13	0.17	0.23	0.18	29.99	ppb
Molybdenum	98-1	0.15	0.17	0.26	0.19	30.27	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.08	0.07	0.07	0.07	8.25	ppb
Phosphorus	31-2	-5.65	-11.75	9.71	-2.56		ppb
Potassium	39-2	16220.53	16128.04	16203.28	16183.95	0.30	ppb
Rhodium	103-1						%
Rhodium	103-2						%
Scandium	45-1						%
Scandium	45-2						%
Selenium	82-1	0.48	-0.98	-0.80	-0.43		ppb
Selenium	77-2	0.00	0.53	0.53	0.35	86.60	ppb
Selenium	78-2	-0.30	0.80	0.83	0.44	145.91	ppb
Silicon	28-1	23.63	23.99	22.49	23.37	3.36	ppb
Silver	109-1	0.01	0.02	0.01	0.01	21.91	ppb
Silver	107-1	0.01	0.02	0.01	0.01	20.75	ppb
Sodium	23-2	24213.31	24157.49	24610.66	24327.15	1.02	ppb
Strontium	86-1	9.84	9.92	9.52	9.76	2.16	ppb
Strontium	88-1	9.99	10.00	9.94	9.98	0.32	ppb
Sulfur	34-1	-269.56	-343.56	-215.39	-276.17		ppb
Terbium	159-1						%
Terbium	159-2						%
Thallium	203-1	0.01	0.01	0.01	0.01	41.13	ppb
Thallium	205-1	0.01	0.01	0.01	0.01	20.43	ppb
Tin	118-1	1.81	1.88	1.89	1.86	2.23	ppb
Titanium	47-1	0.22	0.21	0.21	0.21	2.11	ppb
Uranium	238-1	0.03	0.03	0.03	0.03	4.72	ppb
Vanadium	51-2	0.02	0.02	0.04	0.03	29.04	ppb
Yttrium	89-1						%
Yttrium	89-2						%
Zinc	66-2	0.30	0.26	0.19	0.25	22.68	ppb
Zirconium	90-1	0.09	0.08	0.09	0.09	8.12	ppb

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2562-04	Instrumnet Name :	P7
Client Sample ID :	0232	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 14:22:22	DataFile Name :	032SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Zirconium	91-1	0.08	0.08	0.10	0.09	10.89	ppb

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On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	PB98211BS	Instrumnet Name :	P7
Client Sample ID :	PB98211BS	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 14:25:50	DataFile Name :	033SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	9539.34	9636.05	9480.18	9551.86	0.82	ppb
Antimony	121-1	498.40	495.84	497.77	497.34	0.27	ppb
Arsenic	75-2	500.56	501.09	497.61	499.75	0.38	ppb
Barium	135-1	2490.09	2497.31	2529.21	2505.54	0.83	ppb
Barium	137-1	2506.77	2493.16	2503.98	2501.30	0.29	ppb
Beryllium	9-1	498.37	495.91	500.09	498.12	0.42	ppb
Bismuth	209-1						%
Bismuth	209-2						%
Boron	10-1	502.29	504.20	511.60	506.03	0.97	ppb
Boron	11-1	498.20	504.58	510.49	504.43	1.22	ppb
Cadmium	108-1	508.55	511.01	514.23	511.27	0.56	ppb
Cadmium	111-1	500.44	509.39	503.94	504.59	0.89	ppb
Cadmium	106-1	502.66	507.42	506.29	505.46	0.49	ppb
Calcium	43-1	48687.52	48095.19	47946.47	48243.06	0.81	ppb
Calcium	44-1	48685.15	48507.52	48424.94	48539.21	0.27	ppb
Chromium	52-2	506.49	508.97	501.77	505.74	0.72	ppb
Cobalt	59-2	503.43	504.22	506.30	504.65	0.29	ppb
Copper	63-2	1042.49	1044.26	1042.26	1043.01	0.10	ppb
Dysprosium	156-2						cps
Dysprosium	156-1						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-2						cps
Gadolinium	160-1						cps
Holmium	165-1						%
Holmium	165-2						%
Indium	115-2						%
Indium	115-1						%
Iron	56-2	25418.95	25563.57	25470.41	25484.31	0.29	ppb
Iron	57-2	25070.60	25069.86	25190.62	25110.36	0.28	ppb
Lead	206-1	493.00	484.39	484.95	487.45	0.99	ppb
Lead	207-1	488.10	481.39	485.17	484.89	0.69	ppb
Lead	208-1	494.50	488.75	489.58	490.94	0.63	ppb
Lithium	6-1						%
Magnesium	24-2	50207.37	50414.91	49874.47	50165.58	0.54	ppb
Manganese	55-2	1010.96	1015.58	1016.69	1014.41	0.30	ppb

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On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	PB98211BS	Instrumnet Name :	P7
Client Sample ID :	PB98211BS	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 14:25:50	DataFile Name :	033SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Molybdenum	94-1	498.07	498.94	499.19	498.73	0.12	ppb
Molybdenum	95-1	492.07	493.45	492.49	492.67	0.14	ppb
Molybdenum	96-1	488.52	490.61	500.79	493.31	1.33	ppb
Molybdenum	97-1	492.82	489.84	493.33	492.00	0.38	ppb
Molybdenum	98-1	503.31	495.28	500.83	499.81	0.82	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	513.91	515.74	517.57	515.74	0.35	ppb
Phosphorus	31-2	9967.38	10045.38	10151.60	10054.79	0.92	ppb
Potassium	39-2	24073.00	24268.74	24270.56	24204.10	0.47	ppb
Rhodium	103-1						%
Rhodium	103-2						%
Scandium	45-2						%
Scandium	45-1						%
Selenium	82-1	506.82	503.91	504.98	505.24	0.29	ppb
Selenium	77-2	525.44	498.95	501.74	508.71	2.86	ppb
Selenium	78-2	507.62	510.03	494.47	504.04	1.66	ppb
Silicon	28-1	509.36	514.60	511.15	511.70	0.52	ppb
Silver	107-1	506.60	510.71	511.88	509.73	0.54	ppb
Silver	109-1	509.10	513.09	510.39	510.86	0.40	ppb
Sodium	23-2	50204.83	50940.03	50194.50	50446.45	0.85	ppb
Strontium	86-1	488.77	490.99	493.37	491.04	0.47	ppb
Strontium	88-1	503.61	500.33	504.96	502.96	0.47	ppb
Sulfur	34-1	10462.43	10324.09	10075.83	10287.45	1.90	ppb
Terbium	159-1						%
Terbium	159-2						%
Thallium	203-1	506.36	501.10	489.67	499.04	1.71	ppb
Thallium	205-1	505.73	500.43	496.69	500.95	0.91	ppb
Tin	118-1	503.84	503.35	508.24	505.15	0.53	ppb
Titanium	47-1	494.03	493.01	494.35	493.80	0.14	ppb
Uranium	238-1	487.86	485.51	486.52	486.63	0.24	ppb
Vanadium	51-2	504.04	503.57	504.02	503.88	0.05	ppb
Yttrium	89-1						%
Yttrium	89-2						%
Zinc	66-2	1028.28	1032.27	1025.83	1028.79	0.32	ppb
Zirconium	90-1	500.98	498.54	498.68	499.40	0.27	ppb

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	PB98211BS	Instrumnet Name :	P7
Client Sample ID :	PB98211BS	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 14:25:50	DataFile Name :	033SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Zirconium	91-1	493.93	490.49	492.16	492.19	0.35	ppb

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	CCV65	Instrumnet Name :	P7
Client Sample ID :	CCV65	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 14:29:12	DataFile Name :	034CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	9594.24	9446.02	9540.67	9526.98	0.79	ppb
Antimony	121-1	506.85	503.40	502.14	504.13	0.48	ppb
Arsenic	75-2	498.35	504.65	502.04	501.68	0.63	ppb
Barium	135-1	2516.22	2521.15	2553.33	2530.23	0.80	ppb
Barium	137-1	2530.93	2512.27	2537.62	2526.94	0.52	ppb
Beryllium	9-1	502.93	508.93	508.72	506.86	0.67	ppb
Bismuth	209-1						%
Bismuth	209-2						%
Boron	10-1	498.27	517.88	523.39	513.18	2.57	ppb
Boron	11-1	498.31	514.36	523.34	512.00	2.48	ppb
Cadmium	106-1	507.30	511.32	504.50	507.71	0.68	ppb
Cadmium	108-1	511.12	512.97	510.07	511.39	0.29	ppb
Cadmium	111-1	510.28	509.24	511.05	510.19	0.18	ppb
Calcium	43-1	48143.79	48267.77	48297.13	48236.23	0.17	ppb
Calcium	44-1	48775.49	49267.23	48762.53	48935.08	0.59	ppb
Chromium	52-2	505.88	502.14	505.49	504.51	0.41	ppb
Cobalt	59-2	501.43	501.00	504.44	502.29	0.37	ppb
Copper	63-2	1046.29	1027.48	1034.23	1036.00	0.92	ppb
Dysprosium	156-2						cps
Dysprosium	156-1						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-2						cps
Gadolinium	160-1						cps
Holmium	165-2						%
Holmium	165-1						%
Indium	115-1						%
Indium	115-2						%
Iron	56-2	25545.95	25124.74	25513.13	25394.61	0.92	ppb
Iron	57-2	25083.48	24868.94	25177.17	25043.20	0.63	ppb
Lead	206-1	486.44	489.42	489.80	488.55	0.38	ppb
Lead	207-1	485.86	487.14	487.04	486.68	0.15	ppb
Lead	208-1	490.63	490.25	496.16	492.35	0.67	ppb
Lithium	6-1						%
Magnesium	24-2	50598.52	50213.24	49888.92	50233.56	0.71	ppb
Manganese	55-2	1013.48	1010.28	1019.43	1014.40	0.46	ppb

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	CCV65	Instrumnet Name :	P7
Client Sample ID :	CCV65	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 14:29:12	DataFile Name :	034CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Molybdenum	94-1	496.90	501.81	497.78	498.83	0.52	ppb
Molybdenum	95-1	494.02	492.12	492.74	492.96	0.20	ppb
Molybdenum	96-1	492.79	499.79	507.03	499.87	1.42	ppb
Molybdenum	97-1	495.82	492.54	493.84	494.07	0.33	ppb
Molybdenum	98-1	496.22	495.93	504.19	498.78	0.94	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	511.50	508.72	513.13	511.12	0.44	ppb
Phosphorus	31-2	9959.12	10035.02	10123.61	10039.25	0.82	ppb
Potassium	39-2	24346.92	24273.34	24313.40	24311.22	0.15	ppb
Rhodium	103-2						%
Rhodium	103-1						%
Scandium	45-1						%
Scandium	45-2						%
Selenium	77-2	504.83	511.22	521.31	512.45	1.62	ppb
Selenium	78-2	512.06	512.30	503.80	509.39	0.95	ppb
Selenium	82-1	505.29	509.40	511.46	508.72	0.62	ppb
Silicon	28-1	493.12	491.40	493.20	492.57	0.21	ppb
Silver	109-1	513.49	508.80	512.25	511.51	0.48	ppb
Silver	107-1	507.56	513.37	515.28	512.07	0.78	ppb
Sodium	23-2	50776.45	49928.28	50295.32	50333.35	0.85	ppb
Strontium	86-1	489.54	488.87	493.72	490.71	0.54	ppb
Strontium	88-1	502.22	501.46	502.45	502.04	0.10	ppb
Sulfur	34-1	9797.37	9644.18	9959.68	9800.41	1.61	ppb
Terbium	159-1						%
Terbium	159-2						%
Thallium	203-1	493.33	495.74	498.74	495.94	0.55	ppb
Thallium	205-1	496.00	495.65	502.72	498.12	0.80	ppb
Tin	118-1	511.87	508.66	505.97	508.84	0.58	ppb
Titanium	47-1	497.27	492.83	493.75	494.62	0.47	ppb
Uranium	238-1	488.24	484.90	490.31	487.82	0.56	ppb
Vanadium	51-2	504.94	500.43	505.15	503.51	0.53	ppb
Yttrium	89-2						%
Yttrium	89-1						%
Zinc	66-2	1030.34	1026.33	1031.05	1029.24	0.25	ppb
Zirconium	90-1	495.74	503.06	500.33	499.71	0.74	ppb

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	CCV65	Instrumnet Name :	P7
Client Sample ID :	CCV65	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 14:29:12	DataFile Name :	034CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Zirconium	91-1	488.01	494.75	490.45	491.07	0.70	ppb

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	CCB65	Instrumnet Name :	P7
Client Sample ID :	CCB65	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 14:50:23	DataFile Name :	035CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	0.26	0.36	0.14	0.25	43.98	ppb
Antimony	121-1	0.66	0.96	1.28	0.97	32.11	ppb
Arsenic	75-2	0.07	0.05	0.05	0.06	17.04	ppb
Barium	135-1	0.01	0.01	0.02	0.01	55.38	ppb
Barium	137-1	-0.02	0.00	0.00	0.00		ppb
Beryllium	9-1	0.00	0.01	0.01	0.00	162.43	ppb
Bismuth	209-1						%
Bismuth	209-2						%
Boron	10-1	3.22	3.85	2.71	3.26	17.50	ppb
Boron	11-1	3.05	3.31	3.24	3.20	4.23	ppb
Cadmium	106-1	-1.18	-1.38	-0.21	-0.93		ppb
Cadmium	108-1	0.00	0.00	-0.06	-0.02		ppb
Cadmium	111-1	-0.03	-0.04	0.00	-0.02		ppb
Calcium	43-1	-2.13	-1.13	0.51	-0.92		ppb
Calcium	44-1	-6.47	-7.60	-7.11	-7.06		ppb
Chromium	52-2	0.02	0.01	-0.01	0.01	227.39	ppb
Cobalt	59-2	0.00	0.00	0.00	0.00		ppb
Copper	63-2	-0.39	-0.38	-0.39	-0.39		ppb
Dysprosium	156-2						cps
Dysprosium	156-1						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-2						cps
Gadolinium	160-1						cps
Holmium	165-1						%
Holmium	165-2						%
Indium	115-2						%
Indium	115-1						%
Iron	56-2	0.03	0.09	0.03	0.05	72.51	ppb
Iron	57-2	0.19	-0.56	-0.35	-0.24		ppb
Lead	206-1	0.02	-0.01	0.02	0.01	158.64	ppb
Lead	207-1	0.00	0.00	0.00	0.00		ppb
Lead	208-1	0.01	0.01	0.00	0.01	40.37	ppb
Lithium	6-1						%
Magnesium	24-2	0.14	0.19	0.02	0.12	78.87	ppb
Manganese	55-2	-0.01	-0.01	-0.01	-0.01		ppb

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	CCB65	Instrumnet Name :	P7
Client Sample ID :	CCB65	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 14:50:23	DataFile Name :	035CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Molybdenum	94-1	0.03	0.04	0.08	0.05	53.22	ppb
Molybdenum	95-1	0.10	0.17	0.25	0.17	43.28	ppb
Molybdenum	96-1	0.06	0.13	0.18	0.12	48.56	ppb
Molybdenum	97-1	0.09	0.14	0.21	0.15	43.09	ppb
Molybdenum	98-1	0.11	0.15	0.23	0.16	38.88	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.03	-0.02	-0.03	-0.03		ppb
Phosphorus	31-2	10.98	-4.91	4.28	3.45	231.08	ppb
Potassium	39-2	9.28	6.38	4.37	6.68	36.92	ppb
Rhodium	103-2						%
Rhodium	103-1						%
Scandium	45-1						%
Scandium	45-2						%
Selenium	77-2	0.00	0.54	1.05	0.53	99.27	ppb
Selenium	78-2	0.07	0.34	0.22	0.21	62.68	ppb
Selenium	82-1	-0.99	-1.59	0.17	-0.80		ppb
Silicon	28-1	-4.14	-3.57	-4.57	-4.09		ppb
Silver	107-1	0.01	0.01	0.01	0.01	17.92	ppb
Silver	109-1	0.00	0.01	0.01	0.01	46.66	ppb
Sodium	23-2	8.88	9.05	6.96	8.30	14.03	ppb
Strontium	86-1	-0.02	0.00	-0.06	-0.02		ppb
Strontium	88-1	0.00	0.00	0.00	0.00	790.16	ppb
Sulfur	34-1	-415.84	-390.65	-582.09	-462.86		ppb
Terbium	159-2						%
Terbium	159-1						%
Thallium	203-1	0.00	0.00	0.01	0.00	122.11	ppb
Thallium	205-1	0.00	0.00	0.00	0.00	8.39	ppb
Tin	118-1	0.02	0.03	0.05	0.04	34.18	ppb
Titanium	47-1	-0.04	-0.01	0.01	-0.02		ppb
Uranium	238-1	-0.01	-0.01	0.00	-0.01		ppb
Vanadium	51-2	0.00	-0.01	0.00	0.00		ppb
Yttrium	89-2						%
Yttrium	89-1						%
Zinc	66-2	-0.06	0.01	0.04	0.00		ppb
Zirconium	90-1	0.00	0.01	0.01	0.01	93.44	ppb

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	CCB65	Instrumnet Name :	P7
Client Sample ID :	CCB65	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 14:50:23	DataFile Name :	035CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Zirconium	91-1	0.01	0.00	0.01	0.00	218.44	ppb

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	PB98303BL	Instrumnet Name :	P7
Client Sample ID :	PB98303BL	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 14:53:52	DataFile Name :	036CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	0.28	0.74	0.12	0.38	84.93	ppb
Antimony	121-1	0.19	0.27	0.31	0.26	23.01	ppb
Arsenic	75-2	0.02	0.03	0.03	0.03	10.41	ppb
Barium	135-1	0.00	-0.01	0.00	0.00		ppb
Barium	137-1	-0.02	-0.01	-0.01	-0.01		ppb
Beryllium	9-1	0.00	0.02	0.00	0.01	137.20	ppb
Bismuth	209-1						%
Bismuth	209-2						%
Boron	10-1	2.87	2.91	2.25	2.68	13.94	ppb
Boron	11-1	2.63	2.47	2.43	2.51	4.40	ppb
Cadmium	106-1	-1.29	-1.09	-1.01	-1.13		ppb
Cadmium	108-1	-0.03	-0.04	0.02	-0.02		ppb
Cadmium	111-1	-0.03	-0.03	-0.03	-0.03		ppb
Calcium	43-1	-0.97	2.36	-0.88	0.17	1128.70	ppb
Calcium	44-1	-5.81	-6.15	-5.73	-5.90		ppb
Chromium	52-2	0.01	0.01	0.00	0.01	53.06	ppb
Cobalt	59-2	-0.01	-0.01	-0.01	-0.01		ppb
Copper	63-2	-0.37	-0.36	-0.37	-0.37		ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-2						cps
Erbium	164-1						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-2						%
Holmium	165-1						%
Indium	115-1						%
Indium	115-2						%
Iron	56-2	0.02	0.07	-0.02	0.02	199.08	ppb
Iron	57-2	0.48	0.03	-0.16	0.12	280.96	ppb
Lead	206-1	0.02	0.01	0.01	0.01	67.97	ppb
Lead	207-1	0.01	0.01	0.01	0.01	24.91	ppb
Lead	208-1	0.01	0.01	0.01	0.01	9.04	ppb
Lithium	6-1						%
Magnesium	24-2	-0.09	0.02	0.16	0.03	430.43	ppb
Manganese	55-2	-0.01	-0.02	-0.01	-0.01		ppb

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On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	PB98303BL	Instrumnet Name :	P7
Client Sample ID :	PB98303BL	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 14:53:52	DataFile Name :	036CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Molybdenum	94-1	0.00	0.01	0.04	0.02	125.94	ppb
Molybdenum	95-1	0.02	0.06	0.07	0.05	57.94	ppb
Molybdenum	96-1	0.02	0.03	0.06	0.04	53.19	ppb
Molybdenum	97-1	0.02	0.04	0.09	0.05	73.13	ppb
Molybdenum	98-1	0.02	0.04	0.08	0.04	70.41	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.01	-0.01	-0.04	-0.01		ppb
Phosphorus	31-2	12.96	-0.40	-0.77	3.93	199.14	ppb
Potassium	39-2	8.68	8.29	6.34	7.77	16.15	ppb
Rhodium	103-2						%
Rhodium	103-1						%
Scandium	45-1						%
Scandium	45-2						%
Selenium	77-2	0.85	0.00	0.28	0.38	115.00	ppb
Selenium	78-2	-0.41	1.07	0.30	0.32	230.80	ppb
Selenium	82-1	-0.99	0.47	-0.62	-0.38		ppb
Silicon	28-1	0.66	0.04	0.08	0.26	132.22	ppb
Silver	109-1	0.00	0.01	0.00	0.01	37.20	ppb
Silver	107-1	0.00	0.01	0.00	0.00	66.02	ppb
Sodium	23-2	10.36	10.29	9.31	9.99	5.89	ppb
Strontium	86-1	0.08	0.03	0.01	0.04	89.49	ppb
Strontium	88-1	0.00	0.00	0.00	0.00	859.69	ppb
Sulfur	34-1	176.63	180.03	152.29	169.65	8.92	ppb
Terbium	159-1						%
Terbium	159-2						%
Thallium	203-1	0.00	0.00	0.01	0.00	105.73	ppb
Thallium	205-1	0.00	0.00	0.00	0.00	3.71	ppb
Tin	118-1	0.01	0.03	0.03	0.02	37.89	ppb
Titanium	47-1	0.02	0.00	-0.01	0.00	850.78	ppb
Uranium	238-1	-0.01	-0.01	-0.01	-0.01		ppb
Vanadium	51-2	-0.01	0.00	0.00	0.00		ppb
Yttrium	89-2						%
Yttrium	89-1						%
Zinc	66-2	0.06	0.08	0.18	0.11	57.35	ppb
Zirconium	90-1	0.01	0.00	0.00	0.00	109.95	ppb

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On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	PB98303BL	Instrumnet Name :	P7
Client Sample ID :	PB98303BL	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 14:53:52	DataFile Name :	036CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Zirconium	91-1	0.01	0.01	0.01	0.01	26.00	ppb

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On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	PB98303BS	Instrumnet Name :	P7
Client Sample ID :	PB98303BS	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 14:57:23	DataFile Name :	037CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	9489.35	9612.63	9492.75	9531.58	0.74	ppb
Antimony	121-1	502.43	496.90	490.79	496.71	1.17	ppb
Arsenic	75-2	501.71	499.61	501.61	500.97	0.24	ppb
Barium	135-1	2532.97	2524.60	2483.51	2513.69	1.05	ppb
Barium	137-1	2510.15	2540.92	2474.12	2508.40	1.33	ppb
Beryllium	9-1	502.94	509.15	512.16	508.09	0.93	ppb
Bismuth	209-2						%
Bismuth	209-1						%
Boron	10-1	493.16	495.77	498.99	495.98	0.59	ppb
Boron	11-1	490.08	498.61	503.55	497.41	1.37	ppb
Cadmium	111-1	501.85	503.99	500.36	502.06	0.36	ppb
Cadmium	106-1	501.76	489.46	500.57	497.27	1.36	ppb
Cadmium	108-1	502.03	505.96	500.79	502.93	0.54	ppb
Calcium	43-1	47833.80	48068.25	47933.98	47945.35	0.25	ppb
Calcium	44-1	47697.96	48531.61	48431.57	48220.38	0.94	ppb
Chromium	52-2	502.39	512.07	504.66	506.37	1.00	ppb
Cobalt	59-2	501.85	512.39	502.88	505.71	1.15	ppb
Copper	63-2	1032.56	1047.64	1027.79	1035.99	1.00	ppb
Dysprosium	156-2						cps
Dysprosium	156-1						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1						%
Holmium	165-2						%
Indium	115-2						%
Indium	115-1						%
Iron	56-2	25052.33	25991.47	25284.07	25442.62	1.92	ppb
Iron	57-2	24898.85	25614.83	24923.14	25145.61	1.62	ppb
Lead	206-1	494.71	497.80	479.97	490.83	1.94	ppb
Lead	207-1	489.29	488.51	478.83	485.54	1.20	ppb
Lead	208-1	493.52	496.28	485.09	491.63	1.19	ppb
Lithium	6-1						%
Magnesium	24-2	49883.12	50828.81	50029.04	50246.99	1.01	ppb
Manganese	55-2	1010.01	1035.05	1010.12	1018.39	1.42	ppb

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	PB98303BS	Instrumnet Name :	P7
Client Sample ID :	PB98303BS	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 14:57:23	DataFile Name :	037CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Molybdenum	94-1	503.97	491.24	502.80	499.33	1.41	ppb
Molybdenum	95-1	499.31	486.38	498.67	494.79	1.47	ppb
Molybdenum	96-1	494.32	487.16	495.73	492.40	0.93	ppb
Molybdenum	97-1	495.07	492.04	497.73	494.95	0.58	ppb
Molybdenum	98-1	506.12	493.68	500.39	500.06	1.25	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	510.54	521.51	509.58	513.88	1.29	ppb
Phosphorus	31-2	9847.46	10058.69	9690.59	9865.58	1.87	ppb
Potassium	39-2	24116.29	24529.38	24201.41	24282.36	0.90	ppb
Rhodium	103-1						%
Rhodium	103-2						%
Scandium	45-1						%
Scandium	45-2						%
Selenium	82-1	501.28	494.32	503.36	499.65	0.95	ppb
Selenium	77-2	489.90	490.22	490.64	490.25	0.08	ppb
Selenium	78-2	500.83	494.29	504.70	499.94	1.05	ppb
Silicon	28-1	495.95	505.67	513.53	505.05	1.74	ppb
Silver	109-1	510.27	512.96	503.11	508.78	1.00	ppb
Silver	107-1	513.31	507.69	504.22	508.41	0.90	ppb
Sodium	23-2	49675.93	50757.36	49860.88	50098.06	1.15	ppb
Strontium	86-1	496.97	488.15	497.78	494.30	1.08	ppb
Strontium	88-1	509.15	499.89	505.14	504.72	0.92	ppb
Sulfur	34-1	9771.45	9999.57	9970.36	9913.79	1.25	ppb
Terbium	159-2						%
Terbium	159-1						%
Thallium	203-1	495.40	503.93	488.60	495.98	1.55	ppb
Thallium	205-1	501.59	508.66	489.90	500.05	1.90	ppb
Tin	118-1	503.77	506.39	496.66	502.27	1.00	ppb
Titanium	47-1	488.17	498.27	496.42	494.28	1.09	ppb
Uranium	238-1	486.86	486.97	482.29	485.37	0.55	ppb
Vanadium	51-2	504.00	503.33	506.22	504.52	0.30	ppb
Yttrium	89-1						%
Yttrium	89-2						%
Zinc	66-2	1018.20	1036.40	1023.02	1025.87	0.92	ppb
Zirconium	90-1	498.23	498.64	504.08	500.32	0.65	ppb

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	PB98303BS	Instrumnet Name :	P7
Client Sample ID :	PB98303BS	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 14:57:23	DataFile Name :	037CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Zirconium	91-1	495.72	485.99	498.20	493.30	1.31	ppb

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2675-01	Instrumnet Name :	P7
Client Sample ID :	ROOM-109-KITCHENSA	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 15:00:46	DataFile Name :	038SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	12.57	12.77	17.20	14.18	18.45	ppb
Antimony	121-1	1.46	1.65	1.80	1.64	10.37	ppb
Arsenic	75-2	0.73	0.75	0.79	0.75	4.21	ppb
Barium	135-1	17.29	17.38	16.58	17.09	2.55	ppb
Barium	137-1	17.35	17.63	16.58	17.19	3.15	ppb
Beryllium	9-1	0.05	0.06	0.04	0.05	13.08	ppb
Bismuth	209-1						%
Bismuth	209-2						%
Boron	10-1	18.25	18.67	17.81	18.25	2.35	ppb
Boron	11-1	19.15	18.05	17.37	18.19	4.96	ppb
Cadmium	106-1	-1.01	-1.65	-1.30	-1.32		ppb
Cadmium	108-1	0.16	0.07	0.32	0.19	68.65	ppb
Cadmium	111-1	0.05	0.02	-0.01	0.02	172.53	ppb
Calcium	43-1	6429.58	6264.16	6253.49	6315.74	1.56	ppb
Calcium	44-1	6465.48	6387.04	6286.02	6379.51	1.41	ppb
Chromium	52-2	0.23	0.14	0.16	0.18	24.68	ppb
Cobalt	59-2	0.05	0.04	0.04	0.04	4.84	ppb
Copper	63-2	187.68	186.70	184.02	186.13	1.02	ppb
Dysprosium	156-2						cps
Dysprosium	156-1						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-2						cps
Gadolinium	160-1						cps
Holmium	165-2						%
Holmium	165-1						%
Indium	115-1						%
Indium	115-2						%
Iron	56-2	74.40	74.63	72.60	73.88	1.50	ppb
Iron	57-2	74.82	78.34	74.80	75.99	2.68	ppb
Lead	206-1	3.58	3.48	3.29	3.45	4.18	ppb
Lead	207-1	3.21	3.14	3.05	3.14	2.51	ppb
Lead	208-1	3.37	3.32	3.16	3.28	3.28	ppb
Lithium	6-1						%
Magnesium	24-2	1513.46	1520.39	1521.37	1518.41	0.28	ppb
Manganese	55-2	9.49	9.52	9.35	9.46	0.96	ppb

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2675-01	Instrumnet Name :	P7
Client Sample ID :	ROOM-109-KITCHENSA	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 15:00:46	DataFile Name :	038SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Molybdenum	94-1	0.43	0.44	0.60	0.49	19.37	ppb
Molybdenum	95-1	0.62	0.82	1.13	0.85	30.20	ppb
Molybdenum	96-1	0.59	0.75	0.99	0.78	26.09	ppb
Molybdenum	97-1	0.62	0.82	1.13	0.86	30.43	ppb
Molybdenum	98-1	0.62	0.84	1.14	0.87	30.18	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	3.52	3.46	3.45	3.48	1.09	ppb
Phosphorus	31-2	504.28	451.62	482.67	479.52	5.52	ppb
Potassium	39-2	610.33	604.37	596.24	603.65	1.17	ppb
Rhodium	103-2						%
Rhodium	103-1						%
Scandium	45-1						%
Scandium	45-2						%
Selenium	77-2	1.32	0.80	1.32	1.14	26.42	ppb
Selenium	78-2	1.12	0.52	0.55	0.73	46.23	ppb
Selenium	82-1	0.72	0.40	0.22	0.44	56.19	ppb
Silicon	28-1	911.91	892.74	907.49	904.05	1.11	ppb
Silver	109-1	0.10	0.08	0.08	0.09	11.58	ppb
Silver	107-1	0.10	0.08	0.09	0.09	11.47	ppb
Sodium	23-2	10901.91	10709.83	10753.36	10788.37	0.93	ppb
Strontium	86-1	18.83	18.55	18.68	18.69	0.73	ppb
Strontium	88-1	19.22	18.97	18.68	18.96	1.42	ppb
Sulfur	34-1	662.00	430.74	435.01	509.25	25.98	ppb
Terbium	159-1						%
Terbium	159-2						%
Thallium	203-1	0.11	0.10	0.09	0.10	8.53	ppb
Thallium	205-1	0.12	0.10	0.09	0.10	14.59	ppb
Tin	118-1	2.04	2.05	2.13	2.08	2.33	ppb
Titanium	47-1	0.50	0.51	0.52	0.51	1.72	ppb
Uranium	238-1	0.05	0.04	0.03	0.04	28.94	ppb
Vanadium	51-2	0.06	0.09	0.06	0.07	25.02	ppb
Yttrium	89-2						%
Yttrium	89-1						%
Zinc	66-2	530.03	528.40	524.71	527.71	0.52	ppb
Zirconium	90-1	0.32	0.32	0.34	0.33	4.31	ppb

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2675-01	Instrumnet Name :	P7
Client Sample ID :	ROOM-109-KITCHENSA	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 15:00:46	DataFile Name :	038SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Zirconium	91-1	0.27	0.34	0.36	0.32	15.57	ppb

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2675-02	Instrumnet Name :	P7
Client Sample ID :	ROOM-109-KITCHENSA	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 15:04:15	DataFile Name :	039SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	21.23	26.54	22.05	23.27	12.29	ppb
Antimony	121-1	0.47	0.56	0.66	0.56	16.79	ppb
Arsenic	75-2	0.43	0.56	0.48	0.49	14.15	ppb
Barium	135-1	15.70	16.49	17.09	16.43	4.26	ppb
Barium	137-1	15.90	16.73	16.98	16.54	3.42	ppb
Beryllium	9-1	0.00	0.03	0.01	0.02	71.91	ppb
Bismuth	209-1						%
Bismuth	209-2						%
Boron	10-1	12.02	10.68	11.15	11.28	6.05	ppb
Boron	11-1	11.92	11.63	12.18	11.91	2.29	ppb
Cadmium	106-1	-1.88	-1.14	-0.70	-1.24		ppb
Cadmium	108-1	-0.03	-0.02	0.06	0.00	1213.58	ppb
Cadmium	111-1	-0.03	-0.02	-0.01	-0.02		ppb
Calcium	43-1	6076.78	6259.41	6221.67	6185.95	1.56	ppb
Calcium	44-1	6224.53	6364.26	6314.01	6300.93	1.12	ppb
Chromium	52-2	0.17	0.18	0.17	0.17	0.61	ppb
Cobalt	59-2	0.03	0.03	0.04	0.03	17.99	ppb
Copper	63-2	1974.42	1978.43	2007.28	1986.71	0.90	ppb
Dysprosium	156-2						cps
Dysprosium	156-1						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-2						cps
Gadolinium	160-1						cps
Holmium	165-1						%
Holmium	165-2						%
Indium	115-2						%
Indium	115-1						%
Iron	56-2	114.95	112.94	112.84	113.58	1.05	ppb
Iron	57-2	115.95	114.07	111.94	113.99	1.76	ppb
Lead	206-1	13.77	13.91	13.84	13.84	0.52	ppb
Lead	207-1	12.54	12.63	12.58	12.58	0.36	ppb
Lead	208-1	13.10	13.25	13.19	13.18	0.58	ppb
Lithium	6-1						%
Magnesium	24-2	1478.53	1479.06	1484.85	1480.81	0.24	ppb
Manganese	55-2	20.66	20.80	20.98	20.81	0.76	ppb

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2675-02	Instrumnet Name :	P7
Client Sample ID :	ROOM-109-KITCHENSA	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 15:04:15	DataFile Name :	039SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Molybdenum	94-1	0.11	0.15	0.20	0.15	30.74	ppb
Molybdenum	95-1	0.20	0.25	0.37	0.27	32.65	ppb
Molybdenum	96-1	0.15	0.23	0.30	0.23	31.28	ppb
Molybdenum	97-1	0.19	0.28	0.34	0.27	28.64	ppb
Molybdenum	98-1	0.17	0.28	0.37	0.28	36.21	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.55	0.54	0.57	0.55	2.50	ppb
Phosphorus	31-2	647.36	667.56	687.99	667.64	3.04	ppb
Potassium	39-2	595.73	589.65	598.38	594.59	0.75	ppb
Rhodium	103-1						%
Rhodium	103-2						%
Scandium	45-1						%
Scandium	45-2						%
Selenium	82-1	-0.36	0.02	0.16	-0.06		ppb
Selenium	77-2	0.26	0.00	0.53	0.27	100.17	ppb
Selenium	78-2	0.03	-0.08	1.06	0.34	185.01	ppb
Silicon	28-1	838.46	847.85	847.22	844.51	0.62	ppb
Silver	109-1	0.16	0.15	0.17	0.16	5.86	ppb
Silver	107-1	0.16	0.15	0.17	0.16	6.57	ppb
Sodium	23-2	10504.03	10587.79	10654.62	10582.15	0.71	ppb
Strontium	86-1	18.10	18.17	18.19	18.15	0.28	ppb
Strontium	88-1	18.29	18.50	18.41	18.40	0.58	ppb
Sulfur	34-1	611.22	1031.43	861.66	834.77	25.32	ppb
Terbium	159-1						%
Terbium	159-2						%
Thallium	203-1	0.02	0.02	0.03	0.02	18.31	ppb
Thallium	205-1	0.03	0.03	0.03	0.03	6.17	ppb
Tin	118-1	22.46	22.46	22.87	22.60	1.04	ppb
Titanium	47-1	2.07	1.03	14.23	5.78	127.01	ppb
Uranium	238-1	0.01	0.01	0.01	0.01	7.85	ppb
Vanadium	51-2	0.07	0.05	0.07	0.06	15.59	ppb
Yttrium	89-2						%
Yttrium	89-1						%
Zinc	66-2	58.82	58.41	59.32	58.85	0.77	ppb
Zirconium	90-1	0.11	0.11	0.19	0.14	32.52	ppb

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2675-02	Instrumnet Name :	P7
Client Sample ID :	ROOM-109-KITCHENSA	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 15:04:15	DataFile Name :	039SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Zirconium	91-1	0.10	0.13	0.13	0.12	15.82	ppb

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	PB98296BL	Instrumnet Name :	P7
Client Sample ID :	PB98296BL	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 15:07:43	DataFile Name :	040CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	0.13	0.13	0.40	0.22	70.73	ppb
Antimony	121-1	0.21	0.27	0.32	0.27	20.54	ppb
Arsenic	75-2	0.10	0.06	0.15	0.11	42.75	ppb
Barium	135-1	0.01	0.00	0.01	0.01	44.45	ppb
Barium	137-1	0.01	0.00	-0.01	0.00	1119.54	ppb
Beryllium	9-1	0.02	0.01	0.01	0.01	18.98	ppb
Bismuth	209-2						%
Bismuth	209-1						%
Boron	10-1	4.80	4.56	4.35	4.57	4.93	ppb
Boron	11-1	4.71	4.26	4.52	4.50	4.96	ppb
Cadmium	106-1	-0.09	-0.58	-1.46	-0.71		ppb
Cadmium	108-1	-0.03	-0.04	0.00	-0.02		ppb
Cadmium	111-1	0.00	-0.01	-0.04	-0.02		ppb
Calcium	43-1	0.03	-1.79	-0.53	-0.76		ppb
Calcium	44-1	-4.35	-5.76	-6.75	-5.62		ppb
Chromium	52-2	0.01	0.00	0.00	0.00	491.22	ppb
Cobalt	59-2	0.00	0.00	0.00	0.00	179.54	ppb
Copper	63-2	-0.20	-0.24	-0.23	-0.22		ppb
Dysprosium	156-2						cps
Dysprosium	156-1						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-2						cps
Gadolinium	160-1						cps
Holmium	165-1						%
Holmium	165-2						%
Indium	115-2						%
Indium	115-1						%
Iron	56-2	0.48	0.41	0.42	0.44	8.76	ppb
Iron	57-2	0.21	0.32	0.30	0.27	20.62	ppb
Lead	206-1	0.01	0.03	0.01	0.02	50.20	ppb
Lead	207-1	0.02	0.03	0.03	0.03	10.43	ppb
Lead	208-1	0.02	0.03	0.02	0.02	14.14	ppb
Lithium	6-1						%
Magnesium	24-2	0.18	0.07	0.31	0.19	62.22	ppb
Manganese	55-2	0.01	0.00	0.02	0.01	113.63	ppb

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	PB98296BL	Instrumnet Name :	P7
Client Sample ID :	PB98296BL	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 15:07:43	DataFile Name :	040CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Molybdenum	94-1	0.01	0.03	0.04	0.03	54.82	ppb
Molybdenum	95-1	0.07	0.11	0.18	0.12	45.41	ppb
Molybdenum	96-1	0.04	0.08	0.14	0.09	56.48	ppb
Molybdenum	97-1	0.06	0.12	0.14	0.11	39.32	ppb
Molybdenum	98-1	0.07	0.12	0.19	0.13	44.89	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.01	0.03	-0.02	0.00	13558.84	ppb
Phosphorus	31-2	2.22	-9.49	6.33	-0.31		ppb
Potassium	39-2	11.21	7.99	12.46	10.56	21.84	ppb
Rhodium	103-2						%
Rhodium	103-1						%
Scandium	45-1						%
Scandium	45-2						%
Selenium	77-2	0.00	0.29	0.00	0.10	173.21	ppb
Selenium	78-2	0.61	0.23	0.08	0.31	89.02	ppb
Selenium	82-1	-0.88	-1.00	-0.32	-0.73		ppb
Silicon	28-1	-1.00	-1.47	-1.15	-1.21		ppb
Silver	109-1	0.01	0.01	0.01	0.01	10.30	ppb
Silver	107-1	0.01	0.01	0.00	0.01	38.26	ppb
Sodium	23-2	14.50	14.55	15.02	14.69	1.98	ppb
Strontium	86-1	0.07	-0.02	-0.01	0.01	493.71	ppb
Strontium	88-1	0.00	0.00	0.00	0.00	16.09	ppb
Sulfur	34-1	289.76	231.18	55.90	192.28	63.29	ppb
Terbium	159-1						%
Terbium	159-2						%
Thallium	205-1	0.01	0.01	0.02	0.01	18.50	ppb
Thallium	203-1	0.01	0.01	0.01	0.01	16.48	ppb
Tin	118-1	0.08	0.09	0.12	0.10	24.56	ppb
Titanium	47-1	-0.02	-0.02	0.01	-0.01		ppb
Uranium	238-1	-0.01	0.00	0.00	0.00		ppb
Vanadium	51-2	0.00	0.00	0.00	0.00	2238.06	ppb
Yttrium	89-2						%
Yttrium	89-1						%
Zinc	66-2	0.13	0.12	0.11	0.12	11.77	ppb
Zirconium	90-1	0.00	0.00	0.00	0.00		ppb

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	PB98296BL	Instrumnet Name :	P7
Client Sample ID :	PB98296BL	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 15:07:43	DataFile Name :	040CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Zirconium	91-1	0.00	0.00	0.00	0.00		ppb

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	PB98296BS	Instrumnet Name :	P7
Client Sample ID :	PB98296BS	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 15:11:12	DataFile Name :	041CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	9558.36	9524.94	9449.51	9510.93	0.59	ppb
Antimony	121-1	502.91	500.79	497.69	500.46	0.52	ppb
Arsenic	75-2	503.51	506.17	497.79	502.49	0.85	ppb
Barium	135-1	2519.16	2498.90	2507.65	2508.57	0.41	ppb
Barium	137-1	2529.76	2500.39	2504.23	2511.46	0.64	ppb
Beryllium	9-1	501.77	503.12	501.69	502.19	0.16	ppb
Bismuth	209-1						%
Bismuth	209-2						%
Boron	10-1	478.70	493.54	497.10	489.78	1.99	ppb
Boron	11-1	481.98	489.93	498.34	490.08	1.67	ppb
Cadmium	106-1	513.44	510.06	510.07	511.19	0.38	ppb
Cadmium	108-1	513.67	508.81	508.44	510.31	0.57	ppb
Cadmium	111-1	512.40	510.36	512.55	511.77	0.24	ppb
Calcium	43-1	48199.09	48550.47	47731.09	48160.22	0.85	ppb
Calcium	44-1	48560.79	49085.52	47976.56	48540.96	1.14	ppb
Chromium	52-2	509.28	506.18	505.55	507.00	0.39	ppb
Cobalt	59-2	505.11	500.72	507.59	504.47	0.69	ppb
Copper	63-2	1046.37	1026.75	1037.78	1036.97	0.95	ppb
Dysprosium	156-2						cps
Dysprosium	156-1						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-2						cps
Gadolinium	160-1						cps
Holmium	165-1						%
Holmium	165-2						%
Indium	115-2						%
Indium	115-1						%
Iron	56-2	25606.88	25148.24	25707.02	25487.38	1.17	ppb
Iron	57-2	25189.30	24897.28	25250.30	25112.29	0.75	ppb
Lead	206-1	495.72	489.54	486.92	490.73	0.92	ppb
Lead	207-1	490.34	482.99	482.43	485.25	0.91	ppb
Lead	208-1	498.41	490.69	492.01	493.70	0.84	ppb
Lithium	6-1						%
Magnesium	24-2	50727.80	50480.03	49867.52	50358.45	0.88	ppb
Manganese	55-2	1015.41	1008.12	1015.91	1013.15	0.43	ppb

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	PB98296BS	Instrumnet Name :	P7
Client Sample ID :	PB98296BS	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 15:11:12	DataFile Name :	041CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Molybdenum	94-1	504.89	488.36	496.03	496.43	1.67	ppb
Molybdenum	95-1	500.60	488.48	490.64	493.24	1.31	ppb
Molybdenum	96-1	495.14	486.97	486.74	489.62	0.98	ppb
Molybdenum	97-1	497.56	492.66	489.56	493.26	0.82	ppb
Molybdenum	98-1	510.73	496.39	497.77	501.63	1.58	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	515.45	509.44	512.30	512.40	0.59	ppb
Phosphorus	31-2	10214.99	10041.78	9893.08	10049.95	1.60	ppb
Potassium	39-2	24348.93	24116.05	24242.95	24235.98	0.48	ppb
Rhodium	103-2						%
Rhodium	103-1						%
Scandium	45-1						%
Scandium	45-2						%
Selenium	77-2	498.45	524.60	495.95	506.33	3.13	ppb
Selenium	78-2	508.60	494.44	509.85	504.30	1.70	ppb
Selenium	82-1	507.01	503.25	501.72	503.99	0.54	ppb
Silicon	28-1	496.57	508.98	510.29	505.28	1.50	ppb
Silver	109-1	522.11	513.89	512.02	516.01	1.04	ppb
Silver	107-1	518.02	515.31	511.86	515.06	0.60	ppb
Sodium	23-2	51297.77	50009.56	50486.54	50597.96	1.29	ppb
Strontium	86-1	494.51	490.38	492.16	492.35	0.42	ppb
Strontium	88-1	505.92	502.12	504.88	504.31	0.39	ppb
Sulfur	34-1	10338.50	10336.35	10139.85	10271.57	1.11	ppb
Terbium	159-1						%
Terbium	159-2						%
Thallium	203-1	507.76	499.62	496.27	501.22	1.18	ppb
Thallium	205-1	504.08	498.74	499.21	500.68	0.59	ppb
Tin	118-1	512.70	509.78	511.83	511.44	0.29	ppb
Titanium	47-1	499.86	499.67	495.75	498.43	0.47	ppb
Uranium	238-1	490.10	493.14	490.53	491.26	0.33	ppb
Vanadium	51-2	506.84	500.31	503.36	503.51	0.65	ppb
Yttrium	89-2						%
Yttrium	89-1						%
Zinc	66-2	1029.48	1018.82	1020.80	1023.03	0.55	ppb
Zirconium	90-1	505.87	495.38	497.61	499.62	1.11	ppb

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LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	PB98296BS	Instrumnet Name :	P7
Client Sample ID :	PB98296BS	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 15:11:12	DataFile Name :	041CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Zirconium	91-1	494.36	483.36	491.55	489.76	1.17	ppb

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2585-01	Instrumnet Name :	P7
Client Sample ID :	22A	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 15:17:07	DataFile Name :	042SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	4894.13	4873.91	4843.33	4870.46	0.53	ppb
Antimony	121-1	6.02	6.26	6.89	6.39	7.06	ppb
Arsenic	75-2	1.51	1.68	1.66	1.61	5.86	ppb
Barium	135-1	483.19	468.22	469.96	473.79	1.73	ppb
Barium	137-1	489.49	473.24	473.52	478.75	1.94	ppb
Beryllium	9-1	0.42	0.43	0.46	0.44	4.89	ppb
Bismuth	209-1						%
Bismuth	209-2						%
Boron	10-1	86.03	86.05	84.56	85.55	1.00	ppb
Boron	11-1	84.74	85.22	81.94	83.97	2.11	ppb
Cadmium	106-1	0.28	-0.38	-0.29	-0.13		ppb
Cadmium	108-1	0.99	1.27	1.20	1.15	12.98	ppb
Cadmium	111-1	1.11	0.99	1.03	1.04	5.88	ppb
Calcium	43-1	286522.41	287340.37	282719.71	285527.50	0.86	ppb
Calcium	44-1	283192.24	285259.79	284638.83	284363.62	0.37	ppb
Chromium	52-2	23.23	23.38	23.79	23.47	1.23	ppb
Cobalt	59-2	18.60	18.51	18.60	18.57	0.29	ppb
Copper	63-2	41.29	41.56	41.30	41.38	0.36	ppb
Dysprosium	156-2						cps
Dysprosium	156-1						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-2						cps
Gadolinium	160-1						cps
Holmium	165-2						%
Holmium	165-1						%
Indium	115-1						%
Indium	115-2						%
Iron	56-2	13674.92	13626.42	13769.14	13690.16	0.53	ppb
Iron	57-2	13489.60	13508.07	13575.47	13524.38	0.33	ppb
Lead	206-1	15.04	15.06	15.21	15.10	0.62	ppb
Lead	207-1	13.71	13.62	13.86	13.73	0.86	ppb
Lead	208-1	14.42	14.43	14.58	14.47	0.61	ppb
Lithium	6-1						%
Magnesium	24-2	41624.50	41844.40	41385.38	41618.09	0.55	ppb
Manganese	55-2	3668.58	3644.97	3670.30	3661.29	0.39	ppb

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2585-01	Instrumnet Name :	P7
Client Sample ID :	22A	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 15:17:07	DataFile Name :	042SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Molybdenum	94-1	1.54	1.60	1.70	1.61	4.96	ppb
Molybdenum	95-1	1.69	1.93	2.04	1.88	9.63	ppb
Molybdenum	96-1	1.70	1.79	1.86	1.78	4.36	ppb
Molybdenum	97-1	1.71	1.86	2.01	1.86	8.16	ppb
Molybdenum	98-1	1.66	1.89	2.01	1.85	9.71	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	36.14	36.75	36.52	36.47	0.84	ppb
Phosphorus	31-2	395.51	397.84	394.10	395.81	0.48	ppb
Potassium	39-2	11875.64	11982.44	11896.31	11918.13	0.48	ppb
Rhodium	103-2						%
Rhodium	103-1						%
Scandium	45-1						%
Scandium	45-2						%
Selenium	77-2	6.34	6.40	7.50	6.74	9.69	ppb
Selenium	78-2	1.89	1.84	3.28	2.33	35.04	ppb
Selenium	82-1	1.78	1.76	2.49	2.01	20.80	ppb
Silicon	28-1	14115.62	14161.84	13979.13	14085.53	0.67	ppb
Silver	109-1	0.77	0.71	0.66	0.72	7.69	ppb
Silver	107-1	0.78	0.67	0.67	0.70	9.09	ppb
Sodium	23-2	659774.61	660004.84	657208.85	658996.10	0.24	ppb
Strontium	86-1	1327.71	1346.34	1331.30	1335.12	0.74	ppb
Strontium	88-1	1331.19	1340.56	1328.51	1333.42	0.47	ppb
Sulfur	34-1	19444.50	19606.95	19128.40	19393.28	1.25	ppb
Terbium	159-1						%
Terbium	159-2						%
Thallium	203-1	0.28	0.25	0.22	0.25	12.67	ppb
Thallium	205-1	0.30	0.25	0.20	0.25	19.97	ppb
Tin	118-1	2.97	2.94	3.00	2.97	0.93	ppb
Titanium	47-1	491.98	488.33	484.96	488.42	0.72	ppb
Uranium	238-1	1.39	1.39	1.37	1.38	0.76	ppb
Vanadium	51-2	18.94	18.87	19.07	18.96	0.55	ppb
Yttrium	89-2						%
Yttrium	89-1						%
Zinc	66-2	104.24	106.10	105.85	105.40	0.96	ppb
Zirconium	90-1	1.43	1.49	1.54	1.49	3.49	ppb

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Inst Id :P7
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LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2585-01	Instrumnet Name :	P7
Client Sample ID :	22A	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 15:17:07	DataFile Name :	042SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Zirconium	91-1	1.45	1.46	1.62	1.51	6.36	ppb

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2585-02	Instrumnet Name :	P7
Client Sample ID :	14A	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 15:20:40	DataFile Name :	043SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	7427.04	7235.71	7360.82	7341.19	1.32	ppb
Antimony	121-1	1.99	2.18	2.46	2.21	10.59	ppb
Arsenic	75-2	11.75	11.78	11.74	11.75	0.15	ppb
Barium	135-1	822.49	802.13	822.74	815.79	1.45	ppb
Barium	137-1	830.14	817.46	826.40	824.67	0.79	ppb
Beryllium	9-1	0.52	0.53	0.51	0.52	1.72	ppb
Bismuth	209-1						%
Bismuth	209-2						%
Boron	10-1	63.83	63.64	67.07	64.85	2.98	ppb
Boron	11-1	65.25	65.12	66.31	65.56	1.00	ppb
Cadmium	106-1	0.83	-0.17	0.51	0.39	130.16	ppb
Cadmium	108-1	0.90	0.77	0.96	0.88	11.46	ppb
Cadmium	111-1	0.35	0.26	0.34	0.32	15.99	ppb
Calcium	43-1	455027.21	456711.19	459282.08	457006.83	0.47	ppb
Calcium	44-1	453722.84	459497.42	458272.53	457164.26	0.67	ppb
Chromium	52-2	30.56	30.78	30.06	30.47	1.21	ppb
Cobalt	59-2	9.48	9.56	9.44	9.49	0.66	ppb
Copper	63-2	40.49	40.17	40.52	40.39	0.47	ppb
Dysprosium	156-2						cps
Dysprosium	156-1						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-2						cps
Gadolinium	160-1						cps
Holmium	165-1						%
Holmium	165-2						%
Indium	115-2						%
Indium	115-1						%
Iron	56-2	33070.47	32892.43	32781.91	32914.93	0.44	ppb
Iron	57-2	32347.26	32161.60	32074.66	32194.51	0.43	ppb
Lead	206-1	23.56	24.06	23.51	23.71	1.30	ppb
Lead	207-1	21.80	21.71	21.54	21.68	0.61	ppb
Lead	208-1	22.64	22.78	22.61	22.68	0.40	ppb
Lithium	6-1						%
Magnesium	24-2	50574.04	49940.79	49980.67	50165.17	0.71	ppb
Manganese	55-2	965.58	965.64	959.69	963.64	0.35	ppb

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On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2585-02	Instrumnet Name :	P7
Client Sample ID :	14A	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 15:20:40	DataFile Name :	043SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Molybdenum	94-1	3.80	3.75	3.86	3.80	1.43	ppb
Molybdenum	95-1	2.51	2.61	2.73	2.62	4.29	ppb
Molybdenum	96-1	2.88	3.00	3.02	2.97	2.40	ppb
Molybdenum	97-1	2.53	2.66	2.73	2.64	3.69	ppb
Molybdenum	98-1	2.53	2.63	2.67	2.61	2.74	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	19.98	20.03	19.76	19.92	0.73	ppb
Phosphorus	31-2	402.66	366.87	438.70	402.74	8.92	ppb
Potassium	39-2	20774.23	20409.03	20503.29	20562.18	0.92	ppb
Rhodium	103-1						%
Rhodium	103-2						%
Scandium	45-1						%
Scandium	45-2						%
Selenium	82-1	9.70	10.29	11.29	10.43	7.75	ppb
Selenium	77-2	15.23	14.83	11.68	13.91	13.98	ppb
Selenium	78-2	4.26	3.96	4.14	4.12	3.62	ppb
Silicon	28-1	15751.19	15786.13	16054.44	15863.92	1.05	ppb
Silver	109-1	0.52	0.45	0.45	0.47	9.05	ppb
Silver	107-1	0.47	0.47	0.45	0.46	2.10	ppb
Sodium	23-2	418581.07	415463.91	416252.28	416765.75	0.39	ppb
Strontium	86-1	2830.36	2880.53	2867.59	2859.49	0.91	ppb
Strontium	88-1	2855.47	2873.28	2899.06	2875.94	0.76	ppb
Sulfur	34-1	16453.24	16099.83	16355.77	16302.95	1.12	ppb
Terbium	159-1						%
Terbium	159-2						%
Thallium	203-1	0.13	0.13	0.14	0.13	5.15	ppb
Thallium	205-1	0.14	0.13	0.15	0.14	4.74	ppb
Tin	118-1	3.14	3.13	3.16	3.14	0.50	ppb
Titanium	47-1	327.50	326.89	330.37	328.25	0.57	ppb
Uranium	238-1	2.38	2.42	2.45	2.42	1.34	ppb
Vanadium	51-2	34.03	33.74	34.05	33.94	0.52	ppb
Yttrium	89-1						%
Yttrium	89-2						%
Zinc	66-2	68.39	68.56	67.10	68.02	1.18	ppb
Zirconium	90-1	4.48	4.43	5.08	4.66	7.75	ppb

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2585-02	Instrumnet Name :	P7
Client Sample ID :	14A	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 15:20:40	DataFile Name :	043SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Zirconium	91-1	4.53	4.93	4.44	4.63	5.62	ppb

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On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2585-03	Instrumnet Name :	P7
Client Sample ID :	1A	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 15:24:16	DataFile Name :	044SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	5575.15	5605.17	5538.03	5572.78	0.60	ppb
Antimony	121-1	2.54	2.62	2.65	2.61	2.23	ppb
Arsenic	75-2	8.59	8.42	8.46	8.49	1.06	ppb
Barium	135-1	91.79	92.01	91.15	91.65	0.49	ppb
Barium	137-1	92.69	91.83	96.83	93.78	2.85	ppb
Beryllium	9-1	0.46	0.49	0.45	0.47	3.67	ppb
Bismuth	209-1						%
Bismuth	209-2						%
Boron	10-1	35.12	35.69	34.14	34.98	2.24	ppb
Boron	11-1	33.16	34.79	34.15	34.03	2.41	ppb
Cadmium	111-1	0.32	0.30	0.32	0.31	3.50	ppb
Cadmium	106-1	0.24	0.54	-0.84	-0.02		ppb
Cadmium	108-1	1.04	1.18	1.14	1.12	6.31	ppb
Calcium	43-1	79159.57	79299.62	79331.28	79263.49	0.12	ppb
Calcium	44-1	80595.43	80488.24	80461.16	80514.94	0.09	ppb
Chromium	52-2	41.71	41.91	41.90	41.84	0.26	ppb
Cobalt	59-2	5.98	5.84	6.03	5.95	1.65	ppb
Copper	63-2	63.39	63.02	63.50	63.30	0.39	ppb
Dysprosium	156-2						cps
Dysprosium	156-1						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-2						cps
Gadolinium	160-1						cps
Holmium	165-2						%
Holmium	165-1						%
Indium	115-1						%
Indium	115-2						%
Iron	56-2	47569.62	46843.64	47003.27	47138.84	0.81	ppb
Iron	57-2	47084.72	47028.01	47248.90	47120.54	0.24	ppb
Lead	206-1	70.66	71.26	71.32	71.08	0.52	ppb
Lead	207-1	64.55	65.20	65.08	64.94	0.53	ppb
Lead	208-1	68.00	68.05	68.24	68.10	0.18	ppb
Lithium	6-1						%
Magnesium	24-2	9091.68	9019.97	9167.74	9093.13	0.81	ppb
Manganese	55-2	618.09	619.90	621.38	619.79	0.27	ppb

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2585-03	Instrumnet Name :	P7
Client Sample ID :	1A	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 15:24:16	DataFile Name :	044SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Molybdenum	94-1	10.01	9.99	10.12	10.04	0.67	ppb
Molybdenum	95-1	22.04	22.12	22.02	22.06	0.25	ppb
Molybdenum	96-1	18.72	19.17	18.99	18.96	1.22	ppb
Molybdenum	97-1	21.99	22.14	22.36	22.16	0.85	ppb
Molybdenum	98-1	21.94	22.52	21.77	22.07	1.79	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	18.85	18.92	18.79	18.86	0.34	ppb
Phosphorus	31-2	735.74	762.08	745.02	747.61	1.79	ppb
Potassium	39-2	7620.24	7607.37	7672.12	7633.24	0.45	ppb
Rhodium	103-1						%
Rhodium	103-2						%
Scandium	45-2						%
Scandium	45-1						%
Selenium	82-1	1.90	2.79	1.63	2.11	28.98	ppb
Selenium	77-2	6.83	9.08	8.79	8.24	14.86	ppb
Selenium	78-2	2.06	1.06	1.95	1.69	32.45	ppb
Silicon	28-1	11262.31	11297.73	11162.31	11240.78	0.62	ppb
Silver	109-1	0.44	0.41	0.38	0.41	8.21	ppb
Silver	107-1	0.40	0.43	0.39	0.41	5.10	ppb
Sodium	23-2	167221.35	164485.89	166516.90	166074.71	0.86	ppb
Strontium	88-1	876.46	877.95	880.28	878.23	0.22	ppb
Strontium	86-1	860.41	860.98	859.58	860.33	0.08	ppb
Sulfur	34-1	8846.15	8487.28	8273.18	8535.54	3.39	ppb
Terbium	159-1						%
Terbium	159-2						%
Thallium	203-1	0.11	0.10	0.09	0.10	12.51	ppb
Thallium	205-1	0.10	0.10	0.10	0.10	1.16	ppb
Tin	118-1	4.36	4.36	4.24	4.32	1.63	ppb
Titanium	47-1	235.10	228.13	231.80	231.67	1.50	ppb
Uranium	238-1	1.86	1.90	1.91	1.89	1.47	ppb
Vanadium	51-2	68.15	67.64	67.62	67.81	0.45	ppb
Yttrium	89-1						%
Yttrium	89-2						%
Zinc	66-2	133.13	130.53	133.12	132.26	1.14	ppb
Zirconium	90-1	4.80	4.81	4.76	4.79	0.52	ppb

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2585-03	Instrumnet Name :	P7
Client Sample ID :	1A	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 15:24:16	DataFile Name :	044SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Zirconium	91-1	4.76	4.91	4.77	4.81	1.70	ppb

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2700-01	Instrumnet Name :	P7
Client Sample ID :	S8-0651	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 15:27:50	DataFile Name :	045SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	2.50	4.80	5.93	4.41	39.67	ppb
Antimony	121-1	0.50	0.57	0.59	0.55	8.26	ppb
Arsenic	75-2	48.01	47.63	46.93	47.52	1.15	ppb
Barium	135-1	34.53	35.42	35.61	35.19	1.64	ppb
Barium	137-1	35.49	35.19	35.28	35.32	0.44	ppb
Beryllium	9-1	0.01	0.00	0.03	0.01	98.21	ppb
Bismuth	209-1						%
Bismuth	209-2						%
Boron	10-1	20.63	19.94	19.36	19.98	3.17	ppb
Boron	11-1	20.02	20.33	20.00	20.12	0.91	ppb
Cadmium	111-1	-0.07	-0.04	-0.03	-0.04		ppb
Cadmium	106-1	-2.96	-1.82	-1.69	-2.16		ppb
Cadmium	108-1	-0.01	-0.02	-0.03	-0.02		ppb
Calcium	43-1	47431.86	46993.55	47229.87	47218.43	0.46	ppb
Calcium	44-1	47872.44	47515.40	48388.22	47925.35	0.92	ppb
Chromium	52-2	0.49	0.46	0.45	0.46	4.80	ppb
Cobalt	59-2	3.95	4.06	3.97	3.99	1.50	ppb
Copper	63-2	3.73	3.71	3.70	3.71	0.34	ppb
Dysprosium	156-2						cps
Dysprosium	156-1						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-2						cps
Gadolinium	160-1						cps
Holmium	165-1						%
Holmium	165-2						%
Indium	115-2						%
Indium	115-1						%
Iron	56-2	9322.97	9298.94	9276.32	9299.41	0.25	ppb
Iron	57-2	9121.64	9145.49	9074.26	9113.80	0.40	ppb
Lead	206-1	0.14	0.13	0.13	0.13	3.83	ppb
Lead	207-1	0.12	0.11	0.13	0.12	9.13	ppb
Lead	208-1	0.13	0.11	0.13	0.13	7.73	ppb
Lithium	6-1						%
Magnesium	24-2	10712.63	10756.82	10675.73	10715.06	0.38	ppb
Manganese	55-2	5589.36	5601.76	5533.32	5574.81	0.65	ppb

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On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2700-01	Instrumnet Name :	P7
Client Sample ID :	S8-0651	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 15:27:50	DataFile Name :	045SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Molybdenum	94-1	0.24	0.22	0.27	0.24	10.68	ppb
Molybdenum	95-1	0.61	0.74	0.75	0.70	11.03	ppb
Molybdenum	96-1	0.54	0.58	0.62	0.58	7.01	ppb
Molybdenum	97-1	0.61	0.62	0.69	0.64	7.55	ppb
Molybdenum	98-1	0.59	0.64	0.67	0.63	6.95	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	3.48	3.33	3.28	3.36	3.00	ppb
Phosphorus	31-2	-6.34	8.97	11.87	4.83	202.55	ppb
Potassium	39-2	2152.99	2144.29	2125.22	2140.83	0.66	ppb
Rhodium	103-1						%
Rhodium	103-2						%
Scandium	45-2						%
Scandium	45-1						%
Selenium	82-1	0.51	0.42	0.24	0.39	35.20	ppb
Selenium	77-2	0.86	2.55	1.14	1.52	59.78	ppb
Selenium	78-2	0.78	-0.87	1.26	0.39	285.57	ppb
Silicon	28-1	9881.24	9724.35	9754.82	9786.80	0.85	ppb
Silver	109-1	0.21	0.24	0.24	0.23	6.32	ppb
Silver	107-1	0.22	0.22	0.23	0.22	1.40	ppb
Sodium	23-2	25523.41	25409.39	25276.40	25403.07	0.49	ppb
Strontium	86-1	311.12	312.51	312.00	311.88	0.23	ppb
Strontium	88-1	318.35	322.94	319.16	320.15	0.77	ppb
Sulfur	34-1	14026.29	13646.92	13637.00	13770.07	1.61	ppb
Terbium	159-1						%
Terbium	159-2						%
Thallium	203-1	0.01	0.00	0.01	0.01	57.42	ppb
Thallium	205-1	0.01	0.01	0.01	0.01	12.37	ppb
Tin	118-1	0.19	0.20	0.22	0.20	9.05	ppb
Titanium	47-1	0.76	0.67	0.78	0.74	7.43	ppb
Uranium	238-1	0.23	0.23	0.23	0.23	0.58	ppb
Vanadium	51-2	0.17	0.16	0.16	0.16	3.29	ppb
Yttrium	89-2						%
Yttrium	89-1						%
Zinc	66-2	4.46	4.34	4.49	4.43	1.77	ppb
Zirconium	91-1	0.05	0.05	0.07	0.06	15.47	ppb

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On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2700-01	Instrumnet Name :	P7
Client Sample ID :	S8-0651	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 15:27:50	DataFile Name :	045SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Zirconium	90-1	0.04	0.04	0.05	0.04	18.78	ppb

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	CCV66	Instrumnet Name :	P7
Client Sample ID :	CCV66	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 15:31:19	DataFile Name :	046CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	9404.89	9407.63	9316.07	9376.20	0.56	ppb
Antimony	121-1	501.14	489.67	495.31	495.37	1.16	ppb
Arsenic	75-2	510.58	501.21	507.56	506.45	0.94	ppb
Barium	135-1	2520.09	2513.21	2561.19	2531.50	1.02	ppb
Barium	137-1	2520.34	2514.01	2537.24	2523.86	0.48	ppb
Beryllium	9-1	498.96	496.23	500.38	498.52	0.42	ppb
Bismuth	209-1						%
Bismuth	209-2						%
Boron	10-1	480.39	486.85	491.83	486.35	1.18	ppb
Boron	11-1	485.06	486.16	493.46	488.23	0.93	ppb
Cadmium	106-1	497.05	488.85	502.27	496.06	1.36	ppb
Cadmium	108-1	499.15	495.18	503.46	499.26	0.83	ppb
Cadmium	111-1	500.87	498.07	504.16	501.03	0.61	ppb
Calcium	43-1	47591.62	47945.06	47761.28	47765.99	0.37	ppb
Calcium	44-1	48683.21	48699.09	48659.73	48680.67	0.04	ppb
Chromium	52-2	508.59	505.56	505.01	506.39	0.38	ppb
Cobalt	59-2	507.86	505.05	507.97	506.96	0.33	ppb
Copper	63-2	1059.60	1046.38	1047.17	1051.05	0.71	ppb
Dysprosium	156-2						cps
Dysprosium	156-1						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-2						cps
Gadolinium	160-1						cps
Holmium	165-2						%
Holmium	165-1						%
Indium	115-1						%
Indium	115-2						%
Iron	56-2	25840.37	25520.87	25429.52	25596.92	0.84	ppb
Iron	57-2	25369.46	25052.03	25008.73	25143.41	0.78	ppb
Lead	206-1	490.40	490.91	495.33	492.21	0.55	ppb
Lead	207-1	484.50	484.79	490.36	486.55	0.68	ppb
Lead	208-1	492.33	493.25	498.36	494.64	0.66	ppb
Lithium	6-1						%
Magnesium	24-2	49790.82	49778.45	49391.84	49653.70	0.46	ppb
Manganese	55-2	1023.60	1011.71	1010.24	1015.19	0.72	ppb

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	CCV66	Instrumnet Name :	P7
Client Sample ID :	CCV66	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 15:31:19	DataFile Name :	046CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Molybdenum	94-1	502.24	502.13	496.19	500.18	0.69	ppb
Molybdenum	95-1	492.91	489.14	489.29	490.45	0.43	ppb
Molybdenum	96-1	489.42	488.72	486.14	488.09	0.35	ppb
Molybdenum	97-1	495.18	493.32	493.48	493.99	0.21	ppb
Molybdenum	98-1	498.12	500.95	501.86	500.31	0.39	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	521.64	513.85	516.21	517.23	0.77	ppb
Phosphorus	31-2	9887.91	9828.53	9958.39	9891.61	0.66	ppb
Potassium	39-2	24321.49	24155.34	24147.22	24208.02	0.41	ppb
Rhodium	103-2						%
Rhodium	103-1						%
Scandium	45-1						%
Scandium	45-2						%
Selenium	77-2	496.78	512.80	501.86	503.81	1.62	ppb
Selenium	78-2	501.66	492.30	502.76	498.91	1.15	ppb
Selenium	82-1	496.74	494.87	502.18	497.93	0.76	ppb
Silicon	28-1	478.69	490.32	486.67	485.23	1.23	ppb
Silver	109-1	516.52	509.94	518.80	515.09	0.89	ppb
Silver	107-1	505.36	505.57	513.86	508.27	0.95	ppb
Sodium	23-2	49844.03	49946.01	49281.79	49690.61	0.72	ppb
Strontium	86-1	488.88	489.75	487.67	488.77	0.21	ppb
Strontium	88-1	501.78	501.01	501.58	501.46	0.08	ppb
Sulfur	34-1	8922.54	9097.52	8965.36	8995.14	1.01	ppb
Terbium	159-1						%
Terbium	159-2						%
Thallium	203-1	497.20	498.47	506.40	500.69	1.00	ppb
Thallium	205-1	502.58	501.56	509.75	504.63	0.88	ppb
Tin	118-1	503.47	496.82	508.12	502.80	1.13	ppb
Titanium	47-1	493.68	493.25	491.76	492.90	0.20	ppb
Uranium	238-1	483.34	481.61	491.50	485.48	1.09	ppb
Vanadium	51-2	510.89	504.45	504.63	506.66	0.72	ppb
Yttrium	89-2						%
Yttrium	89-1						%
Zinc	66-2	1040.79	1028.05	1026.69	1031.85	0.75	ppb
Zirconium	90-1	502.83	499.12	499.17	500.37	0.43	ppb

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	CCV66	Instrumnet Name :	P7
Client Sample ID :	CCV66	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 15:31:19	DataFile Name :	046CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Zirconium	91-1	490.94	490.79	487.51	489.75	0.40	ppb

Reviewed By:jaswal
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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	CCB66	Instrumnet Name :	P7
Client Sample ID :	CCB66	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 15:39:43	DataFile Name :	047CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	0.04	0.04	0.25	0.11	107.68	ppb
Antimony	121-1	0.66	0.90	1.15	0.90	27.02	ppb
Arsenic	75-2	0.10	0.10	0.13	0.11	12.95	ppb
Barium	135-1	0.01	0.02	0.01	0.01	25.48	ppb
Barium	137-1	-0.01	0.02	0.01	0.01	241.14	ppb
Beryllium	9-1	0.01	0.00	0.02	0.01	74.96	ppb
Bismuth	209-1						%
Bismuth	209-2						%
Boron	10-1	3.90	4.15	4.31	4.12	4.96	ppb
Boron	11-1	4.01	3.86	3.96	3.94	1.92	ppb
Cadmium	106-1	-1.52	-2.23	-1.18	-1.64		ppb
Cadmium	108-1	0.05	-0.06	0.07	0.02	310.06	ppb
Cadmium	111-1	-0.03	-0.05	-0.03	-0.04		ppb
Calcium	43-1	-0.26	10.01	-3.64	2.04	349.31	ppb
Calcium	44-1	-7.48	-3.05	-7.78	-6.10		ppb
Chromium	52-2	0.00	0.01	-0.02	0.00		ppb
Cobalt	59-2	-0.01	0.00	-0.01	-0.01		ppb
Copper	63-2	0.59	0.55	0.59	0.58	4.79	ppb
Dysprosium	156-2						cps
Dysprosium	156-1						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-2						cps
Gadolinium	160-1						cps
Holmium	165-1						%
Holmium	165-2						%
Indium	115-2						%
Indium	115-1						%
Iron	56-2	0.45	0.47	0.43	0.45	4.73	ppb
Iron	57-2	0.56	0.80	0.02	0.46	85.87	ppb
Lead	206-1	0.01	0.01	0.00	0.01	56.17	ppb
Lead	207-1	-0.01	0.00	-0.01	-0.01		ppb
Lead	208-1	0.01	0.01	0.00	0.00	81.76	ppb
Lithium	6-1						%
Magnesium	24-2	0.19	0.29	0.38	0.28	32.73	ppb
Manganese	55-2	0.04	0.05	0.03	0.04	26.11	ppb

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	CCB66	Instrumnet Name :	P7
Client Sample ID :	CCB66	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 15:39:43	DataFile Name :	047CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Molybdenum	94-1	0.04	0.05	0.09	0.06	45.32	ppb
Molybdenum	95-1	0.13	0.19	0.26	0.19	32.81	ppb
Molybdenum	96-1	0.09	0.17	0.22	0.16	40.35	ppb
Molybdenum	97-1	0.10	0.21	0.31	0.21	52.34	ppb
Molybdenum	98-1	0.11	0.19	0.28	0.20	43.47	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.03	-0.04	-0.03	-0.03		ppb
Phosphorus	31-2	-3.47	-1.00	-6.04	-3.50		ppb
Potassium	39-2	2.59	4.64	5.26	4.16	33.58	ppb
Rhodium	103-1						%
Rhodium	103-2						%
Scandium	45-2						%
Scandium	45-1						%
Selenium	82-1	-0.34	-0.09	0.72	0.09	585.98	ppb
Selenium	77-2	0.00	0.00	0.00	0.00	N/A	ppb
Selenium	78-2	-0.16	-0.02	0.40	0.08	387.41	ppb
Silicon	28-1	-3.65	-3.72	-4.26	-3.88		ppb
Silver	109-1	0.05	0.05	0.05	0.05	9.12	ppb
Silver	107-1	0.04	0.05	0.05	0.05	5.09	ppb
Sodium	23-2	30.46	28.19	28.29	28.98	4.44	ppb
Strontium	86-1	-0.07	-0.02	-0.12	-0.07		ppb
Strontium	88-1	0.01	0.04	0.01	0.02	110.89	ppb
Sulfur	34-1	-1257.78	-1384.51	-1313.54	-1318.61		ppb
Terbium	159-1						%
Terbium	159-2						%
Thallium	203-1	0.01	0.01	0.00	0.00	59.15	ppb
Thallium	205-1	0.01	0.01	0.01	0.01	29.38	ppb
Tin	118-1	0.03	0.07	0.07	0.06	42.31	ppb
Titanium	47-1	-0.02	-0.04	-0.01	-0.02		ppb
Uranium	238-1	0.00	0.00	0.00	0.00		ppb
Vanadium	51-2	0.00	0.00	0.01	0.00	81.33	ppb
Yttrium	89-2						%
Yttrium	89-1						%
Zinc	66-2	0.08	0.05	0.06	0.06	24.18	ppb
Zirconium	90-1	0.01	0.02	0.02	0.02	31.79	ppb

Reviewed By:jaswal
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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	CCB66	Instrumnet Name :	P7
Client Sample ID :	CCB66	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 15:39:43	DataFile Name :	047CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Zirconium	91-1	0.01	0.03	0.01	0.01	82.57	ppb

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2700-02	Instrumnet Name :	P7
Client Sample ID :	S8-0652	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 15:43:12	DataFile Name :	048SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	4.50	3.07	3.86	3.81	18.80	ppb
Antimony	121-1	1.96	2.12	2.29	2.12	7.79	ppb
Arsenic	75-2	46.63	46.19	46.83	46.55	0.70	ppb
Barium	135-1	34.99	34.60	34.36	34.65	0.91	ppb
Barium	137-1	35.24	35.16	34.84	35.08	0.60	ppb
Beryllium	9-1	0.01	0.01	0.00	0.01	141.31	ppb
Bismuth	209-1						%
Bismuth	209-2						%
Boron	10-1	18.11	18.70	19.52	18.78	3.77	ppb
Boron	11-1	18.39	18.55	18.34	18.43	0.59	ppb
Cadmium	106-1	-2.46	-1.70	-2.10	-2.09		ppb
Cadmium	108-1	0.01	0.08	-0.01	0.03	181.05	ppb
Cadmium	111-1	0.00	0.01	-0.02	0.00		ppb
Calcium	43-1	45883.88	45508.00	46036.68	45809.52	0.59	ppb
Calcium	44-1	47031.34	46420.67	47297.17	46916.39	0.96	ppb
Chromium	52-2	0.48	0.54	0.49	0.51	6.43	ppb
Cobalt	59-2	3.87	3.97	3.90	3.91	1.28	ppb
Copper	63-2	4.73	4.70	4.76	4.73	0.61	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-2						cps
Gadolinium	160-1						cps
Holmium	165-1						%
Holmium	165-2						%
Indium	115-2						%
Indium	115-1						%
Iron	56-2	9170.47	9125.74	9135.83	9144.01	0.26	ppb
Iron	57-2	8958.40	8975.07	8946.38	8959.95	0.16	ppb
Lead	206-1	0.14	0.12	0.14	0.13	10.22	ppb
Lead	207-1	0.12	0.11	0.11	0.12	5.45	ppb
Lead	208-1	0.12	0.13	0.12	0.13	1.84	ppb
Lithium	6-1						%
Magnesium	24-2	10570.71	10618.52	10486.09	10558.44	0.64	ppb
Manganese	55-2	5441.30	5483.62	5486.18	5470.37	0.46	ppb

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On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2700-02	Instrumnet Name :	P7
Client Sample ID :	S8-0652	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 15:43:12	DataFile Name :	048SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Molybdenum	94-1	0.30	0.31	0.34	0.32	5.52	ppb
Molybdenum	95-1	0.66	0.73	0.70	0.70	4.85	ppb
Molybdenum	96-1	0.54	0.59	0.60	0.57	5.55	ppb
Molybdenum	97-1	0.67	0.70	0.73	0.70	4.86	ppb
Molybdenum	98-1	0.65	0.67	0.71	0.68	4.67	ppb
Neodymium	150-2						cps
Neodymium	150-1						cps
Nickel	60-2	3.24	3.40	3.37	3.33	2.58	ppb
Phosphorus	31-2	12.09	5.60	5.25	7.64	50.41	ppb
Potassium	39-2	2104.49	2092.22	2085.39	2094.03	0.46	ppb
Rhodium	103-2						%
Rhodium	103-1						%
Scandium	45-1						%
Scandium	45-2						%
Selenium	77-2	1.46	2.62	2.32	2.13	28.30	ppb
Selenium	78-2	0.30	-0.19	-0.05	0.02	1206.40	ppb
Selenium	82-1	0.89	0.62	1.04	0.85	24.80	ppb
Silicon	28-1	9501.06	9365.13	9481.98	9449.39	0.78	ppb
Silver	107-1	0.47	0.43	0.41	0.44	7.50	ppb
Silver	109-1	0.46	0.42	0.40	0.43	6.07	ppb
Sodium	23-2	25039.50	25209.75	24739.90	24996.38	0.95	ppb
Strontium	86-1	306.11	301.18	303.61	303.63	0.81	ppb
Strontium	88-1	316.32	311.35	310.17	312.61	1.04	ppb
Sulfur	34-1	13235.95	12829.22	13206.51	13090.56	1.73	ppb
Terbium	159-1						%
Terbium	159-2						%
Thallium	203-1	0.04	0.03	0.03	0.03	14.55	ppb
Thallium	205-1	0.03	0.03	0.03	0.03	15.02	ppb
Tin	118-1	0.35	0.34	0.35	0.35	1.29	ppb
Titanium	47-1	0.83	0.69	0.65	0.72	13.02	ppb
Uranium	238-1	0.23	0.22	0.23	0.23	3.43	ppb
Vanadium	51-2	0.20	0.24	0.22	0.22	10.14	ppb
Yttrium	89-1						%
Yttrium	89-2						%
Zinc	66-2	5.15	5.22	5.08	5.15	1.37	ppb
Zirconium	90-1	0.13	0.15	0.18	0.15	14.94	ppb

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2700-02	Instrumnet Name :	P7
Client Sample ID :	S8-0652	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 15:43:12	DataFile Name :	048SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Zirconium	91-1	0.14	0.19	0.21	0.18	17.87	ppb

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2700-02DLX20	Instrumnet Name :	P7
Client Sample ID :	S8-0652DL	Dilution Factor :	20
Date & Time Acquired ::	2017-04-18 15:46:40	DataFile Name :	049SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	0.37	0.20	0.36	0.31	30.93	ppb
Antimony	121-1	0.11	0.13	0.14	0.13	13.73	ppb
Arsenic	75-2	2.50	2.19	2.33	2.34	6.71	ppb
Barium	135-1	1.76	1.65	1.62	1.68	4.43	ppb
Barium	137-1	1.76	1.80	1.77	1.78	1.02	ppb
Beryllium	9-1	0.02	0.02	0.01	0.01	42.14	ppb
Bismuth	209-1						%
Bismuth	209-2						%
Boron	10-1	4.24	3.46	3.68	3.80	10.49	ppb
Boron	11-1	3.77	3.70	3.90	3.79	2.75	ppb
Cadmium	106-1	-1.73	-1.21	-0.82	-1.25		ppb
Cadmium	108-1	-0.03	0.01	0.01	0.00		ppb
Cadmium	111-1	-0.04	-0.03	-0.02	-0.03		ppb
Calcium	43-1	2241.37	2221.63	2254.26	2239.09	0.73	ppb
Calcium	44-1	2256.41	2234.85	2260.60	2250.62	0.61	ppb
Chromium	52-2	0.04	0.03	0.03	0.03	21.09	ppb
Cobalt	59-2	0.18	0.19	0.17	0.18	4.56	ppb
Copper	63-2	1.04	1.04	1.00	1.03	2.17	ppb
Dysprosium	156-2						cps
Dysprosium	156-1						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-2						cps
Gadolinium	160-1						cps
Holmium	165-2						%
Holmium	165-1						%
Indium	115-1						%
Indium	115-2						%
Iron	56-2	436.38	429.90	433.72	433.33	0.75	ppb
Iron	57-2	445.07	432.20	437.49	438.25	1.48	ppb
Lead	206-1	-0.04	-0.02	-0.03	-0.03		ppb
Lead	207-1	-0.05	-0.04	-0.04	-0.04		ppb
Lead	208-1	-0.04	-0.04	-0.04	-0.04		ppb
Lithium	6-1						%
Magnesium	24-2	529.49	527.07	520.18	525.58	0.92	ppb
Manganese	55-2	264.75	259.55	261.09	261.80	1.02	ppb

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2700-02DLX20	Instrumnet Name :	P7
Client Sample ID :	S8-0652DL	Dilution Factor :	20
Date & Time Acquired ::	2017-04-18 15:46:40	DataFile Name :	049SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Molybdenum	94-1	0.01	0.03	0.05	0.03	54.42	ppb
Molybdenum	95-1	0.07	0.09	0.14	0.10	35.56	ppb
Molybdenum	96-1	0.04	0.08	0.09	0.07	33.84	ppb
Molybdenum	97-1	0.04	0.10	0.09	0.08	45.67	ppb
Molybdenum	98-1	0.06	0.09	0.12	0.09	34.58	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.14	0.14	0.20	0.16	21.92	ppb
Phosphorus	31-2	-7.46	-4.99	-4.51	-5.66		ppb
Potassium	39-2	106.20	105.82	106.50	106.17	0.32	ppb
Rhodium	103-2						%
Rhodium	103-1						%
Scandium	45-1						%
Scandium	45-2						%
Selenium	77-2	0.54	0.27	0.27	0.36	43.94	ppb
Selenium	78-2	0.02	0.12	0.18	0.11	76.55	ppb
Selenium	82-1	-1.22	-0.52	0.03	-0.57		ppb
Silicon	28-1	464.57	464.68	466.04	465.09	0.18	ppb
Silver	109-1	0.08	0.09	0.10	0.09	8.16	ppb
Silver	107-1	0.09	0.09	0.09	0.09	0.52	ppb
Sodium	23-2	1253.25	1235.83	1234.26	1241.11	0.85	ppb
Strontium	86-1	15.25	14.94	14.84	15.01	1.44	ppb
Strontium	88-1	15.09	15.22	14.97	15.09	0.83	ppb
Sulfur	34-1	-635.88	-662.19	-496.58	-598.22		ppb
Terbium	159-1						%
Terbium	159-2						%
Thallium	203-1	-0.01	0.00	0.00	-0.01		ppb
Thallium	205-1	0.00	0.00	0.00	0.00		ppb
Tin	118-1	0.02	0.05	0.04	0.04	33.54	ppb
Titanium	47-1	0.04	0.02	0.03	0.03	42.05	ppb
Uranium	238-1	0.00	0.01	0.01	0.01	51.94	ppb
Vanadium	51-2	0.03	0.01	0.01	0.02	46.58	ppb
Yttrium	89-2						%
Yttrium	89-1						%
Zinc	66-2	0.34	0.43	0.39	0.39	11.60	ppb
Zirconium	90-1	0.00	0.00	0.01	0.00	103.55	ppb

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On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2700-02DLX20	Instrumnet Name :	P7
Client Sample ID :	S8-0652DL	Dilution Factor :	20
Date & Time Acquired ::	2017-04-18 15:46:40	DataFile Name :	049SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Zirconium	91-1	0.00	-0.01	0.01	0.00	285.71	ppb

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2700-05	Instrumnet Name :	P7
Client Sample ID :	S8-0658	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 15:50:10	DataFile Name :	050SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	21.07	20.55	22.16	21.26	3.86	ppb
Antimony	121-1	0.83	0.83	0.86	0.84	2.17	ppb
Arsenic	75-2	1.96	2.06	2.03	2.02	2.64	ppb
Barium	135-1	7.38	6.84	6.78	7.00	4.68	ppb
Barium	137-1	7.19	7.01	6.88	7.03	2.17	ppb
Beryllium	9-1	0.02	0.01	0.02	0.02	16.13	ppb
Bismuth	209-1						%
Bismuth	209-2						%
Boron	10-1	10.34	10.32	11.41	10.69	5.81	ppb
Boron	11-1	11.42	11.41	11.46	11.43	0.22	ppb
Cadmium	106-1	-1.28	-1.73	-1.76	-1.59		ppb
Cadmium	108-1	0.08	0.02	0.00	0.03	123.25	ppb
Cadmium	111-1	0.00	0.00	-0.02	-0.01		ppb
Calcium	43-1	25706.92	25450.98	25167.29	25441.73	1.06	ppb
Calcium	44-1	25955.68	25988.08	25740.10	25894.62	0.52	ppb
Chromium	52-2	0.79	0.73	0.79	0.77	4.77	ppb
Cobalt	59-2	2.45	2.42	2.40	2.42	0.96	ppb
Copper	63-2	6.72	6.55	6.60	6.62	1.34	ppb
Dysprosium	156-2						cps
Dysprosium	156-1						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-2						cps
Gadolinium	160-1						cps
Holmium	165-2						%
Holmium	165-1						%
Indium	115-1						%
Indium	115-2						%
Iron	56-2	6605.51	6514.05	6562.26	6560.61	0.70	ppb
Iron	57-2	6470.38	6367.83	6407.80	6415.33	0.81	ppb
Lead	206-1	0.34	0.34	0.36	0.35	3.75	ppb
Lead	207-1	0.31	0.33	0.33	0.32	4.71	ppb
Lead	208-1	0.33	0.34	0.34	0.34	1.96	ppb
Lithium	6-1						%
Magnesium	24-2	8073.53	7976.11	8001.27	8016.97	0.63	ppb
Manganese	55-2	45.26	44.73	44.80	44.93	0.65	ppb

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2700-05	Instrumnet Name :	P7
Client Sample ID :	S8-0658	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 15:50:10	DataFile Name :	050SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Molybdenum	94-1	0.14	0.14	0.18	0.15	17.12	ppb
Molybdenum	95-1	0.30	0.29	0.35	0.31	9.91	ppb
Molybdenum	96-1	0.28	0.31	0.33	0.31	9.20	ppb
Molybdenum	97-1	0.28	0.30	0.35	0.31	11.64	ppb
Molybdenum	98-1	0.28	0.32	0.35	0.32	10.63	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	6.75	6.68	6.55	6.66	1.54	ppb
Phosphorus	31-2	8.87	9.96	3.37	7.40	47.69	ppb
Potassium	39-2	1288.48	1284.21	1275.94	1282.88	0.50	ppb
Rhodium	103-2						%
Rhodium	103-1						%
Scandium	45-1						%
Scandium	45-2						%
Selenium	77-2	0.29	0.29	0.86	0.48	69.45	ppb
Selenium	78-2	0.39	0.11	0.11	0.20	78.64	ppb
Selenium	82-1	0.59	0.58	0.33	0.50	29.07	ppb
Silicon	28-1	4624.65	4606.85	4546.85	4592.78	0.89	ppb
Silver	109-1	0.26	0.26	0.25	0.26	2.08	ppb
Silver	107-1	0.24	0.25	0.25	0.25	3.53	ppb
Sodium	23-2	15060.95	14926.60	14983.92	14990.49	0.45	ppb
Strontium	86-1	128.84	127.63	128.05	128.17	0.48	ppb
Strontium	88-1	133.13	132.04	132.72	132.63	0.41	ppb
Sulfur	34-1	4468.58	4355.05	4078.61	4300.75	4.66	ppb
Terbium	159-1						%
Terbium	159-2						%
Thallium	203-1	0.01	0.01	0.00	0.01	112.50	ppb
Thallium	205-1	0.00	0.00	0.00	0.00	11.65	ppb
Tin	118-1	0.21	0.18	0.25	0.21	16.40	ppb
Titanium	47-1	0.53	0.65	0.69	0.62	13.76	ppb
Uranium	238-1	0.20	0.20	0.19	0.19	1.22	ppb
Vanadium	51-2	0.87	0.85	0.84	0.85	1.95	ppb
Yttrium	89-2						%
Yttrium	89-1						%
Zinc	66-2	5.72	5.58	5.78	5.69	1.83	ppb
Zirconium	90-1	0.09	0.09	0.09	0.09	3.02	ppb

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2700-05	Instrumnet Name :	P7
Client Sample ID :	S8-0658	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 15:50:10	DataFile Name :	050SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Zirconium	91-1	0.14	0.07	0.10	0.10	33.10	ppb

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On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2700-05DLX20	Instrumnet Name :	P7
Client Sample ID :	S8-0658DL	Dilution Factor :	20
Date & Time Acquired ::	2017-04-18 15:53:39	DataFile Name :	051SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1.30	1.37	1.31	1.33	2.71	ppb
Antimony	121-1	0.05	0.05	0.06	0.05	14.84	ppb
Arsenic	75-2	0.14	0.13	0.10	0.12	16.86	ppb
Barium	135-1	0.32	0.31	0.31	0.31	2.69	ppb
Barium	137-1	0.33	0.34	0.36	0.35	4.48	ppb
Beryllium	9-1	0.01	0.02	0.00	0.01	97.20	ppb
Bismuth	209-2						%
Bismuth	209-1						%
Boron	10-1	2.37	2.81	2.24	2.47	12.00	ppb
Boron	11-1	2.55	2.44	2.39	2.46	3.38	ppb
Cadmium	106-1	-1.30	-1.43	-1.10	-1.28		ppb
Cadmium	108-1	0.00	-0.03	-0.02	-0.02		ppb
Cadmium	111-1	-0.03	-0.04	-0.03	-0.03		ppb
Calcium	43-1	1263.46	1242.16	1228.52	1244.71	1.41	ppb
Calcium	44-1	1236.59	1248.54	1224.96	1236.70	0.95	ppb
Chromium	52-2	0.03	0.05	0.04	0.04	16.94	ppb
Cobalt	59-2	0.12	0.11	0.11	0.11	4.45	ppb
Copper	63-2	1.01	1.08	1.10	1.06	4.17	ppb
Dysprosium	156-2						cps
Dysprosium	156-1						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-2						cps
Gadolinium	160-1						cps
Holmium	165-1						%
Holmium	165-2						%
Indium	115-2						%
Indium	115-1						%
Iron	56-2	305.97	308.23	309.23	307.81	0.54	ppb
Iron	57-2	305.35	313.44	310.69	309.83	1.33	ppb
Lead	206-1	-0.02	-0.01	-0.02	-0.02		ppb
Lead	207-1	-0.03	-0.02	-0.03	-0.03		ppb
Lead	208-1	-0.02	-0.02	-0.02	-0.02		ppb
Lithium	6-1						%
Magnesium	24-2	389.97	393.71	399.79	394.49	1.26	ppb
Manganese	55-2	2.28	2.27	2.16	2.24	2.89	ppb

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2700-05DLX20	Instrumnet Name :	P7
Client Sample ID :	S8-0658DL	Dilution Factor :	20
Date & Time Acquired ::	2017-04-18 15:53:39	DataFile Name :	051SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Molybdenum	94-1	0.00	0.01	0.01	0.01	104.39	ppb
Molybdenum	95-1	0.02	0.04	0.05	0.04	51.26	ppb
Molybdenum	96-1	0.02	0.02	0.05	0.03	57.75	ppb
Molybdenum	97-1	0.03	0.03	0.05	0.03	36.22	ppb
Molybdenum	98-1	0.02	0.02	0.05	0.03	50.69	ppb
Neodymium	150-2						cps
Neodymium	150-1						cps
Nickel	60-2	0.33	0.31	0.29	0.31	6.72	ppb
Phosphorus	31-2	2.63	-10.55	4.07	-1.29		ppb
Potassium	39-2	66.23	65.84	66.04	66.04	0.30	ppb
Rhodium	103-2						%
Rhodium	103-1						%
Scandium	45-1						%
Scandium	45-2						%
Selenium	82-1	-0.33	-0.84	-1.01	-0.73		ppb
Selenium	77-2	0.27	0.27	0.00	0.18	86.60	ppb
Selenium	78-2	0.37	-0.40	-0.37	-0.13		ppb
Silicon	28-1	291.19	293.75	286.09	290.35	1.34	ppb
Silver	107-1	0.05	0.06	0.06	0.06	7.37	ppb
Silver	109-1	0.06	0.06	0.06	0.06	2.94	ppb
Sodium	23-2	734.60	741.14	741.56	739.10	0.53	ppb
Strontium	86-1	6.28	6.24	6.10	6.21	1.56	ppb
Strontium	88-1	6.30	6.45	6.39	6.38	1.23	ppb
Sulfur	34-1	-874.95	-558.94	-769.19	-734.36		ppb
Terbium	159-2						%
Terbium	159-1						%
Thallium	203-1	-0.01	-0.01	-0.01	-0.01		ppb
Thallium	205-1	-0.01	-0.01	0.00	-0.01		ppb
Tin	118-1	0.02	0.02	0.04	0.03	43.94	ppb
Titanium	47-1	0.03	0.06	0.04	0.04	39.59	ppb
Uranium	238-1	0.00	0.00	0.01	0.00	44.74	ppb
Vanadium	51-2	0.04	0.04	0.04	0.04	7.37	ppb
Yttrium	89-1						%
Yttrium	89-2						%
Zinc	66-2	0.43	0.38	0.39	0.40	7.24	ppb
Zirconium	90-1	0.00	0.00	0.00	0.00	385.81	ppb

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On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2700-05DLX20	Instrumnet Name :	P7
Client Sample ID :	S8-0658DL	Dilution Factor :	20
Date & Time Acquired ::	2017-04-18 15:53:39	DataFile Name :	051SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Zirconium	91-1	0.00	0.01	0.01	0.01	56.71	ppb

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2700-06	Instrumnet Name :	P7
Client Sample ID :	S8-EB-2017-1	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 15:57:09	DataFile Name :	052SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	2.35	2.48	2.72	2.52	7.48	ppb
Antimony	121-1	0.42	0.40	0.39	0.40	3.40	ppb
Arsenic	75-2	0.18	0.14	0.14	0.15	14.50	ppb
Barium	135-1	0.38	0.39	0.34	0.37	7.19	ppb
Barium	137-1	0.40	0.40	0.35	0.38	7.03	ppb
Beryllium	9-1	-0.01	0.02	0.02	0.01	180.06	ppb
Bismuth	209-2						%
Bismuth	209-1						%
Boron	10-1	6.18	5.74	5.73	5.89	4.38	ppb
Boron	11-1	6.42	5.96	5.86	6.08	4.95	ppb
Cadmium	106-1	-0.85	-1.06	-1.70	-1.20		ppb
Cadmium	108-1	0.00	0.05	0.08	0.05	91.61	ppb
Cadmium	111-1	0.00	-0.01	-0.03	-0.01		ppb
Calcium	43-1	59.65	60.19	57.86	59.23	2.06	ppb
Calcium	44-1	56.84	54.07	56.65	55.85	2.77	ppb
Chromium	52-2	0.42	0.39	0.41	0.41	3.92	ppb
Cobalt	59-2	0.01	0.01	0.01	0.01	37.65	ppb
Copper	63-2	7.90	7.90	7.84	7.88	0.40	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-2						%
Holmium	165-1						%
Indium	115-1						%
Indium	115-2						%
Iron	56-2	12.39	12.84	12.31	12.51	2.29	ppb
Iron	57-2	12.70	12.45	11.85	12.33	3.51	ppb
Lead	206-1	0.24	0.25	0.26	0.25	4.91	ppb
Lead	207-1	0.23	0.21	0.21	0.21	6.66	ppb
Lead	208-1	0.24	0.24	0.24	0.24	0.85	ppb
Lithium	6-1						%
Magnesium	24-2	6.37	6.34	6.74	6.48	3.40	ppb
Manganese	55-2	2.32	2.27	2.30	2.30	1.01	ppb

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2700-06	Instrumnet Name :	P7
Client Sample ID :	S8-EB-2017-1	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 15:57:09	DataFile Name :	052SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Molybdenum	94-1	0.02	0.04	0.04	0.03	29.99	ppb
Molybdenum	95-1	0.02	0.02	0.06	0.03	67.07	ppb
Molybdenum	96-1	0.01	0.03	0.04	0.03	52.36	ppb
Molybdenum	97-1	0.01	0.03	0.04	0.03	47.20	ppb
Molybdenum	98-1	0.02	0.01	0.07	0.03	92.08	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.35	0.38	0.30	0.34	11.11	ppb
Phosphorus	31-2	-0.04	3.24	2.52	1.90	90.58	ppb
Potassium	39-2	65.23	67.08	66.63	66.31	1.46	ppb
Rhodium	103-2						%
Rhodium	103-1						%
Scandium	45-1						%
Scandium	45-2						%
Selenium	77-2	0.87	1.16	2.03	1.35	44.62	ppb
Selenium	78-2	-0.34	0.32	-0.63	-0.21		ppb
Selenium	82-1	-0.93	-1.25	-0.40	-0.86		ppb
Silicon	28-1	387.17	388.83	386.46	387.49	0.31	ppb
Silver	109-1	0.19	0.18	0.21	0.19	7.87	ppb
Silver	107-1	0.20	0.19	0.20	0.19	2.11	ppb
Sodium	23-2	156.22	158.28	160.35	158.28	1.30	ppb
Strontium	86-1	0.29	0.34	0.41	0.35	16.97	ppb
Strontium	88-1	0.37	0.38	0.37	0.37	1.07	ppb
Sulfur	34-1	-496.18	-676.34	-748.21	-640.24		ppb
Terbium	159-1						%
Terbium	159-2						%
Thallium	203-1	-0.01	-0.01	0.00	-0.01		ppb
Thallium	205-1	0.00	-0.01	-0.01	0.00		ppb
Tin	118-1	0.17	0.17	0.18	0.17	2.81	ppb
Titanium	47-1	0.14	0.18	0.11	0.15	23.62	ppb
Uranium	238-1	-0.01	0.00	-0.01	-0.01		ppb
Vanadium	51-2	0.09	0.09	0.08	0.09	4.97	ppb
Yttrium	89-2						%
Yttrium	89-1						%
Zinc	66-2	8.16	8.35	8.06	8.19	1.78	ppb
Zirconium	90-1	0.02	0.02	0.04	0.03	34.46	ppb

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On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2700-06	Instrumnet Name :	P7
Client Sample ID :	S8-EB-2017-1	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 15:57:09	DataFile Name :	052SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Zirconium	91-1	0.03	0.03	0.03	0.03	11.06	ppb

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2700-06DLX20	Instrumnet Name :	P7
Client Sample ID :	S8-EB-2017-1DL	Dilution Factor :	20
Date & Time Acquired ::	2017-04-18 16:00:38	DataFile Name :	053SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	0.43	0.49	0.32	0.41	20.17	ppb
Antimony	121-1	0.03	0.03	0.04	0.03	17.47	ppb
Arsenic	75-2	0.02	0.03	0.02	0.02	36.19	ppb
Barium	135-1	0.02	0.04	0.02	0.03	40.28	ppb
Barium	137-1	0.00	0.00	0.01	0.00	80.43	ppb
Beryllium	9-1	0.02	0.01	-0.01	0.01	266.89	ppb
Bismuth	209-1						%
Bismuth	209-2						%
Boron	10-1	1.66	2.08	1.45	1.73	18.46	ppb
Boron	11-1	1.55	1.62	1.79	1.65	7.32	ppb
Cadmium	106-1	-1.47	-2.19	-1.11	-1.59		ppb
Cadmium	108-1	-0.03	-0.03	0.01	-0.02		ppb
Cadmium	111-1	-0.04	-0.06	-0.03	-0.04		ppb
Calcium	43-1	7.11	6.83	11.10	8.35	28.56	ppb
Calcium	44-1	0.02	0.56	-1.20	-0.21		ppb
Chromium	52-2	0.02	0.00	0.03	0.02	72.23	ppb
Cobalt	59-2	-0.01	-0.01	-0.01	-0.01		ppb
Copper	63-2	1.17	1.11	1.13	1.14	2.46	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-2						cps
Erbium	164-1						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-2						%
Holmium	165-1						%
Indium	115-1						%
Indium	115-2						%
Iron	56-2	0.76	0.84	0.70	0.76	9.03	ppb
Iron	57-2	0.84	0.95	0.99	0.93	8.46	ppb
Lead	206-1	-0.02	-0.01	-0.03	-0.02		ppb
Lead	207-1	-0.02	-0.05	-0.02	-0.03		ppb
Lead	208-1	-0.02	-0.03	-0.03	-0.03		ppb
Lithium	6-1						%
Magnesium	24-2	0.34	0.49	0.13	0.32	56.97	ppb
Manganese	55-2	0.14	0.13	0.12	0.13	10.58	ppb

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2700-06DLX20	Instrumnet Name :	P7
Client Sample ID :	S8-EB-2017-1DL	Dilution Factor :	20
Date & Time Acquired ::	2017-04-18 16:00:38	DataFile Name :	053SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Molybdenum	94-1	-0.01	0.00	0.01	0.00	634.79	ppb
Molybdenum	95-1	-0.01	0.00	0.01	0.00		ppb
Molybdenum	96-1	-0.02	0.00	0.02	0.00	830.48	ppb
Molybdenum	97-1	0.00	0.00	0.03	0.01	159.84	ppb
Molybdenum	98-1	0.00	0.00	0.02	0.01	223.64	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.01	-0.02	-0.01	-0.01		ppb
Phosphorus	31-2	3.05	2.35	-8.13	-0.91		ppb
Potassium	39-2	8.97	8.41	8.83	8.73	3.35	ppb
Rhodium	103-2						%
Rhodium	103-1						%
Scandium	45-1						%
Scandium	45-2						%
Selenium	77-2	0.00	0.27	0.00	0.09	173.21	ppb
Selenium	78-2	-0.26	0.15	-0.40	-0.17		ppb
Selenium	82-1	-1.27	-0.95	-0.70	-0.97		ppb
Silicon	28-1	15.29	17.15	15.32	15.92	6.69	ppb
Silver	107-1	0.05	0.05	0.04	0.05	9.21	ppb
Silver	109-1	0.05	0.05	0.04	0.05	8.64	ppb
Sodium	23-2	27.59	26.29	26.51	26.80	2.59	ppb
Strontium	86-1	0.05	0.03	-0.07	0.00	4912.80	ppb
Strontium	88-1	0.03	0.03	0.03	0.03	0.28	ppb
Sulfur	34-1	-699.57	-493.13	-688.91	-627.20		ppb
Terbium	159-1						%
Terbium	159-2						%
Thallium	203-1	-0.01	-0.01	-0.01	-0.01		ppb
Thallium	205-1	-0.01	-0.01	-0.01	-0.01		ppb
Tin	118-1	0.01	0.02	0.03	0.02	61.13	ppb
Titanium	47-1	0.08	0.02	0.00	0.03	135.79	ppb
Uranium	238-1	-0.01	-0.01	-0.01	-0.01		ppb
Vanadium	51-2	0.00	0.01	0.01	0.00	96.36	ppb
Yttrium	89-2						%
Yttrium	89-1						%
Zinc	66-2	0.55	0.38	0.53	0.48	18.92	ppb
Zirconium	90-1	0.00	0.00	0.00	0.00		ppb

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2700-06DLX20	Instrumnet Name :	P7
Client Sample ID :	S8-EB-2017-1DL	Dilution Factor :	20
Date & Time Acquired ::	2017-04-18 16:00:38	DataFile Name :	053SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Zirconium	91-1	0.00	0.00	0.01	0.00	185.09	ppb

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2700-10	Instrumnet Name :	P7
Client Sample ID :	S8-0656	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 16:04:08	DataFile Name :	054SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	38.23	32.37	33.34	34.65	9.07	ppb
Antimony	121-1	0.36	0.36	0.33	0.35	4.83	ppb
Arsenic	75-2	272.50	271.98	271.08	271.86	0.26	ppb
Barium	135-1	18.33	18.47	18.52	18.44	0.52	ppb
Barium	137-1	18.63	18.58	18.59	18.60	0.16	ppb
Beryllium	9-1	0.04	0.02	0.04	0.03	30.28	ppb
Bismuth	209-1						%
Bismuth	209-2						%
Boron	10-1	43.10	41.50	42.07	42.22	1.92	ppb
Boron	11-1	40.60	41.45	42.79	41.61	2.66	ppb
Cadmium	106-1	-1.32	-2.41	-0.77	-1.50		ppb
Cadmium	108-1	-0.03	0.05	0.03	0.02	232.55	ppb
Cadmium	111-1	0.00	-0.04	0.00	-0.02		ppb
Calcium	43-1	15249.02	14760.13	14721.59	14910.25	1.97	ppb
Calcium	44-1	15365.35	15176.82	15205.87	15249.35	0.67	ppb
Chromium	52-2	0.61	0.66	0.66	0.65	4.35	ppb
Cobalt	59-2	3.52	3.38	3.44	3.45	2.14	ppb
Copper	63-2	32.18	32.25	32.50	32.31	0.52	ppb
Dysprosium	156-2						cps
Dysprosium	156-1						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-2						cps
Gadolinium	160-1						cps
Holmium	165-2						%
Holmium	165-1						%
Indium	115-1						%
Indium	115-2						%
Iron	56-2	78929.04	79325.44	79487.51	79247.33	0.36	ppb
Iron	57-2	80404.90	79098.66	79324.78	79609.45	0.88	ppb
Lead	206-1	3.27	3.19	3.27	3.24	1.43	ppb
Lead	207-1	2.95	3.02	2.95	2.97	1.46	ppb
Lead	208-1	3.11	3.10	3.11	3.11	0.25	ppb
Lithium	6-1						%
Magnesium	24-2	3752.43	3752.35	3758.90	3754.56	0.10	ppb
Manganese	55-2	1726.84	1724.78	1737.62	1729.75	0.40	ppb

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2700-10	Instrumnet Name :	P7
Client Sample ID :	S8-0656	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 16:04:08	DataFile Name :	054SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Molybdenum	94-1	0.19	0.22	0.23	0.21	8.64	ppb
Molybdenum	95-1	0.52	0.52	0.51	0.52	1.13	ppb
Molybdenum	96-1	0.58	0.57	0.63	0.59	5.65	ppb
Molybdenum	97-1	0.48	0.49	0.49	0.49	0.99	ppb
Molybdenum	98-1	0.48	0.44	0.45	0.46	4.24	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	3.53	2.62	2.82	2.99	15.91	ppb
Phosphorus	31-2	467.03	502.90	528.54	499.49	6.19	ppb
Potassium	39-2	3310.71	3330.04	3314.46	3318.41	0.31	ppb
Rhodium	103-2						%
Rhodium	103-1						%
Scandium	45-1						%
Scandium	45-2						%
Selenium	77-2	0.58	1.15	0.57	0.76	43.21	ppb
Selenium	78-2	0.35	0.62	0.80	0.59	38.00	ppb
Selenium	82-1	0.33	-0.28	-0.61	-0.19		ppb
Silicon	28-1	6843.77	6657.28	6652.52	6717.86	1.62	ppb
Silver	109-1	0.17	0.18	0.18	0.18	5.57	ppb
Silver	107-1	0.16	0.16	0.17	0.16	3.35	ppb
Sodium	23-2	10165.76	10273.87	10217.02	10218.88	0.53	ppb
Strontium	86-1	115.23	114.73	114.26	114.74	0.42	ppb
Strontium	88-1	117.80	118.51	119.52	118.61	0.73	ppb
Sulfur	34-1	1778.95	1421.09	1245.66	1481.90	18.34	ppb
Terbium	159-1						%
Terbium	159-2						%
Thallium	203-1	0.00	0.00	0.00	0.00		ppb
Thallium	205-1	0.00	0.00	0.00	0.00		ppb
Tin	118-1	0.31	0.34	0.37	0.34	9.88	ppb
Titanium	47-1	2.65	2.62	2.61	2.63	0.74	ppb
Uranium	238-1	0.02	0.02	0.03	0.03	11.75	ppb
Vanadium	51-2	0.41	0.41	0.39	0.41	3.00	ppb
Yttrium	89-2						%
Yttrium	89-1						%
Zinc	66-2	27.72	27.73	28.19	27.88	0.97	ppb
Zirconium	90-1	0.08	0.09	0.10	0.09	11.38	ppb

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2700-10	Instrumnet Name :	P7
Client Sample ID :	S8-0656	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 16:04:08	DataFile Name :	054SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Zirconium	91-1	0.19	0.22	0.20	0.20	8.28	ppb

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2700-10DLX20	Instrumnet Name :	P7
Client Sample ID :	S8-0656DL	Dilution Factor :	20
Date & Time Acquired ::	2017-04-18 16:07:37	DataFile Name :	055SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	3.18	3.17	2.57	2.97	11.85	ppb
Antimony	121-1	-0.01	-0.01	0.01	0.00		ppb
Arsenic	75-2	13.70	13.78	13.52	13.67	0.98	ppb
Barium	135-1	0.93	0.94	0.91	0.93	1.54	ppb
Barium	137-1	0.95	0.89	0.91	0.92	3.27	ppb
Beryllium	9-1	0.01	-0.01	0.00	0.00		ppb
Bismuth	209-1						%
Bismuth	209-2						%
Boron	10-1	4.00	3.65	3.38	3.68	8.51	ppb
Boron	11-1	3.54	3.52	3.46	3.51	1.24	ppb
Cadmium	111-1	-0.03	0.00	-0.04	-0.02		ppb
Cadmium	106-1	-1.34	-0.24	-1.48	-1.02		ppb
Cadmium	108-1	-0.02	-0.04	-0.06	-0.04		ppb
Calcium	43-1	736.00	776.31	731.47	747.93	3.30	ppb
Calcium	44-1	744.79	744.65	748.38	745.94	0.28	ppb
Chromium	52-2	0.03	0.04	0.02	0.03	41.63	ppb
Cobalt	59-2	0.16	0.15	0.18	0.16	8.17	ppb
Copper	63-2	2.09	2.09	2.06	2.08	0.83	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-2						cps
Erbium	164-1						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-2						%
Holmium	165-1						%
Indium	115-1						%
Indium	115-2						%
Iron	56-2	3855.57	3825.44	3853.10	3844.70	0.44	ppb
Iron	57-2	3760.07	3789.86	3776.87	3775.60	0.40	ppb
Lead	206-1	0.14	0.12	0.14	0.13	8.48	ppb
Lead	207-1	0.10	0.09	0.10	0.09	3.37	ppb
Lead	208-1	0.11	0.12	0.12	0.12	3.31	ppb
Lithium	6-1						%
Magnesium	24-2	188.20	186.49	181.15	185.28	1.99	ppb
Manganese	55-2	84.69	84.56	84.20	84.48	0.30	ppb

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2700-10DLX20	Instrumnet Name :	P7
Client Sample ID :	S8-0656DL	Dilution Factor :	20
Date & Time Acquired ::	2017-04-18 16:07:37	DataFile Name :	055SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Molybdenum	94-1	0.00	0.01	0.01	0.01	79.02	ppb
Molybdenum	95-1	0.02	0.02	0.03	0.03	22.18	ppb
Molybdenum	96-1	0.01	0.02	0.03	0.02	39.75	ppb
Molybdenum	97-1	0.02	0.03	0.04	0.03	24.11	ppb
Molybdenum	98-1	0.01	0.02	0.03	0.02	60.23	ppb
Neodymium	150-2						cps
Neodymium	150-1						cps
Nickel	60-2	0.09	0.14	0.08	0.10	30.44	ppb
Phosphorus	31-2	44.12	11.77	23.93	26.60	61.42	ppb
Potassium	39-2	165.00	169.43	174.15	169.52	2.70	ppb
Rhodium	103-2						%
Rhodium	103-1						%
Scandium	45-1						%
Scandium	45-2						%
Selenium	82-1	-0.31	-0.34	0.29	-0.12		ppb
Selenium	77-2	0.27	0.27	0.00	0.18	86.61	ppb
Selenium	78-2	-0.31	0.13	-0.26	-0.15		ppb
Silicon	28-1	334.60	336.17	331.25	334.01	0.75	ppb
Silver	109-1	0.03	0.04	0.04	0.04	13.09	ppb
Silver	107-1	0.04	0.04	0.05	0.04	8.94	ppb
Sodium	23-2	510.89	507.79	504.47	507.72	0.63	ppb
Strontium	86-1	5.83	5.48	5.54	5.62	3.40	ppb
Strontium	88-1	5.76	5.64	5.70	5.70	1.00	ppb
Sulfur	34-1	-811.75	-822.88	-804.50	-813.05		ppb
Terbium	159-1						%
Terbium	159-2						%
Thallium	203-1	-0.01	-0.01	-0.01	-0.01		ppb
Thallium	205-1	-0.01	-0.01	-0.01	-0.01		ppb
Tin	118-1	0.02	0.00	0.02	0.02	80.52	ppb
Titanium	47-1	0.13	0.26	0.17	0.19	34.79	ppb
Uranium	238-1	-0.01	0.00	0.00	0.00		ppb
Vanadium	51-2	0.03	0.02	0.03	0.02	16.60	ppb
Yttrium	89-1						%
Yttrium	89-2						%
Zinc	66-2	1.56	1.49	1.41	1.49	4.99	ppb
Zirconium	90-1	0.00	0.00	0.00	0.00	3858.06	ppb

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2700-10DLX20	Instrumnet Name :	P7
Client Sample ID :	S8-0656DL	Dilution Factor :	20
Date & Time Acquired ::	2017-04-18 16:07:37	DataFile Name :	055SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Zirconium	91-1	0.00	0.01	0.01	0.01	66.90	ppb

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2700-10DUP	Instrumnet Name :	P7
Client Sample ID :	S8-0656DUP	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 16:11:05	DataFile Name :	056SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	36.30	37.77	35.23	36.43	3.50	ppb
Antimony	121-1	0.47	0.47	0.47	0.47	0.40	ppb
Arsenic	75-2	276.64	277.92	277.28	277.28	0.23	ppb
Barium	135-1	18.65	18.34	18.34	18.45	0.97	ppb
Barium	137-1	18.73	18.61	18.70	18.68	0.32	ppb
Beryllium	9-1	0.02	0.02	0.02	0.02	18.41	ppb
Bismuth	209-1						%
Bismuth	209-2						%
Boron	10-1	40.35	43.84	42.76	42.32	4.23	ppb
Boron	11-1	41.39	42.55	42.20	42.05	1.42	ppb
Cadmium	111-1	-0.03	-0.01	-0.02	-0.02		ppb
Cadmium	106-1	-2.16	-1.39	-1.73	-1.76		ppb
Cadmium	108-1	0.00	0.03	0.05	0.03	98.32	ppb
Calcium	43-1	15096.79	15215.40	15058.97	15123.72	0.54	ppb
Calcium	44-1	15457.85	15583.15	15483.21	15508.07	0.43	ppb
Chromium	52-2	0.71	0.70	0.71	0.71	0.85	ppb
Cobalt	59-2	3.46	3.41	3.42	3.43	0.85	ppb
Copper	63-2	33.86	34.37	34.37	34.20	0.85	ppb
Dysprosium	156-2						cps
Dysprosium	156-1						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-2						cps
Gadolinium	160-1						cps
Holmium	165-1						%
Holmium	165-2						%
Indium	115-2						%
Indium	115-1						%
Iron	56-2	79162.67	81225.14	80429.78	80272.53	1.30	ppb
Iron	57-2	80096.17	81342.08	81245.89	80894.71	0.86	ppb
Lead	206-1	3.29	3.26	3.20	3.25	1.31	ppb
Lead	207-1	2.93	2.95	3.06	2.98	2.30	ppb
Lead	208-1	3.13	3.10	3.13	3.12	0.42	ppb
Lithium	6-1						%
Magnesium	24-2	3782.11	3796.88	3800.29	3793.09	0.25	ppb
Manganese	55-2	1743.19	1753.00	1743.83	1746.67	0.31	ppb

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2700-10DUP	Instrumnet Name :	P7
Client Sample ID :	S8-0656DUP	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 16:11:05	DataFile Name :	056SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Molybdenum	95-1	0.51	0.46	0.47	0.48	5.86	ppb
Molybdenum	96-1	0.55	0.56	0.59	0.57	3.92	ppb
Molybdenum	97-1	0.53	0.53	0.50	0.52	3.93	ppb
Molybdenum	98-1	0.51	0.45	0.50	0.49	6.68	ppb
Molybdenum	94-1	0.18	0.21	0.24	0.21	14.40	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	2.84	2.95	2.80	2.86	2.77	ppb
Phosphorus	31-2	505.47	509.14	498.77	504.46	1.04	ppb
Potassium	39-2	3324.76	3370.85	3383.01	3359.54	0.91	ppb
Rhodium	103-1						%
Rhodium	103-2						%
Scandium	45-2						%
Scandium	45-1						%
Selenium	82-1	0.39	-0.14	-0.64	-0.13		ppb
Selenium	77-2	1.18	0.88	0.87	0.98	17.86	ppb
Selenium	78-2	-0.04	0.58	0.54	0.36	97.26	ppb
Silicon	28-1	6678.51	6908.69	6647.01	6744.74	2.12	ppb
Silver	109-1	0.20	0.21	0.24	0.22	8.83	ppb
Silver	107-1	0.21	0.21	0.23	0.22	5.59	ppb
Sodium	23-2	10364.34	10333.51	10434.54	10377.46	0.50	ppb
Strontium	86-1	116.71	114.81	115.60	115.71	0.83	ppb
Strontium	88-1	120.55	117.82	120.76	119.71	1.37	ppb
Sulfur	34-1	1277.01	1331.59	997.46	1202.02	14.91	ppb
Terbium	159-1						%
Terbium	159-2						%
Thallium	203-1	0.00	0.00	0.00	0.00		ppb
Thallium	205-1	0.00	0.00	0.00	0.00		ppb
Tin	118-1	0.42	0.43	0.46	0.44	4.54	ppb
Titanium	47-1	3.02	2.99	3.06	3.02	1.15	ppb
Uranium	238-1	0.03	0.03	0.03	0.03	4.08	ppb
Vanadium	51-2	0.46	0.48	0.45	0.46	2.65	ppb
Yttrium	89-2						%
Yttrium	89-1						%
Zinc	66-2	29.30	30.01	29.65	29.65	1.20	ppb
Zirconium	90-1	0.06	0.08	0.08	0.08	12.64	ppb

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2700-10DUP	Instrumnet Name :	P7
Client Sample ID :	S8-0656DUP	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 16:11:05	DataFile Name :	056SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Zirconium	91-1	0.23	0.18	0.19	0.20	13.49	ppb

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2700-10DUPDLX20	Instrumnet Name :	P7
Client Sample ID :	S8-0656DUPDL	Dilution Factor :	20
Date & Time Acquired ::	2017-04-18 16:14:35	DataFile Name :	057SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	2.76	2.77	2.54	2.69	4.85	ppb
Antimony	121-1	0.00	0.00	0.00	0.00		ppb
Arsenic	75-2	14.22	13.81	13.89	13.97	1.56	ppb
Barium	135-1	0.86	0.93	0.87	0.89	4.27	ppb
Barium	137-1	0.85	0.98	0.93	0.92	7.37	ppb
Beryllium	9-1	0.00	0.00	0.01	0.01	22.45	ppb
Bismuth	209-2						%
Bismuth	209-1						%
Boron	10-1	4.03	4.03	3.63	3.90	5.88	ppb
Boron	11-1	4.23	3.85	3.96	4.01	4.82	ppb
Cadmium	106-1	-1.41	-1.00	-1.39	-1.27		ppb
Cadmium	108-1	-0.03	-0.03	-0.03	-0.03		ppb
Cadmium	111-1	-0.04	-0.03	-0.03	-0.03		ppb
Calcium	43-1	751.38	750.34	756.53	752.75	0.44	ppb
Calcium	44-1	751.29	741.40	744.93	745.87	0.67	ppb
Chromium	52-2	0.02	0.02	0.04	0.03	32.53	ppb
Cobalt	59-2	0.15	0.16	0.18	0.16	9.03	ppb
Copper	63-2	2.18	2.26	2.20	2.21	1.80	ppb
Dysprosium	156-2						cps
Dysprosium	156-1						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-2						cps
Gadolinium	160-1						cps
Holmium	165-2						%
Holmium	165-1						%
Indium	115-1						%
Indium	115-2						%
Iron	56-2	3905.78	3958.88	3907.78	3924.15	0.77	ppb
Iron	57-2	3774.97	3853.74	3805.62	3811.44	1.04	ppb
Lead	206-1	0.13	0.12	0.11	0.12	9.26	ppb
Lead	207-1	0.12	0.09	0.10	0.10	15.90	ppb
Lead	208-1	0.12	0.12	0.11	0.11	3.84	ppb
Lithium	6-1						%
Magnesium	24-2	182.97	189.59	186.95	186.50	1.79	ppb
Manganese	55-2	84.20	85.51	85.27	84.99	0.82	ppb

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2700-10DUPDLX20	Instrumnet Name :	P7
Client Sample ID :	S8-0656DUPDL	Dilution Factor :	20
Date & Time Acquired ::	2017-04-18 16:14:35	DataFile Name :	057SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Molybdenum	94-1	0.00	0.01	0.01	0.01	42.65	ppb
Molybdenum	95-1	0.01	0.01	0.02	0.01	28.06	ppb
Molybdenum	96-1	0.01	0.00	0.03	0.01	125.36	ppb
Molybdenum	97-1	0.00	0.01	0.04	0.02	135.93	ppb
Molybdenum	98-1	0.01	0.01	0.02	0.01	77.63	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.13	0.09	0.13	0.12	20.46	ppb
Phosphorus	31-2	19.41	9.38	35.71	21.50	61.79	ppb
Potassium	39-2	172.69	172.86	169.70	171.75	1.04	ppb
Rhodium	103-2						%
Rhodium	103-1						%
Scandium	45-1						%
Scandium	45-2						%
Selenium	77-2	0.28	0.54	0.00	0.27	99.52	ppb
Selenium	78-2	-0.24	0.34	0.04	0.05	640.83	ppb
Selenium	82-1	-1.54	0.10	-0.61	-0.68		ppb
Silicon	28-1	337.10	331.89	342.81	337.27	1.62	ppb
Silver	109-1	0.04	0.05	0.05	0.05	6.71	ppb
Silver	107-1	0.05	0.05	0.06	0.05	7.82	ppb
Sodium	23-2	513.15	519.62	512.95	515.24	0.74	ppb
Strontium	86-1	5.61	5.65	5.58	5.61	0.62	ppb
Strontium	88-1	5.70	5.78	5.71	5.73	0.79	ppb
Sulfur	34-1	-996.60	-992.00	-867.38	-951.99		ppb
Terbium	159-1						%
Terbium	159-2						%
Thallium	203-1	-0.01	-0.01	-0.01	-0.01		ppb
Thallium	205-1	-0.01	-0.01	-0.01	-0.01		ppb
Tin	118-1	0.02	0.02	0.03	0.02	29.75	ppb
Titanium	47-1	0.11	0.11	0.17	0.13	26.78	ppb
Uranium	238-1	0.00	-0.01	0.00	0.00		ppb
Vanadium	51-2	0.03	0.03	0.02	0.03	24.00	ppb
Yttrium	89-2						%
Yttrium	89-1						%
Zinc	66-2	1.54	1.49	1.54	1.52	2.09	ppb
Zirconium	90-1	-0.01	0.00	0.00	0.00		ppb

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2700-10DUPDLX20	Instrumnet Name :	P7
Client Sample ID :	S8-0656DUPDL	Dilution Factor :	20
Date & Time Acquired ::	2017-04-18 16:14:35	DataFile Name :	057SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Zirconium	91-1	0.01	0.00	0.00	0.00	67.14	ppb

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On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	CCV67	Instrumnet Name :	P7
Client Sample ID :	CCV67	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 16:18:04	DataFile Name :	058CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	9504.69	9405.25	9461.10	9457.01	0.53	ppb
Antimony	121-1	501.98	497.98	493.49	497.82	0.85	ppb
Arsenic	75-2	504.32	502.83	506.40	504.52	0.36	ppb
Barium	135-1	2523.54	2576.20	2510.23	2536.66	1.38	ppb
Barium	137-1	2516.20	2532.17	2495.51	2514.63	0.73	ppb
Beryllium	9-1	515.22	511.96	508.44	511.87	0.66	ppb
Bismuth	209-1						%
Bismuth	209-2						%
Boron	10-1	487.93	492.35	491.27	490.52	0.47	ppb
Boron	11-1	477.88	489.10	483.67	483.55	1.16	ppb
Cadmium	106-1	506.90	494.47	498.15	499.84	1.28	ppb
Cadmium	108-1	499.86	505.55	505.25	503.55	0.64	ppb
Cadmium	111-1	507.17	507.16	501.06	505.13	0.70	ppb
Calcium	43-1	47735.57	48066.17	48209.72	48003.82	0.51	ppb
Calcium	44-1	48927.72	48250.88	48603.37	48593.99	0.70	ppb
Chromium	52-2	508.14	506.67	511.05	508.62	0.44	ppb
Cobalt	59-2	507.83	507.76	511.16	508.92	0.38	ppb
Copper	63-2	1055.66	1053.33	1066.19	1058.40	0.65	ppb
Dysprosium	156-2						cps
Dysprosium	156-1						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-2						cps
Gadolinium	160-1						cps
Holmium	165-2						%
Holmium	165-1						%
Indium	115-1						%
Indium	115-2						%
Iron	56-2	25710.31	25769.24	25641.60	25707.05	0.25	ppb
Iron	57-2	25118.91	25074.04	25325.94	25172.96	0.53	ppb
Lead	206-1	487.24	489.13	489.65	488.67	0.26	ppb
Lead	207-1	478.53	484.18	481.40	481.37	0.59	ppb
Lead	208-1	489.14	492.98	492.43	491.52	0.42	ppb
Lithium	6-1						%
Magnesium	24-2	50615.91	49888.76	49886.25	50130.31	0.84	ppb
Manganese	55-2	1021.64	1017.69	1015.66	1018.33	0.30	ppb

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	CCV67	Instrumnet Name :	P7
Client Sample ID :	CCV67	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 16:18:04	DataFile Name :	058CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Molybdenum	94-1	500.37	501.21	493.65	498.41	0.83	ppb
Molybdenum	95-1	498.81	494.93	489.27	494.34	0.97	ppb
Molybdenum	96-1	493.28	490.02	484.99	489.43	0.85	ppb
Molybdenum	97-1	498.42	492.58	485.40	492.13	1.33	ppb
Molybdenum	98-1	508.55	498.96	499.57	502.36	1.07	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	518.47	518.67	520.95	519.36	0.27	ppb
Phosphorus	31-2	9909.04	10180.99	9997.77	10029.27	1.38	ppb
Potassium	39-2	24360.56	24431.62	24189.74	24327.31	0.51	ppb
Rhodium	103-2						%
Rhodium	103-1						%
Scandium	45-1						%
Scandium	45-2						%
Selenium	77-2	513.60	514.67	504.86	511.04	1.05	ppb
Selenium	78-2	500.96	492.80	502.57	498.78	1.05	ppb
Selenium	82-1	508.04	508.04	504.44	506.84	0.41	ppb
Silicon	28-1	476.95	481.15	484.47	480.86	0.78	ppb
Silver	109-1	509.95	516.94	507.95	511.61	0.92	ppb
Silver	107-1	512.46	511.43	511.18	511.69	0.13	ppb
Sodium	23-2	50721.54	50578.69	50516.98	50605.74	0.21	ppb
Strontium	86-1	490.98	496.18	490.43	492.53	0.64	ppb
Strontium	88-1	504.88	504.67	503.82	504.46	0.11	ppb
Sulfur	34-1	9702.00	9645.68	9873.53	9740.40	1.22	ppb
Terbium	159-1						%
Terbium	159-2						%
Thallium	203-1	497.85	502.67	499.96	500.16	0.48	ppb
Thallium	205-1	502.02	499.73	505.18	502.31	0.54	ppb
Tin	118-1	509.76	508.68	504.87	507.77	0.51	ppb
Titanium	47-1	493.92	488.94	497.07	493.31	0.83	ppb
Uranium	238-1	476.33	478.09	483.11	479.18	0.73	ppb
Vanadium	51-2	508.04	507.84	510.98	508.96	0.35	ppb
Yttrium	89-2						%
Yttrium	89-1						%
Zinc	66-2	1030.94	1030.33	1042.78	1034.68	0.68	ppb
Zirconium	90-1	501.52	501.64	498.91	500.69	0.31	ppb

Reviewed By:jaswal
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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	CCV67	Instrumnet Name :	P7
Client Sample ID :	CCV67	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 16:18:04	DataFile Name :	058CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Zirconium	91-1	491.26	491.19	486.67	489.71	0.54	ppb

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On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	CCB67	Instrumnet Name :	P7
Client Sample ID :	CCB67	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 16:30:27	DataFile Name :	059CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	0.32	0.16	0.17	0.21	41.50	ppb
Antimony	121-1	0.60	0.82	1.04	0.82	27.08	ppb
Arsenic	75-2	0.06	0.08	0.14	0.09	42.50	ppb
Barium	135-1	0.00	0.00	-0.01	0.00		ppb
Barium	137-1	-0.01	-0.02	-0.02	-0.02		ppb
Beryllium	9-1	0.02	0.01	0.00	0.01	85.54	ppb
Bismuth	209-1						%
Bismuth	209-2						%
Boron	10-1	2.31	2.06	2.96	2.44	19.11	ppb
Boron	11-1	2.55	2.55	2.48	2.53	1.47	ppb
Cadmium	108-1	0.01	-0.02	0.01	0.00	742.92	ppb
Cadmium	111-1	-0.03	-0.04	-0.04	-0.04		ppb
Cadmium	106-1	-1.17	-1.60	-1.65	-1.47		ppb
Calcium	43-1	0.45	-1.88	-3.28	-1.57		ppb
Calcium	44-1	-8.86	-8.59	-9.10	-8.85		ppb
Chromium	52-2	0.00	0.01	0.01	0.01	78.11	ppb
Cobalt	59-2	0.00	-0.01	-0.01	0.00		ppb
Copper	63-2	0.43	0.48	0.50	0.47	7.97	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-2						cps
Erbium	164-1						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-2						%
Holmium	165-1						%
Indium	115-1						%
Indium	115-2						%
Iron	56-2	0.16	0.23	0.29	0.23	29.87	ppb
Iron	57-2	-0.14	0.20	0.15	0.07	259.31	ppb
Lead	206-1	0.00	-0.01	0.01	0.00	423.94	ppb
Lead	207-1	0.00	0.00	0.00	0.00		ppb
Lead	208-1	0.00	0.01	0.00	0.00	118.15	ppb
Lithium	6-1						%
Magnesium	24-2	0.23	0.06	0.03	0.11	100.25	ppb
Manganese	55-2	0.00	0.01	0.01	0.01	91.56	ppb

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	CCB67	Instrumnet Name :	P7
Client Sample ID :	CCB67	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 16:30:27	DataFile Name :	059CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Molybdenum	94-1	0.03	0.04	0.07	0.05	36.38	ppb
Molybdenum	95-1	0.07	0.11	0.21	0.13	51.84	ppb
Molybdenum	96-1	0.06	0.10	0.16	0.11	48.68	ppb
Molybdenum	97-1	0.09	0.11	0.20	0.13	46.30	ppb
Molybdenum	98-1	0.08	0.13	0.20	0.14	43.77	ppb
Neodymium	150-2						cps
Neodymium	150-1						cps
Nickel	60-2	0.00	-0.03	-0.03	-0.02		ppb
Phosphorus	31-2	-7.62	-1.44	6.86	-0.73		ppb
Potassium	39-2	5.28	5.96	8.60	6.62	26.51	ppb
Rhodium	103-2						%
Rhodium	103-1						%
Scandium	45-1						%
Scandium	45-2						%
Selenium	77-2	0.54	0.27	0.28	0.37	41.96	ppb
Selenium	78-2	-0.16	-0.50	0.56	-0.04		ppb
Selenium	82-1	0.68	-0.09	-0.66	-0.02		ppb
Silicon	28-1	-4.60	-5.29	-4.29	-4.73		ppb
Silver	107-1	0.01	0.01	0.02	0.02	10.89	ppb
Silver	109-1	0.02	0.02	0.02	0.02	12.16	ppb
Sodium	23-2	7.72	7.62	9.47	8.27	12.55	ppb
Strontium	86-1	-0.05	0.02	-0.09	-0.04		ppb
Strontium	88-1	0.00	0.00	0.00	0.00	131.50	ppb
Sulfur	34-1	-744.49	-755.68	-563.36	-687.84		ppb
Terbium	159-2						%
Terbium	159-1						%
Thallium	203-1	0.00	0.00	0.00	0.00		ppb
Thallium	205-1	0.00	0.00	0.00	0.00	46.13	ppb
Tin	118-1	0.01	0.03	0.04	0.03	50.92	ppb
Titanium	47-1	-0.01	-0.02	-0.03	-0.02		ppb
Uranium	238-1	-0.01	-0.01	-0.01	-0.01		ppb
Vanadium	51-2	0.00	0.00	0.00	0.00	698.10	ppb
Yttrium	89-2						%
Yttrium	89-1						%
Zinc	66-2	0.05	-0.03	0.06	0.02	199.88	ppb
Zirconium	90-1	0.00	0.00	0.01	0.01	28.36	ppb

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On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	CCB67	Instrumnet Name :	P7
Client Sample ID :	CCB67	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 16:30:27	DataFile Name :	059CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Zirconium	91-1	0.01	0.01	0.02	0.01	52.79	ppb

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2700-01DLX20	Instrumnet Name :	P7
Client Sample ID :	S8-0651DL	Dilution Factor :	20
Date & Time Acquired ::	2017-04-18 16:33:57	DataFile Name :	060SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	0.69	0.41	0.88	0.66	35.50	ppb
Antimony	121-1	0.20	0.25	0.32	0.26	22.71	ppb
Arsenic	75-2	2.50	2.45	2.41	2.45	1.86	ppb
Barium	135-1	1.79	1.81	1.85	1.82	1.53	ppb
Barium	137-1	1.81	1.90	1.90	1.87	2.78	ppb
Beryllium	9-1	-0.01	0.02	0.00	0.00	283.84	ppb
Bismuth	209-2						%
Bismuth	209-1						%
Boron	10-1	2.71	2.94	2.82	2.82	4.05	ppb
Boron	11-1	3.02	2.91	2.91	2.95	2.14	ppb
Cadmium	106-1	-1.71	-1.15	-0.64	-1.16		ppb
Cadmium	108-1	0.04	-0.04	-0.04	-0.01		ppb
Cadmium	111-1	-0.04	-0.03	-0.02	-0.03		ppb
Calcium	43-1	2354.15	2371.64	2357.09	2360.96	0.40	ppb
Calcium	44-1	2344.11	2350.02	2326.12	2340.08	0.53	ppb
Chromium	52-2	0.04	0.04	0.03	0.04	27.60	ppb
Cobalt	59-2	0.18	0.18	0.18	0.18	2.36	ppb
Copper	63-2	0.56	0.63	0.60	0.59	5.98	ppb
Dysprosium	156-2						cps
Dysprosium	156-1						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-2						cps
Gadolinium	160-1						cps
Holmium	165-1						%
Holmium	165-2						%
Indium	115-1						%
Indium	115-2						%
Iron	56-2	444.19	443.49	444.58	444.09	0.12	ppb
Iron	57-2	446.64	442.16	449.05	445.95	0.78	ppb
Lead	206-1	0.02	0.01	0.02	0.02	32.84	ppb
Lead	207-1	0.01	0.01	0.00	0.01	89.15	ppb
Lead	208-1	0.01	0.01	0.00	0.01	57.75	ppb
Lithium	6-1						%
Magnesium	24-2	545.51	549.38	543.59	546.16	0.54	ppb
Manganese	55-2	271.67	268.63	270.33	270.21	0.56	ppb

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2700-01DLX20	Instrumnet Name :	P7
Client Sample ID :	S8-0651DL	Dilution Factor :	20
Date & Time Acquired ::	2017-04-18 16:33:57	DataFile Name :	060SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Molybdenum	94-1	0.03	0.03	0.04	0.03	27.22	ppb
Molybdenum	95-1	0.05	0.08	0.13	0.09	40.77	ppb
Molybdenum	96-1	0.04	0.07	0.08	0.06	28.16	ppb
Molybdenum	97-1	0.06	0.07	0.11	0.08	32.12	ppb
Molybdenum	98-1	0.06	0.06	0.10	0.08	34.34	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.17	0.18	0.15	0.17	7.19	ppb
Phosphorus	31-2	-4.63	-9.03	11.74	-0.64		ppb
Potassium	39-2	117.02	116.06	112.66	115.25	1.99	ppb
Rhodium	103-2						%
Rhodium	103-1						%
Scandium	45-1						%
Scandium	45-2						%
Selenium	77-2	0.27	0.27	0.00	0.18	86.60	ppb
Selenium	78-2	0.99	-0.11	0.43	0.44	125.09	ppb
Selenium	82-1	-1.19	0.68	0.45	-0.02		ppb
Silicon	28-1	494.98	504.81	491.37	497.05	1.40	ppb
Silver	109-1	0.03	0.03	0.03	0.03	12.21	ppb
Silver	107-1	0.02	0.03	0.03	0.03	18.93	ppb
Sodium	23-2	1285.17	1289.96	1282.17	1285.77	0.31	ppb
Strontium	86-1	15.68	15.49	15.21	15.46	1.55	ppb
Strontium	88-1	15.83	15.72	15.66	15.74	0.54	ppb
Sulfur	34-1	85.36	222.05	-88.04	73.13	212.52	ppb
Terbium	159-2						%
Terbium	159-1						%
Thallium	203-1	0.00	0.00	0.00	0.00	1149.75	ppb
Thallium	205-1	0.00	0.00	0.00	0.00		ppb
Tin	118-1	0.04	0.03	0.06	0.04	34.35	ppb
Titanium	47-1	0.04	0.05	-0.01	0.03	110.60	ppb
Uranium	238-1	0.00	0.00	0.00	0.00	1.12	ppb
Vanadium	51-2	0.01	0.01	0.01	0.01	14.89	ppb
Yttrium	89-2						%
Yttrium	89-1						%
Zinc	66-2	0.62	0.51	0.65	0.59	12.06	ppb
Zirconium	90-1	0.01	0.01	0.01	0.01	11.80	ppb

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2700-01DLX20	Instrumnet Name :	P7
Client Sample ID :	S8-0651DL	Dilution Factor :	20
Date & Time Acquired ::	2017-04-18 16:33:57	DataFile Name :	060SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Zirconium	91-1	0.01	0.01	0.00	0.01	55.57	ppb

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2700-11	Instrumnet Name :	P7
Client Sample ID :	S8-0656MS	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 16:37:27	DataFile Name :	061SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	9187.62	9043.99	9180.51	9137.37	0.89	ppb
Antimony	121-1	490.41	483.90	488.24	487.52	0.68	ppb
Arsenic	75-2	753.46	756.62	757.75	755.94	0.29	ppb
Barium	135-1	2468.26	2470.51	2487.06	2475.27	0.41	ppb
Barium	137-1	2461.40	2444.77	2473.64	2459.94	0.59	ppb
Beryllium	9-1	426.89	426.86	423.44	425.73	0.47	ppb
Bismuth	209-1						%
Bismuth	209-2						%
Boron	10-1	898.72	898.44	900.54	899.23	0.13	ppb
Boron	11-1	883.08	877.92	875.75	878.92	0.43	ppb
Cadmium	106-1	451.08	459.11	461.41	457.20	1.19	ppb
Cadmium	108-1	468.09	464.66	472.64	468.46	0.85	ppb
Cadmium	111-1	461.10	464.59	464.66	463.45	0.44	ppb
Calcium	43-1	63747.65	63072.56	63574.78	63465.00	0.55	ppb
Calcium	44-1	64699.02	64023.66	63915.03	64212.57	0.66	ppb
Chromium	52-2	505.46	495.92	500.85	500.74	0.95	ppb
Cobalt	59-2	506.12	499.03	507.02	504.06	0.87	ppb
Copper	63-2	1146.32	1115.80	1138.69	1133.61	1.40	ppb
Dysprosium	156-2						cps
Dysprosium	156-1						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-2						cps
Gadolinium	160-1						cps
Holmium	165-2						%
Holmium	165-1						%
Indium	115-1						%
Indium	115-2						%
Iron	56-2	102543.40	100122.17	101189.91	101285.16	1.20	ppb
Iron	57-2	103426.51	101469.24	101342.87	102079.54	1.14	ppb
Lead	206-1	482.78	493.26	496.63	490.89	1.47	ppb
Lead	207-1	441.16	449.71	448.31	446.39	1.03	ppb
Lead	208-1	470.41	479.66	478.41	476.16	1.05	ppb
Lithium	6-1						%
Magnesium	24-2	52842.13	51631.19	52007.90	52160.40	1.19	ppb
Manganese	55-2	2691.27	2657.02	2709.83	2686.04	1.00	ppb

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2700-11	Instrumnet Name :	P7
Client Sample ID :	S8-0656MS	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 16:37:27	DataFile Name :	061SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Molybdenum	94-1	617.67	623.88	615.62	619.06	0.70	ppb
Molybdenum	95-1	990.44	992.65	982.54	988.54	0.54	ppb
Molybdenum	96-1	902.24	900.48	906.46	903.06	0.34	ppb
Molybdenum	97-1	978.44	973.56	970.98	974.33	0.39	ppb
Molybdenum	98-1	993.29	992.64	989.76	991.90	0.19	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	520.00	514.69	521.76	518.81	0.71	ppb
Phosphorus	31-2	496.85	417.84	487.20	467.30	9.22	ppb
Potassium	39-2	26906.66	26439.93	26591.06	26645.88	0.89	ppb
Rhodium	103-2						%
Rhodium	103-1						%
Scandium	45-1						%
Scandium	45-2						%
Selenium	77-2	469.56	478.65	483.48	477.23	1.48	ppb
Selenium	78-2	469.56	473.24	479.21	474.01	1.03	ppb
Selenium	82-1	474.67	482.54	473.98	477.06	1.00	ppb
Silicon	28-1	7263.91	7096.55	7212.21	7190.89	1.19	ppb
Silver	109-1	218.53	219.42	221.50	219.82	0.69	ppb
Silver	107-1	218.38	220.28	221.00	219.89	0.62	ppb
Sodium	23-2	59030.58	58097.85	58207.19	58445.21	0.87	ppb
Strontium	86-1	513.96	518.72	516.22	516.30	0.46	ppb
Strontium	88-1	526.45	529.54	531.65	529.21	0.49	ppb
Sulfur	34-1	1585.26	1249.51	1354.94	1396.57	12.29	ppb
Terbium	159-1						%
Terbium	159-2						%
Thallium	203-1	462.10	466.71	478.45	469.09	1.80	ppb
Thallium	205-1	464.87	472.59	473.66	470.37	1.02	ppb
Tin	118-1	955.24	957.01	958.07	956.77	0.15	ppb
Titanium	47-1	960.47	943.42	948.61	950.83	0.92	ppb
Uranium	238-1	448.42	450.71	453.87	451.00	0.61	ppb
Vanadium	51-2	496.68	485.20	489.94	490.61	1.18	ppb
Yttrium	89-2						%
Yttrium	89-1						%
Zinc	66-2	1057.11	1048.86	1057.46	1054.47	0.46	ppb
Zirconium	90-1	457.57	463.40	460.22	460.40	0.63	ppb

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LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2700-11	Instrumnet Name :	P7
Client Sample ID :	S8-0656MS	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 16:37:27	DataFile Name :	061SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Zirconium	91-1	447.42	454.36	448.49	450.09	0.83	ppb

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2700-11DLX20	Instrumnet Name :	P7
Client Sample ID :	S8-0656MSDL	Dilution Factor :	20
Date & Time Acquired ::	2017-04-18 16:40:51	DataFile Name :	062SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	467.68	465.66	464.80	466.05	0.32	ppb
Antimony	121-1	24.78	24.66	24.41	24.62	0.78	ppb
Arsenic	75-2	38.68	37.74	37.96	38.13	1.28	ppb
Barium	135-1	121.52	122.69	123.24	122.48	0.72	ppb
Barium	137-1	122.35	122.19	123.27	122.60	0.48	ppb
Beryllium	9-1	24.18	24.46	24.74	24.46	1.15	ppb
Bismuth	209-1						%
Bismuth	209-2						%
Boron	10-1	64.00	64.47	64.32	64.26	0.38	ppb
Boron	11-1	65.39	65.33	65.55	65.42	0.17	ppb
Cadmium	106-1	21.16	21.58	20.60	21.11	2.33	ppb
Cadmium	108-1	23.54	23.46	22.39	23.13	2.77	ppb
Cadmium	111-1	24.08	24.79	24.13	24.34	1.63	ppb
Calcium	43-1	3152.85	3255.86	3207.68	3205.46	1.61	ppb
Calcium	44-1	3166.00	3204.70	3203.59	3191.43	0.69	ppb
Chromium	52-2	24.93	25.27	24.92	25.04	0.79	ppb
Cobalt	59-2	25.16	25.36	24.98	25.17	0.76	ppb
Copper	63-2	55.56	55.86	55.83	55.75	0.30	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-2						cps
Erbium	164-1						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-2						%
Holmium	165-1						%
Indium	115-1						%
Indium	115-2						%
Iron	56-2	5125.66	5118.92	5098.87	5114.48	0.27	ppb
Iron	57-2	4984.87	4997.82	5009.23	4997.31	0.24	ppb
Lead	206-1	24.90	25.07	24.28	24.75	1.70	ppb
Lead	207-1	22.48	22.61	22.19	22.42	0.96	ppb
Lead	208-1	23.79	23.97	23.50	23.76	0.99	ppb
Lithium	6-1						%
Magnesium	24-2	2629.02	2653.77	2650.20	2644.33	0.51	ppb
Manganese	55-2	133.96	134.33	133.30	133.86	0.39	ppb

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2700-11DLX20	Instrumnet Name :	P7
Client Sample ID :	S8-0656MSDL	Dilution Factor :	20
Date & Time Acquired ::	2017-04-18 16:40:51	DataFile Name :	062SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Molybdenum	94-1	30.06	30.11	29.55	29.91	1.04	ppb
Molybdenum	95-1	47.93	47.99	46.75	47.56	1.47	ppb
Molybdenum	96-1	42.87	42.56	42.46	42.63	0.49	ppb
Molybdenum	97-1	48.20	47.86	46.72	47.59	1.63	ppb
Molybdenum	98-1	47.39	47.18	46.69	47.09	0.76	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	25.76	26.30	26.32	26.12	1.21	ppb
Phosphorus	31-2	9.05	19.48	14.38	14.31	36.47	ppb
Potassium	39-2	1344.37	1337.36	1337.03	1339.59	0.31	ppb
Rhodium	103-1						%
Rhodium	103-2						%
Scandium	45-1						%
Scandium	45-2						%
Selenium	77-2	31.40	20.39	21.82	24.54	24.40	ppb
Selenium	78-2	22.81	26.03	25.54	24.79	7.01	ppb
Selenium	82-1	25.70	24.83	23.48	24.67	4.54	ppb
Silicon	28-1	372.26	373.26	373.96	373.16	0.23	ppb
Silver	109-1	11.50	11.58	11.41	11.50	0.74	ppb
Silver	107-1	11.40	11.41	11.43	11.41	0.10	ppb
Sodium	23-2	2934.08	2966.66	2939.63	2946.79	0.59	ppb
Strontium	86-1	25.98	25.84	25.49	25.77	0.99	ppb
Strontium	88-1	26.29	26.30	25.84	26.14	1.00	ppb
Sulfur	34-1	-1109.94	-1193.76	-1150.09	-1151.27		ppb
Terbium	159-1						%
Terbium	159-2						%
Thallium	203-1	22.95	22.97	22.51	22.81	1.14	ppb
Thallium	205-1	23.45	23.59	22.70	23.25	2.07	ppb
Tin	118-1	48.27	48.13	47.57	47.99	0.77	ppb
Titanium	47-1	47.22	47.49	47.69	47.46	0.50	ppb
Uranium	238-1	20.89	21.01	20.71	20.87	0.72	ppb
Vanadium	51-2	24.44	24.22	24.20	24.29	0.56	ppb
Yttrium	89-1						%
Yttrium	89-2						%
Zinc	66-2	55.08	54.60	55.39	55.02	0.73	ppb
Zirconium	90-1	22.35	22.55	21.84	22.25	1.67	ppb

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LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2700-11DLX20	Instrumnet Name :	P7
Client Sample ID :	S8-0656MSDL	Dilution Factor :	20
Date & Time Acquired ::	2017-04-18 16:40:51	DataFile Name :	062SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Zirconium	91-1	22.25	22.36	21.93	22.18	0.99	ppb

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2700-12	Instrumnet Name :	P7
Client Sample ID :	S8-0656MSD	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 16:44:21	DataFile Name :	063SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	9828.13	9794.22	9810.49	9810.95	0.17	ppb
Antimony	121-1	524.01	532.38	529.35	528.58	0.80	ppb
Arsenic	75-2	802.85	818.10	809.85	810.27	0.94	ppb
Barium	135-1	2676.83	2685.40	2717.04	2693.09	0.79	ppb
Barium	137-1	2686.67	2682.52	2668.27	2679.16	0.36	ppb
Beryllium	9-1	475.69	467.50	462.96	468.72	1.38	ppb
Bismuth	209-2						%
Bismuth	209-1						%
Boron	10-1	1005.10	995.39	996.19	998.89	0.54	ppb
Boron	11-1	987.63	979.46	974.85	980.65	0.66	ppb
Cadmium	106-1	487.51	487.68	497.38	490.86	1.15	ppb
Cadmium	108-1	500.39	504.04	502.86	502.43	0.37	ppb
Cadmium	111-1	498.88	496.50	499.58	498.32	0.32	ppb
Calcium	43-1	67541.50	67422.24	68726.73	67896.82	1.06	ppb
Calcium	44-1	69306.10	69178.00	68870.83	69118.31	0.32	ppb
Chromium	52-2	543.71	547.09	540.57	543.79	0.60	ppb
Cobalt	59-2	544.89	549.65	546.32	546.95	0.45	ppb
Copper	63-2	1230.55	1228.16	1221.11	1226.61	0.40	ppb
Dysprosium	156-2						cps
Dysprosium	156-1						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-2						cps
Gadolinium	160-1						cps
Holmium	165-2						%
Holmium	165-1						%
Indium	115-1						%
Indium	115-2						%
Iron	57-2	110559.57	111215.91	109894.87	110556.78	0.60	ppb
Iron	56-2	110576.11	110256.48	109952.23	110261.61	0.28	ppb
Lead	206-1	528.93	539.89	542.62	537.15	1.35	ppb
Lead	207-1	478.64	489.62	492.59	486.95	1.51	ppb
Lead	208-1	510.76	522.51	524.54	519.27	1.43	ppb
Lithium	6-1						%
Magnesium	24-2	56366.65	56250.43	55905.74	56174.27	0.43	ppb
Manganese	55-2	2922.04	2903.98	2914.42	2913.48	0.31	ppb

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2700-12	Instrumnet Name :	P7
Client Sample ID :	S8-0656MSD	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 16:44:21	DataFile Name :	063SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Molybdenum	94-1	660.98	671.52	670.10	667.53	0.86	ppb
Molybdenum	95-1	1067.60	1077.88	1077.51	1074.33	0.54	ppb
Molybdenum	96-1	969.17	982.51	991.90	981.19	1.16	ppb
Molybdenum	97-1	1057.54	1054.58	1067.70	1059.94	0.65	ppb
Molybdenum	98-1	1070.33	1081.23	1083.59	1078.38	0.66	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	557.26	565.87	556.75	559.96	0.92	ppb
Phosphorus	31-2	516.41	542.91	544.75	534.69	2.97	ppb
Potassium	39-2	28847.81	28749.02	28767.92	28788.25	0.18	ppb
Rhodium	103-2						%
Rhodium	103-1						%
Scandium	45-1						%
Scandium	45-2						%
Selenium	77-2	508.23	508.62	528.31	515.05	2.23	ppb
Selenium	78-2	514.42	508.24	506.60	509.75	0.81	ppb
Selenium	82-1	508.84	516.83	515.92	513.87	0.85	ppb
Silicon	28-1	7709.07	7719.34	7744.31	7724.24	0.23	ppb
Silver	109-1	235.42	234.74	235.66	235.27	0.20	ppb
Silver	107-1	234.37	235.56	236.23	235.39	0.40	ppb
Sodium	23-2	63753.67	62995.73	62721.03	63156.81	0.85	ppb
Strontium	86-1	553.87	553.90	561.96	556.57	0.84	ppb
Strontium	88-1	564.83	569.52	579.64	571.33	1.33	ppb
Sulfur	34-1	1437.97	1354.64	1346.24	1379.62	3.68	ppb
Terbium	159-2						%
Terbium	159-1						%
Thallium	203-1	512.68	512.31	519.90	514.96	0.83	ppb
Thallium	205-1	504.20	516.21	516.20	512.20	1.35	ppb
Tin	118-1	1042.27	1025.69	1038.67	1035.54	0.84	ppb
Titanium	47-1	1025.26	1025.76	1031.45	1027.49	0.33	ppb
Uranium	238-1	486.60	494.75	493.33	491.56	0.89	ppb
Vanadium	51-2	530.26	530.44	529.10	529.93	0.14	ppb
Yttrium	89-2						%
Yttrium	89-1						%
Zinc	66-2	1138.04	1149.33	1140.34	1142.57	0.52	ppb
Zirconium	90-1	492.99	496.15	501.46	496.87	0.86	ppb

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LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2700-12	Instrumnet Name :	P7
Client Sample ID :	S8-0656MSD	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 16:44:21	DataFile Name :	063SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Zirconium	91-1	481.53	487.96	488.15	485.88	0.78	ppb

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2700-12DLX20	Instrumnet Name :	P7
Client Sample ID :	S8-0656MSDDL	Dilution Factor :	20
Date & Time Acquired ::	2017-04-18 16:47:45	DataFile Name :	064SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	527.49	511.89	521.46	520.28	1.51	ppb
Antimony	121-1	26.51	26.40	26.34	26.41	0.33	ppb
Arsenic	75-2	41.18	41.80	41.17	41.38	0.88	ppb
Barium	135-1	133.34	132.64	131.63	132.54	0.65	ppb
Barium	137-1	133.78	132.85	132.22	132.95	0.59	ppb
Beryllium	9-1	25.89	26.22	26.17	26.09	0.67	ppb
Bismuth	209-1						%
Bismuth	209-2						%
Boron	10-1	77.97	76.53	71.37	75.29	4.60	ppb
Boron	11-1	73.87	73.15	73.45	73.49	0.50	ppb
Cadmium	106-1	25.48	22.50	24.87	24.28	6.50	ppb
Cadmium	108-1	25.92	26.33	24.16	25.47	4.52	ppb
Cadmium	111-1	26.42	25.58	25.62	25.87	1.85	ppb
Calcium	43-1	3448.92	3440.67	3474.73	3454.77	0.51	ppb
Calcium	44-1	3434.16	3461.40	3468.74	3454.77	0.53	ppb
Chromium	52-2	27.73	27.29	27.34	27.45	0.87	ppb
Cobalt	59-2	27.73	27.87	27.60	27.73	0.49	ppb
Copper	63-2	61.52	61.66	60.80	61.33	0.75	ppb
Dysprosium	156-2						cps
Dysprosium	156-1						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-2						cps
Gadolinium	160-1						cps
Holmium	165-2						%
Holmium	165-1						%
Indium	115-1						%
Indium	115-2						%
Iron	56-2	5627.90	5625.38	5597.43	5616.90	0.30	ppb
Iron	57-2	5476.14	5483.09	5428.27	5462.50	0.55	ppb
Lead	206-1	27.30	27.10	27.03	27.14	0.52	ppb
Lead	207-1	24.54	24.35	24.57	24.49	0.49	ppb
Lead	208-1	25.92	25.78	25.85	25.85	0.28	ppb
Lithium	6-1						%
Magnesium	24-2	2920.53	2891.45	2877.59	2896.52	0.76	ppb
Manganese	55-2	146.52	147.01	145.01	146.18	0.72	ppb

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2700-12DLX20	Instrumnet Name :	P7
Client Sample ID :	S8-0656MSDDL	Dilution Factor :	20
Date & Time Acquired ::	2017-04-18 16:47:45	DataFile Name :	064SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Molybdenum	94-1	32.72	32.73	32.57	32.68	0.28	ppb
Molybdenum	95-1	52.38	53.01	52.21	52.53	0.80	ppb
Molybdenum	96-1	46.97	47.08	47.16	47.07	0.20	ppb
Molybdenum	97-1	52.06	52.98	52.37	52.47	0.89	ppb
Molybdenum	98-1	51.89	52.17	52.29	52.12	0.39	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	29.11	28.42	28.65	28.73	1.21	ppb
Phosphorus	31-2	20.81	20.20	14.16	18.39	20.00	ppb
Potassium	39-2	1475.53	1478.06	1464.62	1472.74	0.48	ppb
Rhodium	103-2						%
Rhodium	103-1						%
Scandium	45-1						%
Scandium	45-2						%
Selenium	77-2	29.28	29.80	30.64	29.91	2.30	ppb
Selenium	78-2	28.35	24.94	26.75	26.68	6.39	ppb
Selenium	82-1	26.85	26.67	28.12	27.21	2.90	ppb
Silicon	28-1	399.29	403.92	399.94	401.05	0.62	ppb
Silver	109-1	12.50	12.06	12.13	12.23	1.94	ppb
Silver	107-1	12.29	12.18	12.18	12.22	0.53	ppb
Sodium	23-2	3236.40	3224.92	3220.18	3227.17	0.26	ppb
Strontium	86-1	27.86	28.17	28.39	28.14	0.93	ppb
Strontium	88-1	28.44	28.49	28.65	28.53	0.37	ppb
Sulfur	34-1	-1575.27	-1562.95	-1457.83	-1532.02		ppb
Terbium	159-1						%
Terbium	159-2						%
Thallium	203-1	24.76	24.86	24.71	24.78	0.31	ppb
Thallium	205-1	25.61	25.51	25.41	25.51	0.41	ppb
Tin	118-1	52.81	51.32	51.84	51.99	1.45	ppb
Titanium	47-1	51.66	51.22	52.13	51.67	0.88	ppb
Uranium	238-1	22.73	22.91	22.66	22.77	0.57	ppb
Vanadium	51-2	26.71	26.66	26.55	26.64	0.30	ppb
Yttrium	89-2						%
Yttrium	89-1						%
Zinc	66-2	61.07	60.25	59.22	60.18	1.54	ppb
Zirconium	90-1	24.12	24.26	24.31	24.23	0.41	ppb

Reviewed By:jaswal
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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2700-12DLX20	Instrumnet Name :	P7
Client Sample ID :	S8-0656MSDDL	Dilution Factor :	20
Date & Time Acquired ::	2017-04-18 16:47:45	DataFile Name :	064SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Zirconium	91-1	23.97	24.88	24.42	24.42	1.87	ppb

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2700-10A	Instrumnet Name :	P7
Client Sample ID :	S8-0656A	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 16:51:14	DataFile Name :	065SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	9607.20	9584.20	9621.62	9604.34	0.20	ppb
Antimony	121-1	515.62	513.99	517.82	515.81	0.37	ppb
Arsenic	75-2	788.57	793.45	792.09	791.37	0.32	ppb
Barium	135-1	2625.34	2574.49	2605.89	2601.90	0.99	ppb
Barium	137-1	2618.58	2569.92	2590.87	2593.13	0.94	ppb
Beryllium	9-1	464.35	465.49	460.99	463.61	0.50	ppb
Bismuth	209-2						%
Bismuth	209-1						%
Boron	10-1	969.24	993.93	990.20	984.45	1.35	ppb
Boron	11-1	956.68	965.65	959.41	960.58	0.48	ppb
Cadmium	108-1	489.74	491.22	487.43	489.46	0.39	ppb
Cadmium	111-1	491.06	481.93	484.70	485.89	0.96	ppb
Cadmium	106-1	477.49	477.51	478.67	477.89	0.14	ppb
Calcium	43-1	67048.65	68122.58	67395.42	67522.22	0.81	ppb
Calcium	44-1	67951.51	68477.88	68178.92	68202.77	0.39	ppb
Chromium	52-2	533.88	533.34	536.76	534.66	0.34	ppb
Cobalt	59-2	534.19	535.52	539.60	536.44	0.53	ppb
Copper	63-2	1216.98	1199.26	1215.48	1210.57	0.81	ppb
Dysprosium	156-2						cps
Dysprosium	156-1						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1						%
Holmium	165-2						%
Indium	115-2						%
Indium	115-1						%
Iron	56-2	107745.38	108032.75	109120.86	108299.67	0.67	ppb
Iron	57-2	108904.56	108875.36	108670.99	108816.97	0.12	ppb
Lead	207-1	478.46	479.60	477.84	478.63	0.19	ppb
Lead	208-1	509.17	512.02	509.84	510.34	0.29	ppb
Lead	206-1	525.61	526.43	530.36	527.47	0.48	ppb
Lithium	6-1						%
Magnesium	24-2	55659.56	55073.58	55383.12	55372.09	0.53	ppb
Manganese	55-2	2842.11	2863.49	2872.04	2859.21	0.54	ppb

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2700-10A	Instrumnet Name :	P7
Client Sample ID :	S8-0656A	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 16:51:14	DataFile Name :	065SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Molybdenum	94-1	659.83	657.10	658.73	658.55	0.21	ppb
Molybdenum	95-1	1057.63	1052.48	1058.03	1056.04	0.29	ppb
Molybdenum	96-1	964.90	961.92	956.01	960.94	0.47	ppb
Molybdenum	97-1	1042.70	1027.19	1034.50	1034.80	0.75	ppb
Molybdenum	98-1	1049.20	1047.25	1054.78	1050.41	0.37	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	547.06	549.09	552.99	549.71	0.55	ppb
Phosphorus	31-2	543.60	523.97	545.82	537.80	2.24	ppb
Potassium	39-2	28333.12	27861.14	28055.19	28083.15	0.84	ppb
Rhodium	103-2						%
Rhodium	103-1						%
Scandium	45-2						%
Scandium	45-1						%
Selenium	82-1	503.01	503.10	501.34	502.49	0.20	ppb
Selenium	77-2	488.30	499.22	501.42	496.31	1.42	ppb
Selenium	78-2	500.21	487.50	512.03	499.92	2.45	ppb
Silicon	28-1	7588.42	7706.19	7566.27	7620.29	0.99	ppb
Silver	107-1	229.13	228.23	229.91	229.09	0.37	ppb
Silver	109-1	230.14	228.27	231.29	229.90	0.66	ppb
Sodium	23-2	62243.59	61712.65	61854.10	61936.78	0.44	ppb
Strontium	86-1	548.39	545.18	547.17	546.91	0.30	ppb
Strontium	88-1	560.66	561.81	565.31	562.59	0.43	ppb
Sulfur	34-1	1400.02	1358.85	1339.99	1366.28	2.25	ppb
Terbium	159-2						%
Terbium	159-1						%
Thallium	203-1	503.85	504.96	506.16	504.99	0.23	ppb
Thallium	205-1	500.79	503.39	508.63	504.27	0.79	ppb
Tin	118-1	1007.88	1013.60	1010.16	1010.55	0.29	ppb
Titanium	47-1	1005.07	1010.78	1008.77	1008.21	0.29	ppb
Uranium	238-1	478.62	481.78	484.47	481.62	0.61	ppb
Vanadium	51-2	521.09	518.60	524.00	521.23	0.52	ppb
Yttrium	89-2						%
Yttrium	89-1						%
Zinc	66-2	1118.29	1116.44	1127.81	1120.85	0.54	ppb
Zirconium	90-1	489.30	488.20	488.76	488.75	0.11	ppb

Reviewed By:jaswal
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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2700-10A	Instrumnet Name :	P7
Client Sample ID :	S8-0656A	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 16:51:14	DataFile Name :	065SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Zirconium	91-1	476.12	477.43	480.65	478.07	0.49	ppb

Reviewed By:jaswal
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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2700-10ADLX20	Instrumnet Name :	P7
Client Sample ID :	S8-0656ADL	Dilution Factor :	20
Date & Time Acquired ::	2017-04-18 16:54:38	DataFile Name :	066SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	500.36	501.22	489.91	497.16	1.27	ppb
Antimony	121-1	25.72	25.60	25.43	25.58	0.57	ppb
Arsenic	75-2	39.50	40.23	40.27	40.00	1.09	ppb
Barium	135-1	126.80	128.52	126.98	127.43	0.74	ppb
Barium	137-1	127.79	128.86	127.55	128.06	0.55	ppb
Beryllium	9-1	25.14	25.33	25.05	25.17	0.56	ppb
Bismuth	209-1						%
Bismuth	209-2						%
Boron	10-1	77.88	76.06	77.45	77.13	1.24	ppb
Boron	11-1	76.92	76.24	75.79	76.32	0.75	ppb
Cadmium	106-1	23.10	23.81	21.83	22.91	4.38	ppb
Cadmium	108-1	25.20	25.68	25.31	25.40	0.98	ppb
Cadmium	111-1	25.05	25.42	25.07	25.18	0.83	ppb
Calcium	43-1	3324.53	3320.40	3334.32	3326.42	0.21	ppb
Calcium	44-1	3351.64	3329.23	3360.11	3346.99	0.48	ppb
Chromium	52-2	26.50	26.35	26.52	26.46	0.35	ppb
Cobalt	59-2	26.93	26.95	26.84	26.90	0.21	ppb
Copper	63-2	59.72	59.48	59.42	59.54	0.26	ppb
Dysprosium	156-2						cps
Dysprosium	156-1						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-2						cps
Gadolinium	160-1						cps
Holmium	165-1						%
Holmium	165-2						%
Indium	115-2						%
Indium	115-1						%
Iron	56-2	5468.48	5434.68	5480.56	5461.24	0.44	ppb
Iron	57-2	5325.65	5290.02	5311.12	5308.93	0.34	ppb
Lead	206-1	26.02	25.83	25.83	25.89	0.42	ppb
Lead	207-1	23.54	23.60	23.65	23.59	0.23	ppb
Lead	208-1	24.88	24.97	24.76	24.87	0.44	ppb
Lithium	6-1						%
Magnesium	24-2	2799.72	2804.62	2788.52	2797.62	0.30	ppb
Manganese	55-2	141.54	142.02	141.25	141.60	0.27	ppb

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2700-10ADLX20	Instrumnet Name :	P7
Client Sample ID :	S8-0656ADL	Dilution Factor :	20
Date & Time Acquired ::	2017-04-18 16:54:38	DataFile Name :	066SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Molybdenum	94-1	31.55	31.43	31.14	31.37	0.67	ppb
Molybdenum	95-1	49.89	50.08	50.15	50.04	0.27	ppb
Molybdenum	96-1	45.30	44.81	45.19	45.10	0.57	ppb
Molybdenum	97-1	50.95	50.46	50.04	50.49	0.90	ppb
Molybdenum	98-1	50.44	49.43	49.30	49.72	1.26	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	27.63	27.90	28.03	27.85	0.73	ppb
Phosphorus	31-2	16.50	27.59	38.02	27.37	39.32	ppb
Potassium	39-2	1409.75	1404.52	1403.32	1405.86	0.24	ppb
Rhodium	103-2						%
Rhodium	103-1						%
Scandium	45-1						%
Scandium	45-2						%
Selenium	77-2	30.88	25.34	23.91	26.71	13.79	ppb
Selenium	78-2	26.29	27.98	26.96	27.08	3.14	ppb
Selenium	82-1	28.46	25.13	25.77	26.45	6.69	ppb
Silicon	28-1	390.26	385.60	388.77	388.21	0.61	ppb
Silver	109-1	11.94	11.98	11.92	11.95	0.27	ppb
Silver	107-1	11.68	11.94	11.69	11.77	1.27	ppb
Sodium	23-2	3113.03	3113.15	3112.72	3112.97	0.01	ppb
Strontium	86-1	27.28	26.88	27.48	27.21	1.13	ppb
Strontium	88-1	27.66	27.54	27.59	27.60	0.23	ppb
Sulfur	34-1	-1286.88	-1190.10	-1180.47	-1219.15		ppb
Terbium	159-1						%
Terbium	159-2						%
Thallium	203-1	23.92	23.79	23.61	23.77	0.65	ppb
Thallium	205-1	24.46	24.24	24.30	24.33	0.46	ppb
Tin	118-1	50.34	49.81	50.03	50.06	0.54	ppb
Titanium	47-1	50.58	49.16	50.22	49.99	1.48	ppb
Uranium	238-1	21.92	22.21	21.82	21.98	0.92	ppb
Vanadium	51-2	25.86	25.87	25.42	25.72	1.00	ppb
Yttrium	89-2						%
Yttrium	89-1						%
Zinc	66-2	57.98	58.59	59.11	58.56	0.97	ppb
Zirconium	90-1	23.43	23.01	23.06	23.17	1.00	ppb

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2700-10ADLX20	Instrumnet Name :	P7
Client Sample ID :	S8-0656ADL	Dilution Factor :	20
Date & Time Acquired ::	2017-04-18 16:54:38	DataFile Name :	066SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Zirconium	91-1	23.55	23.21	23.39	23.38	0.73	ppb

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2700-10LX5	Instrumnet Name :	P7
Client Sample ID :	S8-0656L	Dilution Factor :	5
Date & Time Acquired ::	2017-04-18 16:58:07	DataFile Name :	067SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	7.08	7.41	6.51	7.00	6.54	ppb
Antimony	121-1	0.06	0.05	0.04	0.05	23.51	ppb
Arsenic	75-2	52.15	51.96	52.42	52.18	0.44	ppb
Barium	135-1	3.71	3.64	3.48	3.61	3.28	ppb
Barium	137-1	3.47	3.45	3.47	3.46	0.38	ppb
Beryllium	9-1	0.05	0.05	0.07	0.06	23.09	ppb
Bismuth	209-2						%
Bismuth	209-1						%
Boron	10-1	24.34	22.93	22.74	23.34	3.74	ppb
Boron	11-1	23.66	23.46	23.33	23.48	0.71	ppb
Cadmium	111-1	-0.01	-0.01	-0.01	-0.01		ppb
Cadmium	106-1	-0.88	-1.08	-1.13	-1.03		ppb
Cadmium	108-1	0.02	0.01	0.01	0.01	54.66	ppb
Calcium	43-1	2827.11	2838.48	2820.19	2828.59	0.33	ppb
Calcium	44-1	2837.84	2827.30	2801.53	2822.22	0.66	ppb
Chromium	52-2	0.14	0.13	0.15	0.14	5.81	ppb
Cobalt	59-2	0.62	0.66	0.64	0.64	2.81	ppb
Copper	63-2	6.69	6.68	6.75	6.71	0.59	ppb
Dysprosium	156-2						cps
Dysprosium	156-1						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-2						cps
Gadolinium	160-1						cps
Holmium	165-1						%
Holmium	165-2						%
Indium	115-2						%
Indium	115-1						%
Iron	56-2	14791.23	14726.03	14699.61	14738.96	0.32	ppb
Iron	57-2	14376.18	14469.95	14573.50	14473.21	0.68	ppb
Lead	206-1	0.60	0.58	0.58	0.59	2.87	ppb
Lead	207-1	0.57	0.53	0.54	0.55	4.06	ppb
Lead	208-1	0.58	0.55	0.57	0.56	2.31	ppb
Lithium	6-1						%
Magnesium	24-2	704.78	712.00	709.43	708.73	0.52	ppb
Manganese	55-2	320.85	320.38	323.10	321.44	0.45	ppb

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2700-10LX5	Instrumnet Name :	P7
Client Sample ID :	S8-0656L	Dilution Factor :	5
Date & Time Acquired ::	2017-04-18 16:58:07	DataFile Name :	067SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Molybdenum	94-1	0.17	0.18	0.20	0.19	9.53	ppb
Molybdenum	95-1	0.31	0.49	0.53	0.45	26.15	ppb
Molybdenum	96-1	0.29	0.39	0.49	0.39	25.24	ppb
Molybdenum	97-1	0.31	0.41	0.51	0.41	23.37	ppb
Molybdenum	98-1	0.33	0.44	0.52	0.43	22.02	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.55	0.52	0.53	0.53	2.76	ppb
Phosphorus	31-2	104.41	80.96	65.26	83.54	23.59	ppb
Potassium	39-2	623.42	626.52	625.49	625.15	0.25	ppb
Rhodium	103-2						%
Rhodium	103-1						%
Scandium	45-1						%
Scandium	45-2						%
Selenium	77-2	0.28	0.28	1.13	0.56	87.37	ppb
Selenium	78-2	-0.27	0.43	0.52	0.23	189.40	ppb
Selenium	82-1	-0.70	-0.52	-0.72	-0.65		ppb
Silicon	28-1	1289.51	1300.48	1270.47	1286.82	1.18	ppb
Silver	109-1	0.08	0.06	0.07	0.07	9.29	ppb
Silver	107-1	0.07	0.07	0.07	0.07	4.28	ppb
Sodium	23-2	1891.59	1898.54	1899.76	1896.63	0.23	ppb
Strontium	86-1	21.11	21.30	21.57	21.33	1.06	ppb
Strontium	88-1	21.63	21.79	21.73	21.72	0.36	ppb
Sulfur	34-1	-651.99	-638.05	-734.03	-674.69		ppb
Terbium	159-1						%
Terbium	159-2						%
Thallium	203-1	0.05	0.04	0.04	0.04	14.00	ppb
Thallium	205-1	0.04	0.04	0.06	0.05	16.29	ppb
Tin	118-1	0.13	0.13	0.15	0.14	8.77	ppb
Titanium	47-1	0.50	0.57	0.56	0.55	7.14	ppb
Uranium	238-1	0.01	0.01	0.01	0.01	27.95	ppb
Vanadium	51-2	0.08	0.07	0.09	0.08	11.34	ppb
Yttrium	89-2						%
Yttrium	89-1						%
Zinc	66-2	5.53	5.59	5.48	5.53	1.00	ppb
Zirconium	90-1	0.07	0.07	0.10	0.08	18.54	ppb

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2700-10LX5	Instrumnet Name :	P7
Client Sample ID :	S8-0656L	Dilution Factor :	5
Date & Time Acquired ::	2017-04-18 16:58:07	DataFile Name :	067SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Zirconium	91-1	0.08	0.09	0.10	0.09	13.06	ppb

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2700-10LDLX100	Instrumnet Name :	P7
Client Sample ID :	S8-0656LDL	Dilution Factor :	100
Date & Time Acquired ::	2017-04-18 17:01:36	DataFile Name :	068SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	0.98	1.05	0.60	0.87	27.74	ppb
Antimony	121-1	-0.01	-0.01	0.00	-0.01		ppb
Arsenic	75-2	2.71	2.80	2.69	2.74	2.09	ppb
Barium	135-1	0.20	0.21	0.18	0.20	9.01	ppb
Barium	137-1	0.17	0.14	0.20	0.17	15.42	ppb
Beryllium	9-1	0.02	0.02	0.04	0.03	29.18	ppb
Bismuth	209-1						%
Bismuth	209-2						%
Boron	10-1	9.52	8.87	9.42	9.27	3.74	ppb
Boron	11-1	8.85	8.93	8.50	8.76	2.62	ppb
Cadmium	111-1	-0.01	-0.03	-0.02	-0.02		ppb
Cadmium	106-1	-0.99	-1.33	-0.93	-1.08		ppb
Cadmium	108-1	-0.06	0.00	-0.03	-0.03		ppb
Calcium	43-1	142.75	147.30	145.11	145.05	1.57	ppb
Calcium	44-1	135.61	135.18	136.55	135.78	0.52	ppb
Chromium	52-2	0.01	0.03	0.01	0.02	56.87	ppb
Cobalt	59-2	0.03	0.03	0.02	0.03	8.37	ppb
Copper	63-2	0.86	0.94	0.86	0.88	5.24	ppb
Dysprosium	156-2						cps
Dysprosium	156-1						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-2						cps
Gadolinium	160-1						cps
Holmium	165-1						%
Holmium	165-2						%
Indium	115-2						%
Indium	115-1						%
Iron	56-2	715.05	726.45	715.47	718.99	0.90	ppb
Iron	57-2	715.51	737.66	717.44	723.54	1.70	ppb
Lead	206-1	0.03	0.02	0.03	0.03	16.47	ppb
Lead	207-1	0.03	0.02	0.02	0.02	31.10	ppb
Lead	208-1	0.03	0.02	0.03	0.03	20.88	ppb
Lithium	6-1						%
Magnesium	24-2	37.05	36.49	35.82	36.45	1.68	ppb
Manganese	55-2	16.20	16.13	15.90	16.08	1.00	ppb

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On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2700-10LDLX100	Instrumnet Name :	P7
Client Sample ID :	S8-0656LDL	Dilution Factor :	100
Date & Time Acquired ::	2017-04-18 17:01:36	DataFile Name :	068SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Molybdenum	94-1	0.03	0.04	0.06	0.04	31.11	ppb
Molybdenum	95-1	0.08	0.13	0.20	0.13	46.88	ppb
Molybdenum	96-1	0.07	0.12	0.15	0.11	36.91	ppb
Molybdenum	97-1	0.06	0.14	0.18	0.13	47.93	ppb
Molybdenum	98-1	0.10	0.15	0.16	0.14	22.57	ppb
Neodymium	150-2						cps
Neodymium	150-1						cps
Nickel	60-2	0.04	0.00	-0.01	0.01	213.05	ppb
Phosphorus	31-2	7.58	-3.12	1.73	2.06	259.38	ppb
Potassium	39-2	34.63	37.98	30.37	34.33	11.11	ppb
Rhodium	103-1						%
Rhodium	103-2						%
Scandium	45-2						%
Scandium	45-1						%
Selenium	82-1	0.07	-0.55	0.54	0.02	2400.65	ppb
Selenium	77-2	0.00	0.28	0.00	0.09	173.21	ppb
Selenium	78-2	0.39	0.31	0.04	0.25	74.12	ppb
Silicon	28-1	77.91	76.23	77.93	77.36	1.26	ppb
Silver	109-1	0.03	0.03	0.04	0.03	21.24	ppb
Silver	107-1	0.03	0.03	0.03	0.03	7.15	ppb
Sodium	23-2	105.26	104.65	105.84	105.25	0.56	ppb
Strontium	86-1	0.90	1.04	0.96	0.97	7.28	ppb
Strontium	88-1	1.11	1.14	1.09	1.11	2.12	ppb
Sulfur	34-1	-1003.87	-1043.15	-897.07	-981.36		ppb
Terbium	159-1						%
Terbium	159-2						%
Thallium	203-1	0.01	0.01	0.01	0.01	23.85	ppb
Thallium	205-1	0.01	0.02	0.01	0.01	8.76	ppb
Tin	118-1	0.02	0.04	0.04	0.03	32.28	ppb
Titanium	47-1	0.02	0.01	0.09	0.04	104.62	ppb
Uranium	238-1	0.00	0.00	0.00	0.00		ppb
Vanadium	51-2	0.00	0.01	0.01	0.01	23.68	ppb
Yttrium	89-2						%
Yttrium	89-1						%
Zinc	66-2	0.45	0.57	0.63	0.55	16.67	ppb
Zirconium	90-1	0.00	0.01	0.02	0.01	51.84	ppb

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2700-10LDLX100	Instrumnet Name :	P7
Client Sample ID :	S8-0656LDL	Dilution Factor :	100
Date & Time Acquired ::	2017-04-18 17:01:36	DataFile Name :	068SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Zirconium	91-1	0.00	0.01	0.01	0.00	184.88	ppb

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On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2745-01	Instrumnet Name :	P7
Client Sample ID :	D1K1-GW-MW-01	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 17:05:06	DataFile Name :	069SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	44.93	24.75	21.80	30.50	41.27	ppb
Antimony	121-1	0.82	0.75	0.81	0.79	4.64	ppb
Arsenic	75-2	79.65	80.08	79.81	79.84	0.27	ppb
Barium	135-1	74.63	73.40	74.77	74.27	1.01	ppb
Barium	137-1	74.98	74.24	74.06	74.43	0.66	ppb
Beryllium	9-1	0.04	0.01	0.04	0.03	55.51	ppb
Bismuth	209-1						%
Bismuth	209-2						%
Boron	10-1	42.37	42.29	42.12	42.26	0.30	ppb
Boron	11-1	41.19	41.64	41.37	41.40	0.55	ppb
Cadmium	106-1	1.02	2.42	0.22	1.22	91.21	ppb
Cadmium	108-1	3.71	3.59	3.55	3.62	2.29	ppb
Cadmium	111-1	4.01	3.94	4.03	3.99	1.19	ppb
Calcium	43-1	100591.46	98628.75	102251.68	100490.63	1.80	ppb
Calcium	44-1	101460.43	100520.71	99914.22	100631.79	0.77	ppb
Chromium	52-2	1.28	1.20	1.24	1.24	3.15	ppb
Cobalt	59-2	0.32	0.32	0.31	0.32	2.04	ppb
Copper	63-2	8.63	8.77	8.73	8.71	0.83	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-2						cps
Erbium	164-1						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-2						%
Holmium	165-1						%
Indium	115-1						%
Indium	115-2						%
Iron	56-2	135.89	135.05	133.17	134.70	1.03	ppb
Iron	57-2	146.58	145.61	146.71	146.30	0.41	ppb
Lead	206-1	2.47	2.51	2.58	2.52	2.18	ppb
Lead	207-1	2.22	2.21	2.28	2.23	1.58	ppb
Lead	208-1	2.37	2.39	2.40	2.38	0.59	ppb
Lithium	6-1						%
Magnesium	24-2	68243.87	67998.75	67644.20	67962.27	0.44	ppb
Manganese	55-2	253.23	252.79	251.35	252.46	0.39	ppb

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2745-01	Instrumnet Name :	P7
Client Sample ID :	D1K1-GW-MW-01	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 17:05:06	DataFile Name :	069SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Molybdenum	94-1	1.14	1.14	1.15	1.14	0.67	ppb
Molybdenum	95-1	2.68	2.70	2.71	2.70	0.62	ppb
Molybdenum	96-1	2.25	2.31	2.29	2.28	1.29	ppb
Molybdenum	97-1	2.62	2.71	2.70	2.68	1.71	ppb
Molybdenum	98-1	2.62	2.75	2.75	2.70	2.84	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	2.10	2.06	2.06	2.08	1.09	ppb
Phosphorus	31-2	12.89	-1.54	13.65	8.33	102.73	ppb
Potassium	39-2	647.14	661.04	656.11	654.76	1.08	ppb
Rhodium	103-2						%
Rhodium	103-1						%
Scandium	45-1						%
Scandium	45-2						%
Selenium	77-2	1.58	4.10	2.53	2.74	46.46	ppb
Selenium	78-2	-0.40	1.00	0.80	0.47	162.64	ppb
Selenium	82-1	-0.13	0.10	-0.59	-0.21		ppb
Silicon	28-1	8103.71	7836.38	7787.18	7909.09	2.15	ppb
Silver	107-1	0.31	0.32	0.32	0.32	2.31	ppb
Silver	109-1	0.33	0.34	0.30	0.32	6.95	ppb
Sodium	23-2	20979.69	20723.16	20816.80	20839.88	0.62	ppb
Strontium	86-1	1421.23	1406.48	1395.28	1407.67	0.92	ppb
Strontium	88-1	1408.06	1403.29	1390.22	1400.52	0.66	ppb
Sulfur	34-1	18049.13	17078.05	17286.22	17471.13	2.93	ppb
Terbium	159-1						%
Terbium	159-2						%
Thallium	203-1	0.02	0.02	0.01	0.02	24.88	ppb
Thallium	205-1	0.02	0.02	0.02	0.02	8.12	ppb
Tin	118-1	1.24	1.17	1.17	1.19	3.21	ppb
Titanium	47-1	1.38	1.21	1.26	1.28	6.86	ppb
Uranium	238-1	3.50	3.50	3.56	3.52	1.04	ppb
Vanadium	51-2	0.68	0.67	0.75	0.70	6.41	ppb
Yttrium	89-2						%
Yttrium	89-1						%
Zinc	66-2	12.74	13.51	12.80	13.02	3.28	ppb
Zirconium	90-1	0.37	0.39	0.41	0.39	4.99	ppb

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LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2745-01	Instrumnet Name :	P7
Client Sample ID :	D1K1-GW-MW-01	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 17:05:06	DataFile Name :	069SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Zirconium	91-1	0.44	0.45	0.48	0.45	4.54	ppb

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	CCV68	Instrumnet Name :	P7
Client Sample ID :	CCV68	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 17:08:35	DataFile Name :	070CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	9444.73	9389.76	9444.99	9426.49	0.34	ppb
Antimony	121-1	499.69	490.81	489.77	493.42	1.11	ppb
Arsenic	75-2	502.33	500.54	503.87	502.25	0.33	ppb
Barium	135-1	2535.93	2509.38	2539.03	2528.11	0.64	ppb
Barium	137-1	2555.08	2514.18	2536.46	2535.24	0.81	ppb
Beryllium	9-1	502.10	498.48	501.88	500.82	0.41	ppb
Bismuth	209-1						%
Bismuth	209-2						%
Boron	10-1	483.98	486.82	488.57	486.45	0.48	ppb
Boron	11-1	480.78	483.05	491.54	485.13	1.17	ppb
Cadmium	111-1	504.86	498.66	501.38	501.63	0.62	ppb
Cadmium	106-1	497.86	499.27	501.08	499.40	0.32	ppb
Cadmium	108-1	501.85	497.19	506.63	501.89	0.94	ppb
Calcium	43-1	47807.73	48259.72	48042.67	48036.71	0.47	ppb
Calcium	44-1	48293.66	49551.52	48854.08	48899.76	1.29	ppb
Chromium	52-2	510.65	507.39	506.75	508.26	0.41	ppb
Cobalt	59-2	511.42	509.82	505.44	508.89	0.61	ppb
Copper	63-2	1074.58	1077.66	1050.62	1067.62	1.39	ppb
Dysprosium	156-2						cps
Dysprosium	156-1						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-2						cps
Gadolinium	160-1						cps
Holmium	165-1						%
Holmium	165-2						%
Indium	115-2						%
Indium	115-1						%
Iron	56-2	26013.81	25696.87	25894.11	25868.26	0.62	ppb
Iron	57-2	25319.95	25266.16	25168.34	25251.49	0.30	ppb
Lead	206-1	495.36	482.72	492.76	490.28	1.36	ppb
Lead	207-1	487.00	478.98	487.10	484.36	0.96	ppb
Lead	208-1	496.56	488.87	496.50	493.98	0.89	ppb
Lithium	6-1						%
Magnesium	24-2	49829.03	49399.05	50000.31	49742.80	0.62	ppb
Manganese	55-2	1018.78	1011.14	1015.64	1015.18	0.38	ppb

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	CCV68	Instrumnet Name :	P7
Client Sample ID :	CCV68	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 17:08:35	DataFile Name :	070CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Molybdenum	94-1	500.47	501.57	501.40	501.15	0.12	ppb
Molybdenum	95-1	491.56	491.24	491.95	491.58	0.07	ppb
Molybdenum	96-1	486.98	488.74	487.22	487.65	0.20	ppb
Molybdenum	97-1	491.26	491.12	492.75	491.71	0.18	ppb
Molybdenum	98-1	497.24	508.10	499.91	501.75	1.13	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	518.11	521.02	521.10	520.08	0.33	ppb
Phosphorus	31-2	9886.07	9993.82	10082.08	9987.32	0.98	ppb
Potassium	39-2	24305.24	23868.57	24156.94	24110.25	0.92	ppb
Rhodium	103-1						%
Rhodium	103-2						%
Scandium	45-2						%
Scandium	45-1						%
Selenium	82-1	501.27	499.15	500.06	500.16	0.21	ppb
Selenium	77-2	499.46	492.72	489.42	493.87	1.04	ppb
Selenium	78-2	500.35	498.68	504.16	501.07	0.56	ppb
Silicon	28-1	466.72	482.15	474.60	474.49	1.63	ppb
Silver	109-1	516.13	505.95	512.95	511.68	1.02	ppb
Silver	107-1	515.29	512.30	515.51	514.37	0.35	ppb
Sodium	23-2	50240.01	49628.24	50200.93	50023.06	0.68	ppb
Strontium	86-1	491.85	494.35	493.16	493.12	0.25	ppb
Strontium	88-1	508.44	504.58	507.19	506.74	0.39	ppb
Sulfur	34-1	9440.25	9537.35	9198.00	9391.87	1.86	ppb
Terbium	159-1						%
Terbium	159-2						%
Thallium	203-1	505.74	497.50	512.60	505.28	1.50	ppb
Thallium	205-1	507.15	497.78	501.21	502.04	0.94	ppb
Tin	118-1	504.38	504.73	509.48	506.20	0.56	ppb
Titanium	47-1	493.35	497.84	493.35	494.84	0.52	ppb
Uranium	238-1	487.10	485.55	489.82	487.49	0.44	ppb
Vanadium	51-2	511.34	511.22	509.26	510.61	0.23	ppb
Yttrium	89-2						%
Yttrium	89-1						%
Zinc	66-2	1040.12	1043.06	1031.42	1038.20	0.58	ppb
Zirconium	91-1	489.01	492.43	488.93	490.13	0.41	ppb

Reviewed By:jaswal
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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	CCV68	Instrumnet Name :	P7
Client Sample ID :	CCV68	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 17:08:35	DataFile Name :	070CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Zirconium	90-1	498.04	506.23	502.53	502.27	0.82	ppb

Reviewed By:jaswal
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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	CCB68	Instrumnet Name :	P7
Client Sample ID :	CCB68	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 17:16:10	DataFile Name :	071CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	0.16	0.22	0.17	0.19	16.27	ppb
Antimony	121-1	0.67	0.86	1.14	0.89	26.22	ppb
Arsenic	75-2	0.15	0.15	0.12	0.14	11.41	ppb
Barium	135-1	0.00	0.02	-0.01	0.01	284.28	ppb
Barium	137-1	0.01	0.00	0.01	0.01	158.11	ppb
Beryllium	9-1	0.01	0.03	0.02	0.02	47.34	ppb
Bismuth	209-1						%
Bismuth	209-2						%
Boron	10-1	6.08	6.15	5.31	5.85	7.96	ppb
Boron	11-1	6.02	6.32	6.12	6.15	2.54	ppb
Cadmium	106-1	-1.73	-1.81	-0.98	-1.51		ppb
Cadmium	108-1	-0.02	-0.02	-0.02	-0.02		ppb
Cadmium	111-1	-0.04	-0.03	-0.02	-0.03		ppb
Calcium	43-1	0.75	-1.35	-1.28	-0.63		ppb
Calcium	44-1	-8.35	-8.33	-8.70	-8.46		ppb
Chromium	52-2	0.00	-0.01	0.03	0.00	452.17	ppb
Cobalt	59-2	0.00	0.00	-0.01	0.00		ppb
Copper	63-2	0.49	0.45	0.46	0.47	4.50	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-2						cps
Erbium	164-1						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-2						%
Holmium	165-1						%
Indium	115-1						%
Indium	115-2						%
Iron	56-2	0.58	0.72	0.71	0.67	11.86	ppb
Iron	57-2	0.13	0.45	0.21	0.26	62.22	ppb
Lead	206-1	0.02	0.01	0.02	0.02	36.93	ppb
Lead	207-1	0.01	0.03	0.02	0.02	49.74	ppb
Lead	208-1	0.01	0.02	0.01	0.01	21.31	ppb
Lithium	6-1						%
Magnesium	24-2	0.32	0.33	0.60	0.42	37.64	ppb
Manganese	55-2	0.01	0.02	0.02	0.02	47.38	ppb

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	CCB68	Instrumnet Name :	P7
Client Sample ID :	CCB68	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 17:16:10	DataFile Name :	071CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Molybdenum	96-1	0.10	0.17	0.23	0.17	37.71	ppb
Molybdenum	94-1	0.05	0.06	0.11	0.07	39.05	ppb
Molybdenum	95-1	0.17	0.20	0.30	0.23	30.32	ppb
Molybdenum	97-1	0.16	0.24	0.33	0.24	34.83	ppb
Molybdenum	98-1	0.14	0.21	0.31	0.22	37.14	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.02	0.00	-0.03	-0.02		ppb
Phosphorus	31-2	-10.70	-1.19	-13.78	-8.56		ppb
Potassium	39-2	2.89	5.71	5.18	4.59	32.66	ppb
Rhodium	103-2						%
Rhodium	103-1						%
Scandium	45-1						%
Scandium	45-2						%
Selenium	77-2	0.82	0.00	0.28	0.37	114.12	ppb
Selenium	78-2	0.20	0.32	0.01	0.18	86.94	ppb
Selenium	82-1	-0.83	0.03	0.83	0.01	7086.84	ppb
Silicon	28-1	-4.17	-3.64	-3.51	-3.77		ppb
Silver	107-1	0.03	0.04	0.03	0.03	9.21	ppb
Silver	109-1	0.03	0.03	0.03	0.03	13.24	ppb
Sodium	23-2	6.84	6.85	6.46	6.72	3.30	ppb
Strontium	86-1	-0.04	0.02	0.00	-0.01		ppb
Strontium	88-1	0.01	0.01	0.01	0.01	27.28	ppb
Sulfur	34-1	-963.50	-863.19	-746.55	-857.74		ppb
Terbium	159-1						%
Terbium	159-2						%
Thallium	203-1	0.01	0.01	0.00	0.01	34.40	ppb
Thallium	205-1	0.01	0.01	0.01	0.01	21.96	ppb
Tin	118-1	0.05	0.08	0.10	0.08	30.19	ppb
Titanium	47-1	-0.02	-0.03	0.00	-0.02		ppb
Uranium	238-1	0.00	0.00	0.00	0.00		ppb
Vanadium	51-2	0.00	0.00	0.00	0.00	47.72	ppb
Yttrium	89-2						%
Yttrium	89-1						%
Zinc	66-2	0.14	0.12	0.12	0.12	8.03	ppb
Zirconium	90-1	0.01	0.01	0.02	0.01	68.27	ppb

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	CCB68	Instrumnet Name :	P7
Client Sample ID :	CCB68	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 17:16:10	DataFile Name :	071CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Zirconium	91-1	0.01	0.02	0.03	0.02	73.07	ppb

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2745-02	Instrumnet Name :	P7
Client Sample ID :	D1K1-GW-MW-02	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 17:19:40	DataFile Name :	072SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1723.58	1791.08	1731.59	1748.75	2.11	ppb
Antimony	121-1	7.79	7.76	8.32	7.96	3.96	ppb
Arsenic	75-2	578.16	571.70	575.36	575.07	0.56	ppb
Barium	135-1	38.21	37.33	38.83	38.12	1.97	ppb
Barium	137-1	39.26	38.22	39.17	38.88	1.48	ppb
Beryllium	9-1	0.10	0.10	0.08	0.10	12.22	ppb
Bismuth	209-1						%
Bismuth	209-2						%
Boron	10-1	79.15	83.63	82.68	81.82	2.88	ppb
Boron	11-1	79.92	80.51	80.02	80.15	0.39	ppb
Cadmium	111-1	0.73	0.77	0.75	0.75	2.31	ppb
Cadmium	106-1	-1.02	-1.59	-2.16	-1.59		ppb
Cadmium	108-1	1.29	0.82	1.01	1.04	22.90	ppb
Calcium	43-1	342919.83	343212.83	339078.59	341737.08	0.68	ppb
Calcium	44-1	342444.18	341345.84	338555.62	340781.88	0.59	ppb
Chromium	52-2	3.08	3.21	3.18	3.16	2.19	ppb
Cobalt	59-2	4.13	4.16	4.19	4.16	0.70	ppb
Copper	63-2	28.02	27.70	28.21	27.97	0.92	ppb
Dysprosium	156-2						cps
Dysprosium	156-1						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-2						cps
Gadolinium	160-1						cps
Holmium	165-2						%
Holmium	165-1						%
Indium	115-1						%
Indium	115-2						%
Iron	56-2	3739.38	3732.31	3717.93	3729.87	0.29	ppb
Iron	57-2	3765.59	3669.19	3699.03	3711.27	1.33	ppb
Lead	206-1	56.42	56.06	56.64	56.38	0.52	ppb
Lead	207-1	47.74	47.40	47.95	47.69	0.58	ppb
Lead	208-1	51.59	51.12	52.01	51.57	0.86	ppb
Lithium	6-1						%
Magnesium	24-2	56611.09	56176.29	56280.16	56355.85	0.40	ppb
Manganese	55-2	489.10	490.78	490.36	490.08	0.18	ppb

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2745-02	Instrumnet Name :	P7
Client Sample ID :	D1K1-GW-MW-02	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 17:19:40	DataFile Name :	072SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Molybdenum	94-1	2.39	2.48	2.36	2.41	2.43	ppb
Molybdenum	95-1	4.34	4.40	4.35	4.36	0.69	ppb
Molybdenum	96-1	3.84	3.78	3.99	3.87	2.85	ppb
Molybdenum	97-1	4.36	4.35	4.53	4.41	2.30	ppb
Molybdenum	98-1	4.21	4.31	4.22	4.25	1.26	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	6.94	6.74	6.95	6.87	1.70	ppb
Phosphorus	31-2	770.05	780.28	759.41	769.91	1.36	ppb
Potassium	39-2	3289.68	3293.63	3278.15	3287.15	0.24	ppb
Rhodium	103-1						%
Rhodium	103-2						%
Scandium	45-2						%
Scandium	45-1						%
Selenium	77-2	4.33	5.59	8.27	6.06	33.12	ppb
Selenium	78-2	2.11	2.32	0.98	1.80	40.16	ppb
Selenium	82-1	0.25	-0.51	-0.02	-0.10		ppb
Silicon	28-1	11191.76	11282.30	10980.97	11151.68	1.39	ppb
Silver	109-1	0.40	0.39	0.37	0.39	3.95	ppb
Silver	107-1	0.39	0.36	0.35	0.37	5.12	ppb
Sodium	23-2	26535.33	26446.70	26520.15	26500.73	0.18	ppb
Strontium	86-1	1138.65	1140.98	1137.88	1139.17	0.14	ppb
Strontium	88-1	1147.08	1131.18	1151.55	1143.27	0.94	ppb
Sulfur	34-1	168429.55	170471.01	166593.86	168498.14	1.15	ppb
Terbium	159-1						%
Terbium	159-2						%
Thallium	205-1	0.10	0.11	0.11	0.11	1.74	ppb
Thallium	203-1	0.09	0.11	0.09	0.10	14.28	ppb
Tin	118-1	2.20	2.16	2.25	2.20	2.03	ppb
Titanium	47-1	48.59	49.76	52.39	50.25	3.88	ppb
Uranium	238-1	3.09	3.12	3.15	3.12	1.01	ppb
Vanadium	51-2	6.17	6.05	6.10	6.11	0.97	ppb
Yttrium	89-1						%
Yttrium	89-2						%
Zinc	66-2	282.11	276.98	283.28	280.79	1.19	ppb
Zirconium	90-1	1.64	2.70	2.15	2.16	24.50	ppb

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LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2745-02	Instrumnet Name :	P7
Client Sample ID :	D1K1-GW-MW-02	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 17:19:40	DataFile Name :	072SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Zirconium	91-1	1.70	1.79	2.17	1.89	13.28	ppb

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2745-03	Instrumnet Name :	P7
Client Sample ID :	D1K1-GW-MW-10	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 17:23:12	DataFile Name :	073SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	41.70	34.82	28.39	34.97	19.03	ppb
Antimony	121-1	1.10	1.17	1.26	1.18	6.84	ppb
Arsenic	75-2	79.43	78.87	79.78	79.36	0.58	ppb
Barium	135-1	74.72	72.50	72.46	73.23	1.76	ppb
Barium	137-1	74.99	72.96	72.96	73.64	1.59	ppb
Beryllium	9-1	0.04	0.02	0.03	0.03	19.49	ppb
Bismuth	209-1						%
Bismuth	209-2						%
Boron	10-1	40.49	42.08	40.15	40.91	2.52	ppb
Boron	11-1	38.71	40.60	40.05	39.79	2.45	ppb
Cadmium	106-1	-1.49	-1.43	-0.79	-1.23		ppb
Cadmium	108-1	1.22	1.33	1.39	1.31	6.61	ppb
Cadmium	111-1	1.68	1.62	1.71	1.67	2.71	ppb
Calcium	43-1	96691.72	97639.45	97761.62	97364.26	0.60	ppb
Calcium	44-1	97477.55	98808.02	98531.19	98272.25	0.71	ppb
Chromium	52-2	0.34	0.34	0.37	0.35	4.24	ppb
Cobalt	59-2	0.35	0.34	0.35	0.34	1.79	ppb
Copper	63-2	9.78	9.97	10.04	9.93	1.37	ppb
Dysprosium	156-2						cps
Dysprosium	156-1						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-2						cps
Gadolinium	160-1						cps
Holmium	165-1						%
Holmium	165-2						%
Indium	115-2						%
Indium	115-1						%
Iron	56-2	165.85	167.77	168.25	167.29	0.76	ppb
Iron	57-2	179.23	182.22	185.21	182.22	1.64	ppb
Lead	206-1	2.62	2.61	2.63	2.62	0.49	ppb
Lead	207-1	2.29	2.26	2.35	2.30	2.06	ppb
Lead	208-1	2.46	2.44	2.49	2.46	0.88	ppb
Lithium	6-1						%
Magnesium	24-2	66361.81	66180.51	66330.28	66290.87	0.15	ppb
Manganese	55-2	241.27	240.39	241.81	241.16	0.30	ppb

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2745-03	Instrumnet Name :	P7
Client Sample ID :	D1K1-GW-MW-10	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 17:23:12	DataFile Name :	073SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Molybdenum	94-1	0.99	0.98	1.03	1.00	2.62	ppb
Molybdenum	95-1	2.63	2.73	2.77	2.71	2.76	ppb
Molybdenum	96-1	2.34	2.23	2.33	2.30	2.73	ppb
Molybdenum	97-1	2.72	2.77	2.82	2.77	1.82	ppb
Molybdenum	98-1	2.71	2.63	2.71	2.69	1.70	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	1.93	1.92	2.00	1.95	2.18	ppb
Phosphorus	31-2	5.46	9.55	11.44	8.82	34.65	ppb
Potassium	39-2	648.98	640.31	647.45	645.58	0.72	ppb
Rhodium	103-1						%
Rhodium	103-2						%
Scandium	45-1						%
Scandium	45-2						%
Selenium	82-1	-0.18	0.12	0.38	0.11	255.05	ppb
Selenium	77-2	2.50	3.72	3.09	3.10	19.55	ppb
Selenium	78-2	0.60	0.21	0.25	0.35	61.25	ppb
Silicon	28-1	7644.52	7767.46	7687.57	7699.85	0.81	ppb
Silver	109-1	0.26	0.26	0.24	0.25	4.30	ppb
Silver	107-1	0.26	0.25	0.26	0.26	3.37	ppb
Sodium	23-2	20422.52	20205.59	20320.87	20316.33	0.53	ppb
Strontium	86-1	1394.95	1376.87	1385.95	1385.93	0.65	ppb
Strontium	88-1	1408.16	1372.89	1379.65	1386.90	1.35	ppb
Sulfur	34-1	17165.42	16910.07	16975.71	17017.07	0.78	ppb
Terbium	159-1						%
Terbium	159-2						%
Thallium	203-1	0.01	0.01	0.01	0.01	24.51	ppb
Thallium	205-1	0.01	0.02	0.01	0.01	28.11	ppb
Tin	118-1	0.73	0.65	0.77	0.72	7.97	ppb
Titanium	47-1	1.33	1.42	1.45	1.40	4.19	ppb
Uranium	238-1	3.51	3.45	3.42	3.46	1.32	ppb
Vanadium	51-2	0.93	0.97	0.91	0.94	2.95	ppb
Yttrium	89-1						%
Yttrium	89-2						%
Zinc	66-2	14.68	14.84	14.87	14.80	0.70	ppb
Zirconium	90-1	0.26	0.27	0.28	0.27	3.74	ppb

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On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2745-03	Instrumnet Name :	P7
Client Sample ID :	D1K1-GW-MW-10	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 17:23:12	DataFile Name :	073SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Zirconium	91-1	0.28	0.30	0.32	0.30	7.63	ppb

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On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2585-01DLX20	Instrumnet Name :	P7
Client Sample ID :	22ADL	Dilution Factor :	20
Date & Time Acquired ::	2017-04-18 17:26:41	DataFile Name :	074SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	237.55	248.48	236.39	240.81	2.77	ppb
Antimony	121-1	0.12	0.12	0.11	0.12	1.67	ppb
Arsenic	75-2	0.24	0.24	0.21	0.23	8.00	ppb
Barium	135-1	23.92	23.80	22.87	23.53	2.43	ppb
Barium	137-1	24.21	23.48	23.33	23.67	1.98	ppb
Beryllium	9-1	0.04	0.05	0.02	0.04	35.74	ppb
Bismuth	209-1						%
Bismuth	209-2						%
Boron	10-1	9.65	8.66	7.93	8.75	9.90	ppb
Boron	11-1	8.48	8.40	8.48	8.46	0.55	ppb
Cadmium	106-1	-2.12	-1.60	-2.04	-1.92		ppb
Cadmium	108-1	-0.02	-0.02	0.10	0.02	313.13	ppb
Cadmium	111-1	0.01	0.02	-0.01	0.00	239.94	ppb
Calcium	43-1	14248.04	14059.58	14350.40	14219.34	1.04	ppb
Calcium	44-1	14645.99	14457.70	14664.17	14589.29	0.78	ppb
Chromium	52-2	1.26	1.23	1.20	1.23	2.65	ppb
Cobalt	59-2	0.96	1.00	0.99	0.98	1.88	ppb
Copper	63-2	4.10	4.08	3.90	4.03	2.63	ppb
Dysprosium	156-2						cps
Dysprosium	156-1						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-2						cps
Gadolinium	160-1						cps
Holmium	165-2						%
Holmium	165-1						%
Indium	115-1						%
Indium	115-2						%
Iron	56-2	712.33	702.24	703.56	706.04	0.78	ppb
Iron	57-2	712.84	706.69	717.12	712.22	0.74	ppb
Lead	206-1	0.70	0.74	0.70	0.71	2.98	ppb
Lead	207-1	0.65	0.62	0.61	0.63	2.70	ppb
Lead	208-1	0.68	0.67	0.66	0.67	1.31	ppb
Lithium	6-1						%
Magnesium	24-2	2091.87	2099.32	2091.67	2094.29	0.21	ppb
Manganese	55-2	189.42	186.97	188.57	188.32	0.66	ppb

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2585-01DLX20	Instrumnet Name :	P7
Client Sample ID :	22ADL	Dilution Factor :	20
Date & Time Acquired ::	2017-04-18 17:26:41	DataFile Name :	074SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Molybdenum	94-1	0.06	0.07	0.10	0.07	26.74	ppb
Molybdenum	95-1	0.08	0.11	0.13	0.11	24.98	ppb
Molybdenum	96-1	0.06	0.09	0.12	0.09	30.54	ppb
Molybdenum	97-1	0.11	0.10	0.14	0.12	22.32	ppb
Molybdenum	98-1	0.08	0.10	0.13	0.10	25.36	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	1.96	1.93	2.01	1.97	2.08	ppb
Phosphorus	31-2	10.36	18.70	-8.37	6.89	201.07	ppb
Potassium	39-2	608.30	605.71	605.96	606.66	0.24	ppb
Rhodium	103-2						%
Rhodium	103-1						%
Scandium	45-1						%
Scandium	45-2						%
Selenium	77-2	1.12	0.00	0.28	0.47	124.92	ppb
Selenium	78-2	0.16	-0.16	-0.30	-0.10		ppb
Selenium	82-1	-0.15	-0.51	-0.98	-0.55		ppb
Silicon	28-1	702.06	700.15	721.68	707.96	1.68	ppb
Silver	109-1	0.06	0.07	0.07	0.07	6.07	ppb
Silver	107-1	0.07	0.07	0.07	0.07	2.14	ppb
Sodium	23-2	34078.21	33887.84	33903.99	33956.68	0.31	ppb
Strontium	86-1	67.13	66.81	65.76	66.57	1.07	ppb
Strontium	88-1	68.20	67.78	66.96	67.65	0.93	ppb
Sulfur	34-1	-108.25	-242.68	19.77	-110.39		ppb
Terbium	159-1						%
Terbium	159-2						%
Thallium	203-1	0.00	0.00	0.00	0.00	57.33	ppb
Thallium	205-1	0.00	0.00	0.00	0.00	18.55	ppb
Tin	118-1	0.14	0.16	0.14	0.15	9.35	ppb
Titanium	47-1	24.82	24.58	25.46	24.95	1.81	ppb
Uranium	238-1	0.06	0.06	0.05	0.06	2.89	ppb
Vanadium	51-2	1.04	0.98	0.97	1.00	3.69	ppb
Yttrium	89-2						%
Yttrium	89-1						%
Zinc	66-2	6.33	6.02	6.15	6.17	2.52	ppb
Zirconium	90-1	0.06	0.05	0.05	0.05	8.70	ppb

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2585-01DLX20	Instrumnet Name :	P7
Client Sample ID :	22ADL	Dilution Factor :	20
Date & Time Acquired ::	2017-04-18 17:26:41	DataFile Name :	074SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Zirconium	91-1	0.06	0.06	0.05	0.05	11.81	ppb

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2585-02DLX20	Instrumnet Name :	P7
Client Sample ID :	14ADL	Dilution Factor :	20
Date & Time Acquired ::	2017-04-18 17:30:11	DataFile Name :	075SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	361.89	374.26	371.70	369.28	1.77	ppb
Antimony	121-1	0.04	0.06	0.05	0.05	12.89	ppb
Arsenic	75-2	0.68	0.71	0.74	0.71	4.90	ppb
Barium	135-1	40.56	40.59	39.56	40.24	1.46	ppb
Barium	137-1	41.06	40.71	40.29	40.69	0.95	ppb
Beryllium	9-1	0.04	0.05	0.03	0.04	28.59	ppb
Bismuth	209-1						%
Bismuth	209-2						%
Boron	10-1	6.80	6.35	6.87	6.68	4.19	ppb
Boron	11-1	6.92	6.88	6.87	6.89	0.39	ppb
Cadmium	106-1	-1.34	-0.93	-1.57	-1.28		ppb
Cadmium	108-1	0.05	0.01	-0.04	0.01	795.57	ppb
Cadmium	111-1	-0.03	0.00	-0.02	-0.02		ppb
Calcium	43-1	23040.31	22632.16	22987.71	22886.73	0.97	ppb
Calcium	44-1	23436.15	23055.95	23630.24	23374.12	1.25	ppb
Chromium	52-2	1.50	1.56	1.56	1.54	2.31	ppb
Cobalt	59-2	0.50	0.49	0.47	0.49	3.81	ppb
Copper	63-2	3.55	3.49	3.53	3.52	0.87	ppb
Dysprosium	156-2						cps
Dysprosium	156-1						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-2						cps
Gadolinium	160-1						cps
Holmium	165-2						%
Holmium	165-1						%
Indium	115-1						%
Indium	115-2						%
Iron	56-2	1722.88	1695.75	1704.68	1707.77	0.81	ppb
Iron	57-2	1673.62	1665.60	1664.02	1667.75	0.31	ppb
Lead	206-1	1.11	1.10	1.16	1.12	3.27	ppb
Lead	207-1	1.00	1.00	0.98	0.99	0.99	ppb
Lead	208-1	1.07	1.08	1.07	1.07	0.56	ppb
Lithium	6-1						%
Magnesium	24-2	2545.85	2520.20	2512.44	2526.16	0.69	ppb
Manganese	55-2	49.11	49.43	49.20	49.25	0.33	ppb

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2585-02DLX20	Instrumnet Name :	P7
Client Sample ID :	14ADL	Dilution Factor :	20
Date & Time Acquired ::	2017-04-18 17:30:11	DataFile Name :	075SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Molybdenum	94-1	0.19	0.19	0.19	0.19	1.63	ppb
Molybdenum	95-1	0.11	0.15	0.18	0.15	23.16	ppb
Molybdenum	96-1	0.16	0.15	0.17	0.16	7.48	ppb
Molybdenum	97-1	0.11	0.15	0.16	0.14	18.42	ppb
Molybdenum	98-1	0.12	0.14	0.18	0.15	20.06	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	1.07	1.05	1.03	1.05	1.52	ppb
Phosphorus	31-2	4.89	2.69	12.38	6.65	76.36	ppb
Potassium	39-2	1027.58	1019.28	1032.55	1026.47	0.65	ppb
Rhodium	103-2						%
Rhodium	103-1						%
Scandium	45-1						%
Scandium	45-2						%
Selenium	77-2	0.56	0.55	1.11	0.74	43.54	ppb
Selenium	78-2	-0.37	-0.28	-0.49	-0.38		ppb
Selenium	82-1	0.23	1.03	-0.26	0.34	194.02	ppb
Silicon	28-1	804.70	779.88	799.34	794.64	1.64	ppb
Silver	109-1	0.05	0.06	0.06	0.06	6.77	ppb
Silver	107-1	0.05	0.05	0.07	0.06	10.63	ppb
Sodium	23-2	21468.59	21324.62	21152.36	21315.19	0.74	ppb
Strontium	86-1	145.62	144.95	145.93	145.50	0.34	ppb
Strontium	88-1	150.40	150.58	148.42	149.80	0.80	ppb
Sulfur	34-1	303.76	149.44	189.15	214.12	37.42	ppb
Terbium	159-1						%
Terbium	159-2						%
Thallium	203-1	0.00	0.00	0.00	0.00		ppb
Thallium	205-1	0.00	0.00	0.00	0.00		ppb
Tin	118-1	0.16	0.17	0.13	0.15	11.60	ppb
Titanium	47-1	16.57	16.30	16.36	16.41	0.85	ppb
Uranium	238-1	0.10	0.11	0.10	0.10	6.28	ppb
Vanadium	51-2	1.72	1.75	1.71	1.73	1.21	ppb
Yttrium	89-2						%
Yttrium	89-1						%
Zinc	66-2	3.93	3.67	4.16	3.92	6.32	ppb
Zirconium	90-1	0.19	0.21	0.19	0.20	3.49	ppb

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LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2585-02DLX20	Instrumnet Name :	P7
Client Sample ID :	14ADL	Dilution Factor :	20
Date & Time Acquired ::	2017-04-18 17:30:11	DataFile Name :	075SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Zirconium	91-1	0.19	0.19	0.19	0.19	0.17	ppb

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LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2585-03DLX20	Instrumnet Name :	P7
Client Sample ID :	1ADL	Dilution Factor :	20
Date & Time Acquired ::	2017-04-18 17:33:40	DataFile Name :	076SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	281.57	299.70	298.70	293.32	3.48	ppb
Antimony	121-1	0.10	0.10	0.10	0.10	3.80	ppb
Arsenic	75-2	0.52	0.51	0.49	0.51	3.23	ppb
Barium	135-1	4.53	4.75	4.76	4.68	2.78	ppb
Barium	137-1	4.61	4.62	4.58	4.60	0.50	ppb
Beryllium	9-1	0.05	0.04	0.02	0.04	45.45	ppb
Bismuth	209-1						%
Bismuth	209-2						%
Boron	10-1	4.40	4.78	4.08	4.42	7.95	ppb
Boron	11-1	4.48	4.32	4.39	4.40	1.92	ppb
Cadmium	106-1	-0.80	-0.61	-0.78	-0.73		ppb
Cadmium	108-1	0.00	0.05	0.08	0.04	97.49	ppb
Cadmium	111-1	-0.01	0.00	-0.01	0.00		ppb
Calcium	43-1	4064.43	4105.57	4084.92	4084.97	0.50	ppb
Calcium	44-1	4123.57	4087.40	4101.70	4104.22	0.44	ppb
Chromium	52-2	2.24	2.19	2.14	2.19	2.09	ppb
Cobalt	59-2	0.31	0.31	0.33	0.32	2.85	ppb
Copper	63-2	4.49	4.47	4.55	4.50	0.91	ppb
Dysprosium	156-2						cps
Dysprosium	156-1						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-2						cps
Gadolinium	160-1						cps
Holmium	165-2						%
Holmium	165-1						%
Indium	115-1						%
Indium	115-2						%
Iron	56-2	2497.65	2501.25	2496.73	2498.54	0.10	ppb
Iron	57-2	2448.13	2453.31	2428.58	2443.34	0.53	ppb
Lead	206-1	3.38	3.40	3.41	3.40	0.41	ppb
Lead	207-1	3.12	3.15	3.12	3.13	0.52	ppb
Lead	208-1	3.24	3.28	3.28	3.27	0.61	ppb
Lithium	6-1						%
Magnesium	24-2	481.17	482.33	478.91	480.80	0.36	ppb
Manganese	55-2	32.23	32.93	32.19	32.45	1.29	ppb

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LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2585-03DLX20	Instrumnet Name :	P7
Client Sample ID :	1ADL	Dilution Factor :	20
Date & Time Acquired ::	2017-04-18 17:33:40	DataFile Name :	076SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Molybdenum	94-1	0.48	0.47	0.49	0.48	2.55	ppb
Molybdenum	95-1	1.15	1.04	1.12	1.11	5.09	ppb
Molybdenum	96-1	0.91	0.94	0.95	0.94	2.09	ppb
Molybdenum	97-1	1.09	1.17	1.16	1.14	4.07	ppb
Molybdenum	98-1	1.13	1.09	1.10	1.11	1.55	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.94	0.95	1.02	0.97	4.60	ppb
Phosphorus	31-2	32.36	22.81	42.12	32.43	29.77	ppb
Potassium	39-2	396.09	397.47	401.36	398.31	0.69	ppb
Rhodium	103-2						%
Rhodium	103-1						%
Scandium	45-1						%
Scandium	45-2						%
Selenium	77-2	0.00	0.84	0.56	0.46	91.70	ppb
Selenium	78-2	-0.13	-0.49	0.01	-0.20		ppb
Selenium	82-1	-0.11	-0.43	0.34	-0.07		ppb
Silicon	28-1	594.18	582.05	573.76	583.33	1.76	ppb
Silver	109-1	0.04	0.05	0.06	0.05	13.75	ppb
Silver	107-1	0.06	0.05	0.06	0.05	11.29	ppb
Sodium	23-2	8815.43	8832.99	8867.67	8838.70	0.30	ppb
Strontium	86-1	43.81	44.24	43.49	43.85	0.85	ppb
Strontium	88-1	44.08	44.49	44.25	44.27	0.46	ppb
Sulfur	34-1	-70.67	-227.73	-143.22	-147.21		ppb
Terbium	159-1						%
Terbium	159-2						%
Thallium	203-1	0.00	0.00	0.00	0.00		ppb
Thallium	205-1	0.00	0.00	0.00	0.00		ppb
Tin	118-1	0.22	0.26	0.22	0.23	9.28	ppb
Titanium	47-1	11.59	11.19	11.83	11.54	2.82	ppb
Uranium	238-1	0.09	0.08	0.08	0.08	6.07	ppb
Vanadium	51-2	3.55	3.47	3.68	3.56	2.97	ppb
Yttrium	89-2						%
Yttrium	89-1						%
Zinc	66-2	7.32	6.87	7.33	7.17	3.63	ppb
Zirconium	90-1	0.22	0.20	0.22	0.21	5.32	ppb

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LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2585-03DLX20	Instrumnet Name :	P7
Client Sample ID :	1ADL	Dilution Factor :	20
Date & Time Acquired ::	2017-04-18 17:33:40	DataFile Name :	076SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Zirconium	91-1	0.22	0.42	0.19	0.28	44.71	ppb

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	CCV69	Instrumnet Name :	P7
Client Sample ID :	CCV69	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 17:37:07	DataFile Name :	077CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	9352.90	9356.20	9304.58	9337.89	0.31	ppb
Antimony	121-1	500.29	504.65	490.86	498.60	1.41	ppb
Arsenic	75-2	502.93	504.36	504.84	504.04	0.20	ppb
Barium	135-1	2528.33	2538.70	2484.62	2517.22	1.14	ppb
Barium	137-1	2517.09	2549.50	2492.77	2519.79	1.13	ppb
Beryllium	9-1	490.35	496.03	496.30	494.23	0.68	ppb
Bismuth	209-1						%
Bismuth	209-2						%
Boron	10-1	465.85	481.66	480.42	475.98	1.85	ppb
Boron	11-1	463.92	481.79	486.68	477.46	2.51	ppb
Cadmium	106-1	498.52	501.43	507.18	502.38	0.88	ppb
Cadmium	108-1	506.98	504.83	505.93	505.91	0.21	ppb
Cadmium	111-1	501.44	506.98	496.78	501.73	1.02	ppb
Calcium	43-1	47647.37	47940.95	47432.72	47673.68	0.54	ppb
Calcium	44-1	48465.66	48624.06	48844.15	48644.63	0.39	ppb
Chromium	52-2	508.88	507.91	502.43	506.41	0.69	ppb
Cobalt	59-2	509.67	508.63	504.12	507.47	0.58	ppb
Copper	63-2	1058.38	1050.17	1038.82	1049.12	0.94	ppb
Dysprosium	156-2						cps
Dysprosium	156-1						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-2						cps
Gadolinium	160-1						cps
Holmium	165-2						%
Holmium	165-1						%
Indium	115-1						%
Indium	115-2						%
Iron	56-2	25890.87	25515.58	25460.87	25622.44	0.91	ppb
Iron	57-2	25251.56	25114.79	24999.04	25121.80	0.50	ppb
Lead	206-1	488.76	482.20	481.62	484.19	0.82	ppb
Lead	207-1	480.98	476.98	475.66	477.87	0.58	ppb
Lead	208-1	494.16	487.74	487.81	489.91	0.75	ppb
Lithium	6-1						%
Magnesium	24-2	49705.21	49749.33	49101.41	49518.65	0.73	ppb
Manganese	55-2	1013.60	1017.56	1007.48	1012.88	0.50	ppb

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	CCV69	Instrumnet Name :	P7
Client Sample ID :	CCV69	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 17:37:07	DataFile Name :	077CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Molybdenum	94-1	496.28	493.98	499.58	496.61	0.57	ppb
Molybdenum	95-1	487.74	487.77	489.49	488.33	0.21	ppb
Molybdenum	96-1	486.05	486.30	488.24	486.86	0.25	ppb
Molybdenum	97-1	489.32	493.42	493.03	491.92	0.46	ppb
Molybdenum	98-1	499.82	498.65	503.16	500.54	0.47	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	519.52	516.57	514.20	516.76	0.52	ppb
Phosphorus	31-2	9855.05	9903.78	9835.26	9864.70	0.36	ppb
Potassium	39-2	24330.13	24276.63	23912.59	24173.12	0.94	ppb
Rhodium	103-2						%
Rhodium	103-1						%
Scandium	45-1						%
Scandium	45-2						%
Selenium	77-2	519.15	519.81	502.33	513.76	1.93	ppb
Selenium	78-2	491.31	511.71	503.24	502.08	2.04	ppb
Selenium	82-1	496.09	493.53	498.77	496.13	0.53	ppb
Silicon	28-1	465.05	477.24	473.61	471.97	1.33	ppb
Silver	109-1	516.58	520.00	511.22	515.93	0.86	ppb
Silver	107-1	512.83	510.47	509.62	510.97	0.33	ppb
Sodium	23-2	50135.16	49740.21	49042.68	49639.35	1.11	ppb
Strontium	86-1	491.24	487.04	494.44	490.91	0.76	ppb
Strontium	88-1	505.12	497.31	506.19	502.87	0.96	ppb
Sulfur	34-1	9587.07	9796.30	9483.92	9622.43	1.65	ppb
Terbium	159-1						%
Terbium	159-2						%
Thallium	203-1	505.84	498.39	501.14	501.79	0.75	ppb
Thallium	205-1	500.19	494.44	502.76	499.13	0.85	ppb
Tin	118-1	506.00	505.79	501.36	504.39	0.52	ppb
Titanium	47-1	495.06	494.97	494.41	494.81	0.07	ppb
Uranium	238-1	480.70	474.15	478.62	477.82	0.70	ppb
Vanadium	51-2	507.92	507.47	501.09	505.49	0.76	ppb
Yttrium	89-2						%
Yttrium	89-1						%
Zinc	66-2	1040.80	1031.12	1029.22	1033.71	0.60	ppb
Zirconium	90-1	500.81	496.84	502.39	500.02	0.57	ppb

Reviewed By:jaswal
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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	CCV69	Instrumnet Name :	P7
Client Sample ID :	CCV69	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 17:37:07	DataFile Name :	077CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Zirconium	91-1	485.99	483.62	488.89	486.17	0.54	ppb

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	CCB69	Instrumnet Name :	P7
Client Sample ID :	CCB69	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 17:49:28	DataFile Name :	078CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	0.06	-0.05	0.06	0.03	244.83	ppb
Antimony	121-1	0.55	0.77	1.08	0.80	33.00	ppb
Arsenic	75-2	0.05	0.03	0.11	0.06	68.74	ppb
Barium	135-1	0.00	-0.01	0.00	0.00		ppb
Barium	137-1	-0.01	0.00	-0.01	-0.01		ppb
Beryllium	9-1	0.01	0.01	0.01	0.01	36.59	ppb
Bismuth	209-1						%
Bismuth	209-2						%
Boron	10-1	2.59	2.55	2.60	2.58	0.99	ppb
Boron	11-1	2.68	2.36	2.43	2.49	6.70	ppb
Cadmium	106-1	-2.32	-1.57	-0.86	-1.58		ppb
Cadmium	108-1	-0.03	-0.01	0.03	-0.01		ppb
Cadmium	111-1	-0.06	-0.04	-0.02	-0.04		ppb
Calcium	43-1	0.99	-0.07	-2.81	-0.63		ppb
Calcium	44-1	-9.67	-9.06	-10.97	-9.90		ppb
Chromium	52-2	-0.01	0.02	-0.01	0.00		ppb
Cobalt	59-2	0.00	0.00	-0.01	0.00		ppb
Copper	63-2	0.46	0.45	0.44	0.45	2.08	ppb
Dysprosium	156-2						cps
Dysprosium	156-1						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-2						cps
Gadolinium	160-1						cps
Holmium	165-2						%
Holmium	165-1						%
Indium	115-1						%
Indium	115-2						%
Iron	56-2	0.28	0.23	0.21	0.24	13.96	ppb
Iron	57-2	-0.06	0.31	0.88	0.38	125.83	ppb
Lead	206-1	0.02	0.04	0.02	0.03	36.66	ppb
Lead	207-1	0.02	0.03	0.02	0.02	39.95	ppb
Lead	208-1	0.03	0.03	0.02	0.02	13.15	ppb
Lithium	6-1						%
Magnesium	24-2	0.14	-0.01	0.12	0.08	97.57	ppb
Manganese	55-2	0.02	0.01	0.01	0.01	30.32	ppb

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	CCB69	Instrumnet Name :	P7
Client Sample ID :	CCB69	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 17:49:28	DataFile Name :	078CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Molybdenum	94-1	0.04	0.04	0.07	0.05	34.50	ppb
Molybdenum	95-1	0.08	0.12	0.17	0.12	36.54	ppb
Molybdenum	96-1	0.07	0.10	0.15	0.11	34.85	ppb
Molybdenum	97-1	0.09	0.11	0.19	0.13	42.88	ppb
Molybdenum	98-1	0.08	0.13	0.17	0.13	34.93	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.03	0.00	-0.01	-0.01		ppb
Phosphorus	31-2	-15.06	-14.77	-18.62	-16.15		ppb
Potassium	39-2	-1.30	0.65	0.53	-0.04		ppb
Rhodium	103-2						%
Rhodium	103-1						%
Scandium	45-1						%
Scandium	45-2						%
Selenium	77-2	0.28	0.00	0.28	0.18	86.60	ppb
Selenium	78-2	-0.24	0.45	0.58	0.26	168.06	ppb
Selenium	82-1	0.21	-0.05	-0.19	-0.01		ppb
Silicon	28-1	-4.56	-4.15	-4.69	-4.47		ppb
Silver	109-1	0.01	0.02	0.01	0.01	20.86	ppb
Silver	107-1	0.01	0.01	0.01	0.01	7.26	ppb
Sodium	23-2	2.41	1.77	1.96	2.05	15.93	ppb
Strontium	86-1	0.00	-0.04	-0.04	-0.03		ppb
Strontium	88-1	0.00	0.00	0.00	0.00	15.24	ppb
Sulfur	34-1	-1007.50	-981.21	-1050.97	-1013.23		ppb
Terbium	159-1						%
Terbium	159-2						%
Thallium	203-1	0.00	0.00	0.00	0.00		ppb
Thallium	205-1	0.00	0.00	0.00	0.00	153.87	ppb
Tin	118-1	0.02	0.04	0.05	0.04	43.29	ppb
Titanium	47-1	-0.01	-0.03	-0.04	-0.03		ppb
Uranium	238-1	0.00	-0.01	-0.01	-0.01		ppb
Vanadium	51-2	0.00	0.00	0.00	0.00		ppb
Yttrium	89-2						%
Yttrium	89-1						%
Zinc	66-2	0.03	0.01	0.13	0.06	118.71	ppb
Zirconium	90-1	0.01	0.01	0.01	0.01	23.80	ppb

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	CCB69	Instrumnet Name :	P7
Client Sample ID :	CCB69	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 17:49:28	DataFile Name :	078CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Zirconium	91-1	0.01	0.00	0.02	0.01	95.39	ppb

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	S0	Instrumnet Name :	P7
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 12:23:08	DataFile Name :	003CALB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	33	92	33	53	63.82	cps
Antimony	121-1	883	975	925	928	4.95	cps
Arsenic	75-2	33	15	33	27	39.37	cps
Barium	135-1	67	117	83	89	28.64	cps
Barium	137-1	167	192	242	200	19.09	cps
Beryllium	9-1	56	83	72	70	19.87	cps
Bismuth	209-2	7232102	7102405	7047616	7127374	1.33	cps
Bismuth	209-1	12176641	12408755	12277233	12287543	0.95	cps
Boron	10-1	300	342	233	292	18.73	cps
Boron	11-1	1475	1233	1125	1278	14.02	cps
Cadmium	106-1	5843	5810	5810	5821	0.33	cps
Cadmium	108-1	8	17	42	22	78.07	cps
Cadmium	111-1	1197	1189	1166	1184	1.36	cps
Calcium	43-1	525	492	667	561	16.56	cps
Calcium	44-1	33339	33222	33422	33327	0.30	cps
Chromium	52-2	810	953	873	879	8.17	cps
Cobalt	59-2	123	140	160	141	13.01	cps
Copper	63-2	8486	8453	8709	8549	1.63	cps
Dysprosium	156-1	0	17	25	14	91.65	cps
Dysprosium	156-2	13	10	13	12	15.73	cps
Erbium	164-2	30	27	23	27	12.51	cps
Erbium	164-1	42	33	58	44	28.65	cps
Gadolinium	160-2	83	93	67	81	16.61	cps
Gadolinium	160-1	208	108	133	150	34.69	cps
Holmium	165-1	18263346	18369129	17950642	18194372	1.20	cps
Holmium	165-2	9023830	8947983	8893969	8955261	0.73	cps
Indium	115-1	15055366	15341727	15000421	15132505	1.21	cps
Indium	115-2	2802984	2810995	2784733	2799570	0.48	cps
Iron	56-2	7252	7208	7274	7245	0.47	cps
Iron	57-2	167	189	167	174	7.37	cps
Lead	206-1	1617	1684	1806	1702	5.63	cps
Lead	207-1	1706	1556	1422	1561	9.08	cps
Lead	208-1	7029	6918	6923	6956	0.90	cps
Lithium	6-1	1688270	1683846	1678134	1683417	0.30	cps
Magnesium	24-2	267	183	183	211	22.79	cps
Manganese	55-2	110	110	80	100	17.32	cps

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On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	S0	Instrumnet Name :	P7
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 12:23:08	DataFile Name :	003CALB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Molybdenum	94-1	508	517	625	550	11.83	cps
Molybdenum	95-1	283	275	483	347	33.97	cps
Molybdenum	96-1	533	550	500	528	4.82	cps
Molybdenum	97-1	225	208	267	233	12.88	cps
Molybdenum	98-1	525	517	650	564	13.25	cps
Neodymium	150-1	0	20	0	7	173.21	cps
Neodymium	150-2	0	0	3	1	173.21	cps
Nickel	60-2	303	420	410	378	17.12	cps
Phosphorus	31-2	600	433	483	506	16.92	cps
Potassium	39-2	58265	57881	56124	57423	1.99	cps
Rhodium	103-2	6716562	6676389	6668074	6687008	0.39	cps
Rhodium	103-1	13939265	14034972	14181615	14051951	0.87	cps
Scandium	45-1	9396396	9442229	9407274	9415300	0.25	cps
Scandium	45-2	448649	452463	448548	449887	0.50	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	122	161	115	133	18.74	cps
Selenium	82-1	155	-115	124	55	269.62	cps
Silicon	28-1	557337	558811	558698	558282	0.15	cps
Silver	107-1	208	233	283	242	15.80	cps
Silver	109-1	175	133	142	150	14.70	cps
Sodium	23-2	31885	31642	31359	31629	0.83	cps
Strontium	86-1	7260	8111	7769	7713	5.55	cps
Strontium	88-1	742	600	708	683	10.84	cps
Sulfur	34-1	884686	887983	873731	882133	0.85	cps
Terbium	159-2	8853225	8768580	8776285	8799364	0.53	cps
Terbium	159-1	18850536	18974418	18810334	18878429	0.45	cps
Thallium	203-1	250	242	225	239	5.33	cps
Thallium	205-1	517	558	542	539	3.89	cps
Tin	118-1	858	833	792	828	4.07	cps
Titanium	47-1	258	283	175	239	23.74	cps
Uranium	238-1	417	458	525	467	11.71	cps
Vanadium	51-2	37	33	43	38	13.48	cps
Yttrium	89-2	2193219	2201882	2173527	2189543	0.66	cps
Yttrium	89-1	15327395	15451216	15436053	15404888	0.44	cps
Zinc	66-2	240	217	247	234	6.72	cps
Zirconium	90-1	1033	792	1125	983	17.51	cps

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	S0	Instrumnet Name :	P7
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 12:23:08	DataFile Name :	003CALB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Zirconium	91-1	217	267	133	206	32.77	cps

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	S2	Instrumnet Name :	P7
Client Sample ID :	S2	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 12:30:43	DataFile Name :	005CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	3209	3142	3559	3303	6.78	cps
Antimony	121-1	32121	33265	32004	32464	2.15	cps
Arsenic	75-2	578	609	622	603	3.79	cps
Barium	135-1	35664	36750	35931	36115	1.57	cps
Barium	137-1	62583	62834	62584	62667	0.23	cps
Beryllium	9-1	2684	2884	2761	2776	3.63	cps
Bismuth	209-2	6989931	7034092	7010355	7011459	0.32	cps
Bismuth	209-1	12342625	12308459	11959550	12203545	1.74	cps
Boron	10-1	9237	9837	9720	9598	3.32	cps
Boron	11-1	46330	47200	48010	47180	1.78	cps
Cadmium	108-1	333	308	296	313	6.11	cps
Cadmium	111-1	5015	5211	4985	5070	2.42	cps
Cadmium	106-1	6302	6810	6227	6446	4.93	cps
Calcium	43-1	23077	22835	23094	23002	0.63	cps
Calcium	44-1	390401	394241	391246	391962	0.51	cps
Chromium	52-2	11908	11972	11795	11892	0.75	cps
Cobalt	59-2	8696	8666	8623	8662	0.43	cps
Copper	63-2	23689	23676	23579	23648	0.25	cps
Dysprosium	156-2	3	3	20	9	108.30	cps
Dysprosium	156-1	42	17	33	31	41.66	cps
Erbium	164-1	117	108	100	108	7.69	cps
Erbium	164-2	47	43	37	42	12.06	cps
Gadolinium	160-2	77	70	83	77	8.70	cps
Gadolinium	160-1	158	142	150	150	5.56	cps
Holmium	165-1	18286293	18430325	18048938	18255186	1.05	cps
Holmium	165-2	8894841	8933182	8944835	8924286	0.29	cps
Indium	115-1	15131141	15154684	14983539	15089788	0.61	cps
Indium	115-2	2785159	2800441	2788187	2791262	0.29	cps
Iron	57-2	5479	5346	5396	5407	1.25	cps
Iron	56-2	217132	218271	217655	217686	0.26	cps
Lead	206-1	15493	15554	14976	15341	2.07	cps
Lead	207-1	13591	13657	13885	13711	1.13	cps
Lead	208-1	63011	62565	62092	62556	0.73	cps
Lithium	6-1	1670006	1657074	1647049	1658043	0.69	cps
Magnesium	24-2	188816	189188	189129	189044	0.11	cps
Manganese	55-2	2770	3037	3017	2941	5.05	cps

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On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	S2	Instrumnet Name :	P7
Client Sample ID :	S2	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 12:30:43	DataFile Name :	005CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Molybdenum	94-1	28788	28696	27669	28385	2.19	cps
Molybdenum	95-1	36448	35236	33432	35039	4.33	cps
Molybdenum	96-1	39481	38629	39088	39066	1.09	cps
Molybdenum	97-1	22034	21876	21801	21904	0.54	cps
Molybdenum	98-1	56772	55342	55191	55769	1.56	cps
Neodymium	150-2	0	0	0	0	0.00	cps
Neodymium	150-1	13	33	20	22	45.83	cps
Nickel	60-2	2634	2777	2594	2668	3.61	cps
Phosphorus	31-2	550	425	458	478	13.55	cps
Potassium	39-2	244568	241908	241019	242498	0.76	cps
Rhodium	103-2	6683051	6721097	6661078	6688409	0.45	cps
Rhodium	103-1	13942504	14025284	13751394	13906394	1.01	cps
Scandium	45-1	9366069	9433056	9344665	9381263	0.49	cps
Scandium	45-2	448222	447096	447924	447747	0.13	cps
Selenium	82-1	1061	1102	1181	1115	5.44	cps
Selenium	77-2	70	63	63	66	5.87	cps
Selenium	78-2	343	330	326	333	2.63	cps
Silicon	28-1	653909	652495	657026	654477	0.35	cps
Silver	107-1	26100	25641	26250	25997	1.22	cps
Silver	109-1	24505	25407	25315	25076	1.98	cps
Sodium	23-2	406226	404007	402751	404328	0.44	cps
Strontium	86-1	12172	11797	11997	11989	1.57	cps
Strontium	88-1	43509	44069	44946	44175	1.64	cps
Sulfur	34-1	862533	878683	870988	870734	0.93	cps
Terbium	159-2	8839106	8867033	8797187	8834442	0.40	cps
Terbium	159-1	18907981	19049927	18736126	18898011	0.83	cps
Thallium	203-1	15518	15301	15159	15326	1.18	cps
Thallium	205-1	37822	37838	38197	37952	0.56	cps
Tin	118-1	62733	62464	62079	62426	0.53	cps
Titanium	47-1	10404	11405	11080	10963	4.66	cps
Uranium	238-1	49705	49044	48240	48996	1.50	cps
Vanadium	51-2	20508	19950	20274	20244	1.38	cps
Yttrium	89-1	15394613	15443829	15270480	15369641	0.58	cps
Yttrium	89-2	2183777	2184303	2192164	2186748	0.21	cps
Zinc	66-2	2214	2234	2164	2204	1.64	cps
Zirconium	90-1	24255	22852	22143	23083	4.66	cps

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	S2	Instrumnet Name :	P7
Client Sample ID :	S2	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 12:30:43	DataFile Name :	005CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Zirconium	91-1	5285	5310	4709	5101	6.66	cps

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	S3	Instrumnet Name :	P7
Client Sample ID :	S3	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 12:34:31	DataFile Name :	006CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	155190	158102	157992	157094	1.05	cps
Antimony	121-1	724926	696831	673276	698344	3.70	cps
Arsenic	75-2	32163	32442	32392	32332	0.46	cps
Barium	135-1	1008160	1005114	1004948	1006074	0.18	cps
Barium	137-1	1764016	1749204	1751736	1754985	0.45	cps
Beryllium	9-1	151846	149754	152144	151248	0.86	cps
Bismuth	209-1	12069234	12065358	12117278	12083957	0.24	cps
Bismuth	209-2	6939030	7005340	6994721	6979697	0.51	cps
Boron	10-1	21533	22342	21791	21889	1.89	cps
Boron	11-1	103361	105114	105265	104580	1.01	cps
Cadmium	106-1	30735	31010	30408	30718	0.98	cps
Cadmium	108-1	16827	16614	16898	16780	0.88	cps
Cadmium	111-1	219703	217218	216559	217827	0.76	cps
Calcium	43-1	251607	248905	248173	249562	0.72	cps
Calcium	44-1	4114962	4074930	4082182	4090691	0.52	cps
Chromium	52-2	285236	289966	291106	288769	1.08	cps
Cobalt	59-2	468894	470489	472595	470660	0.39	cps
Copper	63-2	689815	698477	699387	695893	0.76	cps
Dysprosium	156-2	7	20	3	10	88.20	cps
Dysprosium	156-1	17	42	17	25	57.73	cps
Erbium	164-1	67	67	58	64	7.53	cps
Erbium	164-2	30	33	13	26	41.94	cps
Gadolinium	160-2	53	60	73	62	16.37	cps
Gadolinium	160-1	142	167	167	158	9.11	cps
Holmium	165-2	8791972	8860736	8836272	8829660	0.39	cps
Holmium	165-1	18146179	18115849	18060037	18107355	0.24	cps
Indium	115-1	15050366	14745138	14739177	14844894	1.20	cps
Indium	115-2	2715793	2739719	2755915	2737142	0.74	cps
Iron	56-2	11589032	11570812	11711972	11623939	0.66	cps
Iron	57-2	282449	285823	287654	285308	0.93	cps
Lead	206-1	678704	672733	675391	675609	0.44	cps
Lead	207-1	616680	602806	611185	610223	1.14	cps
Lead	208-1	2762374	2730393	2734846	2742538	0.63	cps
Lithium	6-1	1635758	1623705	1631375	1630279	0.37	cps
Magnesium	24-2	2064761	2089988	2103322	2086024	0.94	cps
Manganese	55-2	308645	308569	309725	308980	0.21	cps

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	S3	Instrumnet Name :	P7
Client Sample ID :	S3	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 12:34:31	DataFile Name :	006CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Molybdenum	94-1	757632	751569	763865	757689	0.81	cps
Molybdenum	95-1	407018	399466	398424	401636	1.17	cps
Molybdenum	96-1	526844	517409	515180	519811	1.19	cps
Molybdenum	97-1	251159	247988	245465	248204	1.15	cps
Molybdenum	98-1	650656	646455	640522	645878	0.79	cps
Neodymium	150-1	67	87	87	80	14.43	cps
Neodymium	150-2	7	0	10	6	91.64	cps
Nickel	60-2	125420	126759	127795	126658	0.94	cps
Phosphorus	31-2	9879	10337	9737	9984	3.14	cps
Potassium	39-2	1068174	1080393	1080864	1076477	0.67	cps
Rhodium	103-2	6465896	6493439	6539679	6499672	0.57	cps
Rhodium	103-1	13786289	13799320	13817861	13801157	0.11	cps
Scandium	45-1	9351290	9193507	9165043	9236614	1.09	cps
Scandium	45-2	444024	444865	444997	444629	0.12	cps
Selenium	77-2	707	557	633	632	11.86	cps
Selenium	78-2	2328	2208	2293	2276	2.72	cps
Selenium	82-1	13910	14059	13853	13941	0.76	cps
Silicon	28-1	1162232	1164321	1167213	1164589	0.21	cps
Silver	109-1	1051878	1045576	1046769	1048074	0.32	cps
Silver	107-1	1103636	1093980	1102024	1099880	0.47	cps
Sodium	23-2	4158091	4149796	4202596	4170161	0.68	cps
Strontium	86-1	322152	319093	318018	319754	0.67	cps
Strontium	88-1	2743081	2727526	2729240	2733282	0.31	cps
Sulfur	34-1	926362	926883	921079	924775	0.35	cps
Terbium	159-1	18864835	18600663	18669463	18711654	0.73	cps
Terbium	159-2	8657298	8786742	8747722	8730587	0.76	cps
Thallium	203-1	843105	835072	837901	838693	0.49	cps
Thallium	205-1	2014090	2003277	2011329	2009566	0.28	cps
Tin	118-1	698894	686423	694753	693357	0.92	cps
Titanium	47-1	123590	121532	122455	122526	0.84	cps
Uranium	238-1	2719217	2704785	2720762	2714921	0.32	cps
Vanadium	51-2	230353	231260	231050	230888	0.21	cps
Yttrium	89-2	2137342	2163168	2170882	2157131	0.81	cps
Yttrium	89-1	15310778	15041923	15080533	15144411	0.96	cps
Zinc	66-2	97577	98717	98523	98272	0.62	cps
Zirconium	90-1	1478314	1442160	1442668	1454380	1.43	cps

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LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	S3	Instrumnet Name :	P7
Client Sample ID :	S3	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 12:34:31	DataFile Name :	006CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Zirconium	91-1	324137	320507	324977	323207	0.74	cps

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LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	S4	Instrumnet Name :	P7
Client Sample ID :	S4	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 12:38:36	DataFile Name :	007CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	403280	402822	397555	401219	0.79	cps
Antimony	121-1	1992634	1940257	1874198	1935696	3.07	cps
Arsenic	75-2	81298	80838	81229	81121	0.31	cps
Barium	135-1	2549229	2524773	2502601	2525534	0.92	cps
Barium	137-1	4496330	4428009	4400401	4441580	1.11	cps
Beryllium	9-1	381785	372414	373768	375989	1.35	cps
Bismuth	209-1	12015431	12063353	11965443	12014742	0.41	cps
Bismuth	209-2	6993989	7059428	7007383	7020267	0.49	cps
Boron	10-1	54483	52250	54466	53733	2.39	cps
Boron	11-1	260451	261948	261136	261178	0.29	cps
Cadmium	106-1	66716	66774	67328	66939	0.50	cps
Cadmium	108-1	42080	41862	41753	41898	0.40	cps
Cadmium	111-1	542517	540143	539633	540764	0.28	cps
Calcium	43-1	627388	616235	614748	619457	1.12	cps
Calcium	44-1	10088424	10193378	9971573	10084458	1.10	cps
Chromium	52-2	729358	724506	729467	727777	0.39	cps
Cobalt	59-2	1177012	1172290	1184034	1177779	0.50	cps
Copper	63-2	1732608	1729176	1733156	1731647	0.12	cps
Dysprosium	156-2	7	13	3	8	65.47	cps
Dysprosium	156-1	58	42	50	50	16.67	cps
Erbium	164-1	67	33	108	69	54.12	cps
Erbium	164-2	30	33	17	27	33.06	cps
Gadolinium	160-2	83	83	77	81	4.75	cps
Gadolinium	160-1	183	142	167	164	12.80	cps
Holmium	165-2	8962932	9032140	8932204	8975759	0.57	cps
Holmium	165-1	18325780	18180146	18102171	18202699	0.62	cps
Indium	115-1	14846308	14761135	14775875	14794439	0.31	cps
Indium	115-2	2776023	2780681	2761577	2772761	0.36	cps
Iron	56-2	29337498	29489557	29288758	29371938	0.36	cps
Iron	57-2	715101	730371	724553	723342	1.07	cps
Lead	206-1	1677572	1688188	1672803	1679521	0.47	cps
Lead	207-1	1534607	1523169	1527266	1528347	0.38	cps
Lead	208-1	6878275	6870307	6876311	6874964	0.06	cps
Lithium	6-1	1652991	1629796	1628232	1637006	0.85	cps
Magnesium	24-2	5245182	5206399	5205272	5218951	0.44	cps
Manganese	55-2	779046	776955	779624	778542	0.18	cps

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Lab Sample ID :	S4	Instrumnet Name :	P7
Client Sample ID :	S4	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 12:38:36	DataFile Name :	007CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Molybdenum	94-1	1943819	1933520	1907102	1928147	0.98	cps
Molybdenum	95-1	1036418	1026371	1002849	1021879	1.69	cps
Molybdenum	96-1	1319297	1319978	1296990	1312088	1.00	cps
Molybdenum	97-1	640986	633517	624348	632950	1.32	cps
Molybdenum	98-1	1671853	1634323	1617030	1641069	1.71	cps
Neodymium	150-1	167	127	220	171	27.37	cps
Neodymium	150-2	23	13	33	23	42.86	cps
Nickel	60-2	318376	318876	319198	318816	0.13	cps
Phosphorus	31-2	24738	25247	24546	24844	1.46	cps
Potassium	39-2	2613927	2643176	2629984	2629029	0.56	cps
Rhodium	103-2	6574242	6587792	6549333	6570456	0.30	cps
Rhodium	103-1	13678363	13511690	13538804	13576286	0.66	cps
Scandium	45-1	9253743	9362569	9327681	9314664	0.60	cps
Scandium	45-2	448681	450572	445979	448411	0.51	cps
Selenium	77-2	1593	1617	1590	1600	0.91	cps
Selenium	78-2	5421	5729	5848	5666	3.88	cps
Selenium	82-1	34969	35131	34307	34802	1.25	cps
Silicon	28-1	2090518	2092447	2108482	2097149	0.47	cps
Silver	109-1	2624323	2613693	2586563	2608193	0.75	cps
Silver	107-1	2733853	2717643	2725491	2725663	0.30	cps
Sodium	23-2	10468368	10455662	10378429	10434153	0.47	cps
Strontium	86-1	792664	784902	784440	787335	0.59	cps
Strontium	88-1	6921981	6775547	6706298	6801275	1.62	cps
Sulfur	34-1	1027809	1030827	1021149	1026595	0.48	cps
Terbium	159-1	18666227	18778991	18466321	18637180	0.85	cps
Terbium	159-2	8840670	8885302	8870545	8865506	0.26	cps
Thallium	203-1	2104928	2115755	2088598	2103094	0.65	cps
Thallium	205-1	5052213	5069733	5055077	5059008	0.19	cps
Tin	118-1	1762276	1755638	1747336	1755083	0.43	cps
Titanium	47-1	306121	306171	305350	305881	0.15	cps
Uranium	238-1	6980833	6990680	6867016	6946176	0.99	cps
Vanadium	51-2	580925	580544	576441	579304	0.43	cps
Yttrium	89-2	2184062	2189896	2194814	2189590	0.25	cps
Yttrium	89-1	15341533	15132471	15175677	15216561	0.73	cps
Zinc	66-2	245957	244916	244075	244983	0.38	cps
Zirconium	90-1	3706486	3699489	3693086	3699687	0.18	cps

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LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	S4	Instrumnet Name :	P7
Client Sample ID :	S4	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 12:38:36	DataFile Name :	007CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Zirconium	91-1	828910	818912	818799	822207	0.71	cps

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LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	S5	Instrumnet Name :	P7
Client Sample ID :	S5	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 12:42:16	DataFile Name :	008CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	774860	775476	778860	776399	0.28	cps
Antimony	121-1	4099259	4043696	4004039	4048998	1.18	cps
Arsenic	75-2	159178	159162	161257	159866	0.75	cps
Barium	135-1	5000651	5028339	5027993	5018995	0.32	cps
Barium	137-1	8685474	8731967	8727524	8714988	0.29	cps
Beryllium	9-1	748713	746938	748654	748102	0.13	cps
Bismuth	209-2	6880476	6772394	6800597	6817822	0.82	cps
Bismuth	209-1	11737476	11923169	11948440	11869695	0.97	cps
Boron	10-1	106423	108028	109125	107859	1.26	cps
Boron	11-1	509599	522257	520817	517558	1.34	cps
Cadmium	106-1	125528	128293	127958	127260	1.19	cps
Cadmium	111-1	1062723	1072409	1073111	1069414	0.54	cps
Cadmium	108-1	81466	81621	81776	81621	0.19	cps
Calcium	43-1	1227278	1246409	1235094	1236260	0.78	cps
Calcium	44-1	19767566	20123200	19986085	19958950	0.90	cps
Chromium	52-2	1422811	1418461	1418819	1420030	0.17	cps
Cobalt	59-2	2307960	2311746	2324870	2314858	0.38	cps
Copper	63-2	3351328	3362889	3364703	3359640	0.22	cps
Dysprosium	156-2	27	10	20	19	44.42	cps
Dysprosium	156-1	142	75	100	106	31.91	cps
Erbium	164-1	92	92	50	78	30.93	cps
Erbium	164-2	30	40	20	30	33.33	cps
Gadolinium	160-2	73	67	103	81	24.08	cps
Gadolinium	160-1	133	158	208	167	22.91	cps
Holmium	165-1	17821718	18299402	18140591	18087237	1.34	cps
Holmium	165-2	8902481	8723315	8790448	8805414	1.03	cps
Indium	115-2	2710505	2687485	2681367	2693119	0.57	cps
Indium	115-1	14344865	14570809	14489504	14468392	0.79	cps
Iron	56-2	57647390	57680615	57882230	57736745	0.22	cps
Iron	57-2	1424560	1424203	1422587	1423783	0.07	cps
Lead	206-1	3309508	3350418	3377734	3345887	1.03	cps
Lead	207-1	3028642	3060053	3069010	3052568	0.69	cps
Lead	208-1	13457055	13701878	13707139	13622024	1.05	cps
Lithium	6-1	1607028	1613695	1612338	1611020	0.22	cps
Magnesium	24-2	10125417	10053247	10220599	10133088	0.83	cps
Manganese	55-2	1523483	1519790	1523475	1522249	0.14	cps

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LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	S5	Instrumnet Name :	P7
Client Sample ID :	S5	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 12:42:16	DataFile Name :	008CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Molybdenum	94-1	3816769	3826711	3875723	3839734	0.82	cps
Molybdenum	95-1	2055694	2057277	2058836	2057269	0.08	cps
Molybdenum	96-1	2648072	2640182	2641498	2643251	0.16	cps
Molybdenum	97-1	1273402	1266999	1273576	1271325	0.29	cps
Molybdenum	98-1	3305442	3278970	3290307	3291573	0.40	cps
Neodymium	150-2	47	37	40	41	12.39	cps
Neodymium	150-1	347	347	253	316	17.08	cps
Nickel	60-2	617694	612091	624050	617945	0.97	cps
Phosphorus	31-2	48597	46908	47426	47644	1.82	cps
Potassium	39-2	5118115	5017440	5026436	5053997	1.10	cps
Rhodium	103-2	6467829	6368362	6410598	6415596	0.78	cps
Rhodium	103-1	13416733	13403619	13505513	13441955	0.41	cps
Scandium	45-1	9028531	9195178	9362385	9195365	1.82	cps
Scandium	45-2	444523	436379	436405	439102	1.07	cps
Selenium	82-1	69376	70718	69877	69991	0.97	cps
Selenium	77-2	3220	3147	3154	3174	1.28	cps
Selenium	78-2	10849	10750	10795	10798	0.46	cps
Silicon	28-1	3635795	3725611	3742301	3701236	1.55	cps
Silver	107-1	5397136	5410757	5438892	5415595	0.39	cps
Silver	109-1	5107902	5183440	5202668	5164670	0.97	cps
Sodium	23-2	20359427	20267500	20400103	20342343	0.33	cps
Strontium	86-1	1571719	1571842	1558981	1567514	0.47	cps
Strontium	88-1	13510140	13453326	13587637	13517035	0.50	cps
Sulfur	34-1	1245920	1247063	1241296	1244760	0.25	cps
Terbium	159-2	8807066	8559988	8685612	8684222	1.42	cps
Terbium	159-1	18494036	18571156	18538211	18534468	0.21	cps
Thallium	203-1	4155605	4217755	4169481	4180947	0.78	cps
Thallium	205-1	9831865	9853979	9839479	9841774	0.11	cps
Tin	118-1	3468133	3480009	3474049	3474064	0.17	cps
Titanium	47-1	603193	611111	611235	608513	0.76	cps
Uranium	238-1	13923806	13993673	13916601	13944693	0.31	cps
Vanadium	51-2	1145782	1140034	1143754	1143190	0.26	cps
Yttrium	89-1	14967396	15169149	15097647	15078064	0.68	cps
Yttrium	89-2	2163316	2101082	2131765	2132055	1.46	cps
Zinc	66-2	477757	481167	478429	479117	0.38	cps
Zirconium	90-1	7241253	7352024	7378907	7324061	1.00	cps

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LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	S5	Instrumnet Name :	P7
Client Sample ID :	S5	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 12:42:16	DataFile Name :	008CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Zirconium	91-1	1610356	1617275	1629704	1619112	0.61	cps

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LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	S6	Instrumnet Name :	P7
Client Sample ID :	S6	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 12:45:53	DataFile Name :	009CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1544135	1533241	1524816	1534064	0.63	cps
Antimony	121-1	8378903	8284337	8186724	8283321	1.16	cps
Arsenic	75-2	312588	314052	314716	313785	0.35	cps
Barium	135-1	9867323	9895775	9882079	9881726	0.14	cps
Barium	137-1	17245175	17198531	17273348	17239018	0.22	cps
Beryllium	9-1	1452857	1458962	1441305	1451041	0.62	cps
Bismuth	209-1	11460419	11537400	11463507	11487108	0.38	cps
Bismuth	209-2	6597909	6700944	6675200	6658018	0.81	cps
Boron	10-1	212176	216201	210606	212994	1.36	cps
Boron	11-1	1020495	1027918	1024711	1024375	0.36	cps
Cadmium	106-1	248299	246520	244053	246291	0.87	cps
Cadmium	108-1	158951	159937	159469	159452	0.31	cps
Cadmium	111-1	2079036	2073918	2076078	2076344	0.12	cps
Calcium	43-1	2403151	2425815	2427358	2418775	0.56	cps
Calcium	44-1	38862462	39307282	39701826	39290523	1.07	cps
Chromium	52-2	2773300	2799100	2798752	2790384	0.53	cps
Cobalt	59-2	4499214	4567346	4535497	4534019	0.75	cps
Copper	63-2	6606420	6588594	6641807	6612274	0.41	cps
Dysprosium	156-2	67	103	87	86	21.46	cps
Dysprosium	156-1	183	250	433	289	44.81	cps
Erbium	164-1	217	108	117	147	40.95	cps
Erbium	164-2	70	60	73	68	10.24	cps
Gadolinium	160-2	160	160	100	140	24.74	cps
Gadolinium	160-1	250	283	258	264	6.57	cps
Holmium	165-1	17726533	17919072	17837656	17827754	0.54	cps
Holmium	165-2	8733547	8859612	8729433	8774197	0.84	cps
Indium	115-1	14150928	14104132	14102793	14119284	0.19	cps
Indium	115-2	2606373	2636539	2613443	2618785	0.60	cps
Iron	56-2	113679091	113750703	113776944	113735579	0.04	cps
Iron	57-2	2782935	2817475	2809440	2803283	0.64	cps
Lead	208-1	26508771	26526680	26628713	26554721	0.24	cps
Lead	206-1	6557426	6534562	6534973	6542321	0.20	cps
Lead	207-1	5921978	5961400	5981685	5955021	0.51	cps
Lithium	6-1	1582917	1597257	1585707	1588627	0.48	cps
Magnesium	24-2	19974163	20024638	20020362	20006388	0.14	cps
Manganese	55-2	2978099	3000343	3010935	2996459	0.56	cps

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LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	S6	Instrumnet Name :	P7
Client Sample ID :	S6	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 12:45:53	DataFile Name :	009CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Molybdenum	94-1	7624381	7587733	7567599	7593237	0.38	cps
Molybdenum	95-1	4085785	4042442	4029772	4052666	0.72	cps
Molybdenum	96-1	5287547	5207932	5222061	5239180	0.81	cps
Molybdenum	97-1	2528323	2503411	2508567	2513434	0.52	cps
Molybdenum	98-1	6646594	6561682	6596156	6601477	0.65	cps
Neodymium	150-1	773	753	733	753	2.66	cps
Neodymium	150-2	127	180	113	140	25.20	cps
Nickel	60-2	1197991	1216827	1205745	1206854	0.78	cps
Phosphorus	31-2	93527	93651	95572	94250	1.22	cps
Potassium	39-2	10005126	10046375	10054398	10035300	0.26	cps
Rhodium	103-1	12945356	13013719	12997876	12985651	0.28	cps
Rhodium	103-2	6219919	6218638	6257829	6232129	0.36	cps
Scandium	45-2	436098	436428	435859	436128	0.07	cps
Scandium	45-1	9053277	8973391	8964234	8996967	0.54	cps
Selenium	82-1	135307	134213	133782	134434	0.58	cps
Selenium	77-2	6165	6418	6198	6260	2.20	cps
Selenium	78-2	20487	21067	20978	20844	1.50	cps
Silicon	28-1	5291537	5352532	5336707	5326925	0.59	cps
Silver	109-1	10041478	10052660	10095060	10063066	0.28	cps
Silver	107-1	10482347	10582842	10608305	10557831	0.63	cps
Sodium	23-2	40053279	40194170	39771126	40006192	0.54	cps
Strontium	88-1	26497392	26508033	26540665	26515363	0.09	cps
Strontium	86-1	3041169	3041423	3032617	3038403	0.16	cps
Sulfur	34-1	1638244	1647661	1640595	1642167	0.30	cps
Terbium	159-2	8581344	8690876	8561114	8611111	0.81	cps
Terbium	159-1	18232584	18168308	18176550	18192481	0.19	cps
Thallium	203-1	8288049	8287040	8221566	8265552	0.46	cps
Thallium	205-1	19480879	19510190	19232414	19407828	0.79	cps
Tin	118-1	6899973	6964873	6836928	6900591	0.93	cps
Titanium	47-1	1193585	1200081	1193700	1195789	0.31	cps
Uranium	238-1	27345229	27521066	27490413	27452236	0.34	cps
Vanadium	51-2	2252259	2255329	2263962	2257183	0.27	cps
Yttrium	89-2	2101464	2116768	2115567	2111266	0.40	cps
Yttrium	89-1	14643676	14812098	14659297	14705024	0.63	cps
Zinc	66-2	921214	928907	929600	926573	0.50	cps
Zirconium	90-1	14695746	14497700	14466182	14553209	0.86	cps

Reviewed By:jaswal
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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	S6	Instrumnet Name :	P7
Client Sample ID :	S6	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 12:45:53	DataFile Name :	009CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Zirconium	91-1	3204911	3208015	3214691	3209206	0.16	cps

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	S7	Instrumnet Name :	P7
Client Sample ID :	S7	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 12:49:24	DataFile Name :	010CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	3043063	3037204	3049308	3043192	0.20	cps
Antimony	121-1	16953551	16810163	16749755	16837823	0.62	cps
Arsenic	75-2	618136	623497	631795	624476	1.10	cps
Barium	135-1	19826205	19711067	19780832	19772701	0.29	cps
Barium	137-1	34206230	34446973	34220000	34291067	0.39	cps
Beryllium	9-1	2861542	2847288	2857899	2855577	0.26	cps
Bismuth	209-1	11332526	11285121	11497229	11371625	0.98	cps
Bismuth	209-2	6446724	6442662	6501042	6463476	0.50	cps
Boron	10-1	418897	423189	430348	424145	1.36	cps
Boron	11-1	2011569	2015985	2051912	2026489	1.09	cps
Cadmium	106-1	478365	479438	478124	478643	0.15	cps
Cadmium	108-1	314761	314259	312330	313783	0.41	cps
Cadmium	111-1	4068567	4030738	4031646	4043651	0.53	cps
Calcium	43-1	4885696	4918080	4926768	4910181	0.44	cps
Calcium	44-1	78656108	78770216	78874885	78767070	0.14	cps
Chromium	52-2	5535649	5595756	5530705	5554037	0.65	cps
Cobalt	59-2	8961336	8998784	9021307	8993809	0.34	cps
Copper	63-2	12902458	12802885	12812287	12839210	0.43	cps
Dysprosium	156-2	63	103	67	78	28.54	cps
Dysprosium	156-1	258	317	350	308	15.05	cps
Erbium	164-1	117	100	108	108	7.69	cps
Erbium	164-2	53	57	60	57	5.89	cps
Gadolinium	160-2	127	150	127	134	10.02	cps
Gadolinium	160-1	200	167	217	194	13.10	cps
Holmium	165-2	8673652	8632599	8635808	8647353	0.26	cps
Holmium	165-1	17771371	18007634	17902567	17893857	0.66	cps
Indium	115-1	13939422	13781615	13966083	13895707	0.72	cps
Indium	115-2	2549897	2542265	2574244	2555469	0.65	cps
Iron	56-2	224436872	225936194	226329088	225567385	0.44	cps
Iron	57-2	5573964	5568558	5601660	5581394	0.32	cps
Lead	206-1	12931065	13141532	12897744	12990113	1.02	cps
Lead	207-1	11892874	12045664	11908453	11948997	0.70	cps
Lead	208-1	52678321	53383506	53106713	53056180	0.67	cps
Lithium	6-1	1558737	1564281	1563120	1562046	0.19	cps
Magnesium	24-2	39488552	39474665	39733538	39565585	0.37	cps
Manganese	55-2	5913586	5906466	6017941	5945997	1.05	cps

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LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	S7	Instrumnet Name :	P7
Client Sample ID :	S7	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 12:49:24	DataFile Name :	010CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Molybdenum	94-1	15288847	15327195	15318294	15311445	0.13	cps
Molybdenum	95-1	8251950	8238110	8144753	8211604	0.71	cps
Molybdenum	96-1	10786746	10649619	10711343	10715903	0.64	cps
Molybdenum	97-1	5104000	5076341	5038787	5073043	0.65	cps
Molybdenum	98-1	13282176	13320400	13148542	13250373	0.68	cps
Neodymium	150-1	1040	1147	973	1053	8.30	cps
Neodymium	150-2	113	97	130	113	14.70	cps
Nickel	60-2	2322854	2337950	2347005	2335936	0.52	cps
Phosphorus	31-2	182881	185058	183745	183895	0.60	cps
Potassium	39-2	19700099	19631530	19869412	19733680	0.62	cps
Rhodium	103-2	6031864	6050213	6103945	6062007	0.62	cps
Rhodium	103-1	12818994	12832598	12959158	12870250	0.60	cps
Scandium	45-1	9208645	9041296	8980175	9076705	1.30	cps
Scandium	45-2	435727	433674	436158	435186	0.30	cps
Selenium	77-2	11902	12229	12422	12184	2.16	cps
Selenium	78-2	40770	40939	41487	41065	0.91	cps
Selenium	82-1	265700	266484	265596	265926	0.18	cps
Silicon	28-1	9159543	9220508	9228168	9202740	0.41	cps
Silver	109-1	19907306	19908799	19756063	19857389	0.44	cps
Silver	107-1	20728985	20772305	20855741	20785677	0.31	cps
Sodium	23-2	79721783	79234339	79378531	79444884	0.32	cps
Strontium	86-1	6135684	6228977	6122430	6162364	0.94	cps
Strontium	88-1	53152568	52953111	52243726	52783135	0.90	cps
Sulfur	34-1	2454800	2476213	2459215	2463410	0.46	cps
Terbium	159-1	18238799	18333333	18497350	18356494	0.71	cps
Terbium	159-2	8465287	8545083	8565358	8525243	0.62	cps
Thallium	203-1	16221662	16388675	16299674	16303337	0.51	cps
Thallium	205-1	38220126	38552710	38286223	38353020	0.46	cps
Tin	118-1	13854162	13710678	13674821	13746553	0.69	cps
Titanium	47-1	2392191	2391252	2384090	2389178	0.19	cps
Uranium	238-1	54887271	54869586	55309868	55022242	0.45	cps
Vanadium	51-2	4478865	4527935	4509925	4505575	0.55	cps
Yttrium	89-2	2073087	2080231	2096754	2083357	0.58	cps
Yttrium	89-1	14868779	14901602	14794817	14855066	0.37	cps
Zinc	66-2	1794952	1791194	1805085	1797077	0.40	cps
Zirconium	90-1	29071349	29150780	28905940	29042690	0.43	cps

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LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	S7	Instrumnet Name :	P7
Client Sample ID :	S7	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 12:49:24	DataFile Name :	010CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Zirconium	91-1	6468208	6509419	6481861	6486496	0.32	cps

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	S8	Instrumnet Name :	P7
Client Sample ID :	S8	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 12:52:51	DataFile Name :	011CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	16116061	16404841	16624806	16381903	1.56	cps
Antimony	121-1	83247	90886	99887	91340	9.12	cps
Arsenic	75-2	1015	1000	1200	1072	10.40	cps
Barium	135-1	7853	7402	7377	7544	3.55	cps
Barium	137-1	13749	13173	12865	13262	3.38	cps
Beryllium	9-1	494	444	478	472	5.39	cps
Bismuth	209-1	10116672	10137974	10158325	10137657	0.21	cps
Bismuth	209-2	5892030	5914914	5942054	5916333	0.42	cps
Boron	10-1	12656	11897	10704	11752	8.37	cps
Boron	11-1	60480	55603	52776	56286	6.92	cps
Cadmium	106-1	5551	5176	5051	5260	4.95	cps
Cadmium	108-1	96	121	92	103	15.35	cps
Cadmium	111-1	1886	1850	1601	1779	8.73	cps
Calcium	43-1	24287723	23989919	24285176	24187606	0.71	cps
Calcium	44-1	393327434	389051275	397578142	393318950	1.08	cps
Chromium	52-2	126807	128137	129022	127989	0.87	cps
Cobalt	59-2	11591	11581	11628	11600	0.21	cps
Copper	63-2	23643	24137	23843	23874	1.04	cps
Dysprosium	156-2	117	113	80	103	19.62	cps
Dysprosium	156-1	350	300	258	303	15.16	cps
Erbium	164-1	158	158	167	161	2.98	cps
Erbium	164-2	97	77	83	86	11.90	cps
Gadolinium	160-2	130	160	160	150	11.55	cps
Gadolinium	160-1	308	225	283	272	15.71	cps
Holmium	165-2	8518760	8590597	8544131	8551163	0.43	cps
Holmium	165-1	16771675	16986787	16791033	16849832	0.71	cps
Indium	115-1	13376114	13439271	13507746	13441044	0.49	cps
Indium	115-2	2581753	2570076	2610819	2587550	0.81	cps
Iron	56-2	1159393448	1155405581	1162593137	1159130722	0.31	cps
Iron	57-2	28279543	28450046	28835507	28521699	1.00	cps
Lead	206-1	21785	22269	22264	22106	1.26	cps
Lead	207-1	19264	18981	18669	18971	1.57	cps
Lead	208-1	88356	88797	87259	88137	0.90	cps
Lithium	6-1	1441534	1449034	1453605	1448057	0.42	cps
Magnesium	24-2	204529400	205194246	207730600	205818082	0.82	cps
Manganese	55-2	23489	23339	24003	23610	1.48	cps

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LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	S8	Instrumnet Name :	P7
Client Sample ID :	S8	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 12:52:51	DataFile Name :	011CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Molybdenum	94-1	25532	28062	30392	27995	8.68	cps
Molybdenum	95-1	39974	42999	47145	43373	8.30	cps
Molybdenum	96-1	48793	53300	57483	53192	8.17	cps
Molybdenum	97-1	24597	26851	28863	26770	7.97	cps
Molybdenum	98-1	62789	67168	75492	68483	9.42	cps
Neodymium	150-1	180	200	273	218	22.57	cps
Neodymium	150-2	90	93	127	103	19.62	cps
Nickel	60-2	29620	30198	29831	29883	0.98	cps
Phosphorus	31-2	808	792	842	814	3.13	cps
Potassium	39-2	104647888	104719327	107254594	105540603	1.41	cps
Rhodium	103-2	5621088	5627098	5686510	5644899	0.64	cps
Rhodium	103-1	11695993	11721805	11747993	11721931	0.22	cps
Scandium	45-1	8673481	8811865	8868701	8784682	1.14	cps
Scandium	45-2	439906	440312	449615	443278	1.24	cps
Selenium	77-2	7	30	23	20	60.08	cps
Selenium	78-2	246	211	209	222	9.39	cps
Selenium	82-1	258	294	88	213	51.67	cps
Silicon	28-1	765968	745888	743095	751650	1.66	cps
Silver	109-1	4026	3359	3634	3673	9.12	cps
Silver	107-1	4543	3742	3567	3951	13.16	cps
Sodium	23-2	407767501	406276501	411322268	408455423	0.63	cps
Strontium	86-1	172659	171192	173336	172395	0.64	cps
Strontium	88-1	1454635	1448887	1448620	1450714	0.23	cps
Sulfur	34-1	773642	775936	780356	776645	0.44	cps
Terbium	159-1	17353250	17461087	17622674	17479003	0.78	cps
Terbium	159-2	8415495	8386910	8460369	8420925	0.44	cps
Thallium	203-1	7552	6910	6210	6891	9.74	cps
Thallium	205-1	18021	16486	15209	16572	8.50	cps
Tin	118-1	14858	16852	17453	16388	8.29	cps
Titanium	47-1	23584	2884	10288	12252	85.61	cps
Uranium	238-1	13633	12432	11697	12587	7.76	cps
Vanadium	51-2	1510	1583	1563	1552	2.44	cps
Yttrium	89-2	2124182	2101288	2135830	2120433	0.83	cps
Yttrium	89-1	14297523	14286858	14286614	14290332	0.04	cps
Zinc	66-2	14651	14371	14557	14526	0.98	cps
Zirconium	90-1	8720	9270	9378	9123	3.87	cps

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LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	S8	Instrumnet Name :	P7
Client Sample ID :	S8	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 12:52:51	DataFile Name :	011CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Zirconium	91-1	2167	2050	2134	2117	2.84	cps

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	ICV01	Instrumnet Name :	P7
Client Sample ID :	ICV01	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 12:56:35	DataFile Name :	012ICV01.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	85444	85084	84371	84966	0.64	cps
Antimony	121-1	3612606	3553285	3445869	3537253	2.39	cps
Arsenic	75-2	136549	136277	136038	136288	0.19	cps
Barium	135-1	413904	417241	405324	412156	1.49	cps
Barium	137-1	721873	722887	709907	718222	1.01	cps
Beryllium	9-1	306268	302597	300743	303203	0.93	cps
Bismuth	209-1	12498114	12523459	12536623	12519398	0.16	cps
Bismuth	209-2	7366164	7446355	7372833	7395117	0.60	cps
Boron	10-1	265809	268209	262671	265563	1.05	cps
Boron	11-1	1275901	1293080	1273295	1280759	0.84	cps
Cadmium	106-1	102454	103359	99682	101832	1.88	cps
Cadmium	108-1	52125	50415	51188	51243	1.67	cps
Cadmium	111-1	448733	451728	446663	449042	0.57	cps
Calcium	43-1	122355	120018	120010	120794	1.12	cps
Calcium	44-1	1894795	1876291	1873918	1881668	0.61	cps
Chromium	52-2	587054	584003	588257	586438	0.37	cps
Cobalt	59-2	976865	972967	983733	977855	0.56	cps
Copper	63-2	710153	717459	719317	715643	0.68	cps
Dysprosium	156-2	0	0	10	3	173.21	cps
Dysprosium	156-1	50	8	8	22	108.27	cps
Erbium	164-1	217	167	150	178	19.52	cps
Erbium	164-2	83	83	77	81	4.74	cps
Gadolinium	160-2	50	37	120	69	64.98	cps
Gadolinium	160-1	133	108	150	131	16.06	cps
Holmium	165-1	18845257	18497780	18620126	18654388	0.94	cps
Holmium	165-2	9288723	9295548	9261481	9281917	0.19	cps
Indium	115-2	2912109	2908224	2918144	2912825	0.17	cps
Indium	115-1	15640508	15530236	15380867	15517204	0.84	cps
Iron	56-2	4935103	4912793	4947595	4931830	0.36	cps
Iron	57-2	122205	119544	122664	121471	1.39	cps
Lead	206-1	2778416	2777491	2755622	2770509	0.47	cps
Lead	207-1	2417730	2416991	2401625	2412115	0.38	cps
Lead	208-1	11134847	11093606	11042340	11090265	0.42	cps
Lithium	6-1	1745982	1757788	1766121	1756631	0.58	cps
Magnesium	24-2	535298	535879	529366	533514	0.68	cps
Manganese	55-2	321676	321218	324711	322535	0.59	cps

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LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	ICV01	Instrumnet Name :	P7
Client Sample ID :	ICV01	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 12:56:35	DataFile Name :	012ICV01.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Molybdenum	94-1	8643183	8673379	8586987	8634516	0.51	cps
Molybdenum	95-1	4636552	4624499	4557551	4606201	0.92	cps
Molybdenum	96-1	6144842	6072480	5978968	6065430	1.37	cps
Molybdenum	97-1	2863899	2842747	2794532	2833726	1.25	cps
Molybdenum	98-1	7594002	7531573	7397002	7507526	1.34	cps
Neodymium	150-1	40	27	20	29	35.25	cps
Neodymium	150-2	10	3	3	6	69.34	cps
Nickel	60-2	264147	263751	263406	263768	0.14	cps
Phosphorus	31-2	650	700	633	661	5.25	cps
Potassium	39-2	949634	933970	942749	942118	0.83	cps
Rhodium	103-2	7024006	6953790	6953796	6977197	0.58	cps
Rhodium	103-1	14633784	14724303	14466068	14608051	0.90	cps
Scandium	45-2	486875	478624	480434	481978	0.90	cps
Scandium	45-1	9959849	9907784	9986859	9951498	0.40	cps
Selenium	77-2	2804	2720	2697	2740	2.05	cps
Selenium	78-2	9575	9446	9327	9449	1.31	cps
Selenium	82-1	60023	59297	59242	59521	0.73	cps
Silicon	28-1	5342014	5392843	5371062	5368640	0.48	cps
Silver	109-1	2157037	2152536	2145967	2151847	0.26	cps
Silver	107-1	2270968	2266205	2241249	2259474	0.71	cps
Sodium	23-2	1818643	1813341	1813288	1815091	0.17	cps
Strontium	86-1	3092339	3055161	3067088	3071529	0.62	cps
Strontium	88-1	27002937	26740938	26677285	26807053	0.64	cps
Sulfur	34-1	856763	847273	839074	847703	1.04	cps
Terbium	159-2	9343597	9319751	9295052	9319467	0.26	cps
Terbium	159-1	19531016	19451846	19475911	19486257	0.21	cps
Thallium	203-1	3452242	3449187	3431715	3444381	0.32	cps
Thallium	205-1	8260441	8271683	8222881	8251668	0.31	cps
Tin	118-1	7897632	7819053	7851024	7855903	0.50	cps
Titanium	47-1	1359365	1362070	1357978	1359804	0.15	cps
Uranium	238-1	30049012	29968879	29740092	29919328	0.54	cps
Vanadium	51-2	481416	470299	474754	475490	1.18	cps
Yttrium	89-2	2311155	2319257	2308962	2313125	0.23	cps
Yttrium	89-1	16289726	16130124	16093690	16171180	0.64	cps
Zinc	66-2	205785	208970	207086	207280	0.77	cps
Zirconium	90-1	16527328	16518078	16421958	16489122	0.35	cps

Reviewed By:jaswal
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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	ICV01	Instrumnet Name :	P7
Client Sample ID :	ICV01	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 12:56:35	DataFile Name :	012ICV01.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Zirconium	91-1	3629647	3605066	3626340	3620351	0.37	cps

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On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	ICB01	Instrumnet Name :	P7
Client Sample ID :	ICB01	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 13:02:34	DataFile Name :	013CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	183	167	267	206	26.07	cps
Antimony	121-1	15726	18196	22085	18669	17.17	cps
Arsenic	75-2	174	224	191	196	12.97	cps
Barium	135-1	125	92	92	103	18.73	cps
Barium	137-1	200	258	217	225	13.35	cps
Beryllium	9-1	189	144	167	167	13.33	cps
Bismuth	209-1	12457906	12326569	12407377	12397284	0.53	cps
Bismuth	209-2	7269245	7325560	7257692	7284166	0.50	cps
Boron	10-1	2684	2534	2725	2648	3.81	cps
Boron	11-1	13181	13040	13131	13117	0.55	cps
Cadmium	106-1	5485	5751	5660	5632	2.41	cps
Cadmium	108-1	29	42	29	33	21.65	cps
Cadmium	111-1	1146	1200	1198	1181	2.59	cps
Calcium	43-1	783	792	733	770	4.10	cps
Calcium	44-1	35552	34775	35961	35430	1.70	cps
Chromium	52-2	933	927	983	948	3.27	cps
Cobalt	59-2	157	160	157	158	1.22	cps
Copper	63-2	5211	5058	5595	5288	5.23	cps
Dysprosium	156-2	3	7	3	4	43.40	cps
Dysprosium	156-1	67	25	0	31	110.22	cps
Erbium	164-1	58	50	75	61	20.83	cps
Erbium	164-2	30	13	27	23	37.81	cps
Gadolinium	160-2	60	63	73	66	10.58	cps
Gadolinium	160-1	167	100	117	128	27.15	cps
Holmium	165-2	9169667	9184535	9223537	9192580	0.30	cps
Holmium	165-1	18488749	18498394	18445684	18477609	0.15	cps
Indium	115-1	15434168	15391870	15517223	15447754	0.41	cps
Indium	115-2	2847020	2850900	2888537	2862153	0.80	cps
Iron	56-2	18573	18217	18318	18369	1.00	cps
Iron	57-2	406	406	567	459	20.26	cps
Lead	206-1	3000	2917	2773	2897	3.98	cps
Lead	207-1	2650	2406	2511	2523	4.86	cps
Lead	208-1	12425	11475	11463	11788	4.68	cps
Lithium	6-1	1676886	1663795	1670402	1670361	0.39	cps
Magnesium	24-2	1508	1350	1600	1486	8.51	cps
Manganese	55-2	90	97	70	86	16.22	cps

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	ICB01	Instrumnet Name :	P7
Client Sample ID :	ICB01	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 13:02:34	DataFile Name :	013CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Molybdenum	94-1	2617	3401	4351	3456	25.12	cps
Molybdenum	95-1	3859	4826	6627	5104	27.52	cps
Molybdenum	96-1	3984	5626	7577	5729	31.40	cps
Molybdenum	97-1	2092	2984	4226	3101	34.57	cps
Molybdenum	98-1	5810	7827	11488	8375	34.37	cps
Neodymium	150-1	0	13	13	9	86.60	cps
Neodymium	150-2	0	0	3	1	173.21	cps
Nickel	60-2	330	317	393	347	11.82	cps
Phosphorus	31-2	533	650	642	608	10.70	cps
Potassium	39-2	67521	65888	65169	66193	1.82	cps
Rhodium	103-2	6853390	6846450	6915243	6871694	0.55	cps
Rhodium	103-1	14442329	14339685	14290717	14357577	0.54	cps
Scandium	45-1	9750059	9612235	9626438	9662911	0.78	cps
Scandium	45-2	463848	465352	461415	463538	0.43	cps
Selenium	77-2	10	13	3	9	57.30	cps
Selenium	78-2	124	154	165	148	14.27	cps
Selenium	82-1	111	112	-116	36	368.55	cps
Silicon	28-1	568269	570226	566204	568233	0.35	cps
Silver	109-1	275	317	392	328	18.04	cps
Silver	107-1	375	317	383	358	10.14	cps
Sodium	23-2	62950	60690	61334	61658	1.89	cps
Strontium	86-1	7711	7711	7627	7683	0.63	cps
Strontium	88-1	942	867	783	864	9.17	cps
Sulfur	34-1	832331	831452	833513	832432	0.12	cps
Terbium	159-1	19105883	18906156	18897164	18969734	0.62	cps
Terbium	159-2	9071083	9022448	9082686	9058739	0.35	cps
Thallium	203-1	817	942	825	861	8.12	cps
Thallium	205-1	2275	1984	2275	2178	7.73	cps
Tin	118-1	2609	3559	4468	3545	26.22	cps
Titanium	47-1	300	183	317	267	27.24	cps
Uranium	238-1	808	725	667	733	9.71	cps
Vanadium	51-2	70	47	47	54	24.74	cps
Yttrium	89-2	2258694	2227046	2256321	2247354	0.78	cps
Yttrium	89-1	15834924	15677255	15717494	15743224	0.52	cps
Zinc	66-2	280	327	323	310	8.40	cps
Zirconium	90-1	1508	1717	1700	1642	7.05	cps

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	ICB01	Instrumnet Name :	P7
Client Sample ID :	ICB01	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 13:02:34	DataFile Name :	013CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Zirconium	91-1	317	375	408	367	12.66	cps

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	ICSA01	Instrumnet Name :	P7
Client Sample ID :	ICSA01	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 13:06:04	DataFile Name :	014ICSA01.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	15122588	15195451	15267296	15195112	0.48	cps
Antimony	121-1	27745	29056	30409	29070	4.58	cps
Arsenic	75-2	293	302	311	302	3.07	cps
Barium	135-1	5760	5877	6135	5924	3.24	cps
Barium	137-1	10271	10621	10738	10543	2.31	cps
Beryllium	9-1	972	761	817	850	12.87	cps
Bismuth	209-1	11446713	11346773	11585001	11459496	1.04	cps
Bismuth	209-2	6533530	6574120	6564093	6557248	0.32	cps
Boron	10-1	2484	2309	2192	2328	6.31	cps
Boron	11-1	11246	11296	11413	11319	0.76	cps
Cadmium	106-1	5418	5743	5518	5560	3.00	cps
Cadmium	108-1	4222	4576	4451	4416	4.07	cps
Cadmium	111-1	3931	3629	3893	3818	4.30	cps
Calcium	43-1	4934861	4931249	4912971	4926360	0.24	cps
Calcium	44-1	80250339	79349385	80519606	80039777	0.77	cps
Chromium	52-2	112021	112199	112384	112202	0.16	cps
Cobalt	59-2	10557	10664	10661	10627	0.57	cps
Copper	63-2	60033	59116	59574	59574	0.77	cps
Dysprosium	156-2	23	20	27	23	14.29	cps
Dysprosium	156-1	75	117	108	100	22.05	cps
Erbium	164-1	75	183	100	119	47.50	cps
Erbium	164-2	70	53	33	52	35.16	cps
Gadolinium	160-2	90	83	100	91	9.20	cps
Gadolinium	160-1	158	200	200	186	12.93	cps
Holmium	165-2	8937466	9087447	9018911	9014608	0.83	cps
Holmium	165-1	18479582	18099468	18072545	18217198	1.25	cps
Indium	115-1	14587723	14623248	14803644	14671539	0.79	cps
Indium	115-2	2730342	2751483	2738019	2739948	0.39	cps
Iron	56-2	453125010	455983721	454771532	454626755	0.32	cps
Iron	57-2	11199611	11219191	11197591	11205464	0.11	cps
Lead	206-1	61168	61118	61034	61107	0.11	cps
Lead	207-1	47446	48104	48127	47892	0.81	cps
Lead	208-1	228219	226491	228289	227667	0.45	cps
Lithium	6-1	1585806	1594861	1604211	1594959	0.58	cps
Magnesium	24-2	40348876	40572207	40447826	40456303	0.28	cps
Manganese	55-2	24901	24618	24637	24719	0.64	cps

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LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	ICSA01	Instrumnet Name :	P7
Client Sample ID :	ICSA01	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 13:06:04	DataFile Name :	014ICSA01.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Molybdenum	94-1	9207969	9137323	9132541	9159278	0.46	cps
Molybdenum	95-1	16174859	16301605	16227837	16234767	0.39	cps
Molybdenum	96-1	17633587	17434393	17560088	17542689	0.57	cps
Molybdenum	97-1	10199727	10042357	10115914	10119333	0.78	cps
Molybdenum	98-1	26245277	26251136	25946881	26147765	0.67	cps
Neodymium	150-1	107	67	73	82	26.06	cps
Neodymium	150-2	20	37	50	36	42.27	cps
Nickel	60-2	13470	13269	13443	13394	0.81	cps
Phosphorus	31-2	943572	949799	945564	946312	0.34	cps
Potassium	39-2	40731494	40750418	40496400	40659437	0.35	cps
Rhodium	103-2	6331228	6315059	6307454	6317914	0.19	cps
Rhodium	103-1	13328589	13255986	13188123	13257566	0.53	cps
Scandium	45-1	9461202	9401376	9474703	9445760	0.41	cps
Scandium	45-2	451627	451952	452450	452010	0.09	cps
Selenium	77-2	3	7	13	8	65.47	cps
Selenium	78-2	133	156	167	152	11.18	cps
Selenium	82-1	-83	-411	83	-137	-183.20	cps
Silicon	28-1	792827	782581	793904	789771	0.79	cps
Silver	109-1	2175	2500	2559	2411	8.57	cps
Silver	107-1	2184	2217	2800	2400	14.45	cps
Sodium	23-2	80768135	81542289	81659808	81323411	0.60	cps
Strontium	86-1	185670	185003	184676	185116	0.27	cps
Strontium	88-1	1558413	1541308	1546324	1548681	0.57	cps
Sulfur	34-1	6659022	6663409	6851667	6724699	1.64	cps
Terbium	159-1	18701803	18742665	18802641	18749037	0.27	cps
Terbium	159-2	8980687	8875667	8821292	8892549	0.91	cps
Thallium	203-1	1000	1075	1108	1061	5.23	cps
Thallium	205-1	2217	2384	2609	2403	8.18	cps
Tin	118-1	3984	4318	4393	4231	5.14	cps
Titanium	47-1	4932274	4852379	4907309	4897321	0.83	cps
Uranium	238-1	2450	2292	2425	2389	3.56	cps
Vanadium	51-2	880	930	867	892	3.74	cps
Yttrium	89-2	2180904	2190496	2186673	2186024	0.22	cps
Yttrium	89-1	15503808	15232348	15200354	15312170	1.09	cps
Zinc	66-2	11221	11171	11101	11164	0.54	cps
Zirconium	90-1	8695	8945	9162	8934	2.62	cps

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LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	ICSA01	Instrumnet Name :	P7
Client Sample ID :	ICSA01	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 13:06:04	DataFile Name :	014ICSA01.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Zirconium	91-1	1875	1859	2117	1950	7.41	cps

Reviewed By:jaswal
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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	ICSAB01	Instrumnet Name :	P7
Client Sample ID :	ICSAB01	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 13:09:30	DataFile Name :	015ICSB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	15235303	15365248	15319661	15306737	0.43	cps
Antimony	121-1	347160	346245	341432	344946	0.89	cps
Arsenic	75-2	13210	12935	13134	13093	1.08	cps
Barium	135-1	84985	86318	85386	85563	0.80	cps
Barium	137-1	150358	152631	149144	150711	1.17	cps
Beryllium	9-1	57972	58842	58809	58541	0.84	cps
Bismuth	209-1	11339292	11431506	11225376	11332058	0.91	cps
Bismuth	209-2	6535326	6587704	6568406	6563812	0.40	cps
Boron	10-1	24579	25172	25005	24919	1.23	cps
Boron	11-1	116555	119596	119781	118644	1.53	cps
Cadmium	106-1	18446	17336	17929	17904	3.10	cps
Cadmium	108-1	11959	12030	11868	11952	0.68	cps
Cadmium	111-1	85412	84254	84483	84716	0.72	cps
Calcium	43-1	4893162	4884286	4938280	4905243	0.59	cps
Calcium	44-1	79396412	79703556	79857635	79652534	0.29	cps
Chromium	52-2	222096	221786	224168	222684	0.58	cps
Cobalt	59-2	192522	192180	192407	192370	0.09	cps
Copper	63-2	190118	191593	189693	190468	0.52	cps
Dysprosium	156-2	23	27	43	31	34.44	cps
Dysprosium	156-1	108	83	92	94	13.48	cps
Erbium	164-1	108	108	158	125	23.09	cps
Erbium	164-2	60	60	57	59	3.26	cps
Gadolinium	160-2	110	103	83	99	14.03	cps
Gadolinium	160-1	250	142	200	197	27.49	cps
Holmium	165-1	18215010	18281999	18275467	18257492	0.20	cps
Holmium	165-2	9014672	9096371	9054220	9055088	0.45	cps
Indium	115-2	2753628	2755023	2744317	2750989	0.21	cps
Indium	115-1	14695946	14654081	14679962	14676663	0.14	cps
Iron	56-2	451866766	458370355	452637188	454291436	0.78	cps
Iron	57-2	11258415	11325579	11224586	11269527	0.46	cps
Lead	206-1	318959	321947	320623	320510	0.47	cps
Lead	207-1	266394	264518	271393	267435	1.33	cps
Lead	208-1	1235635	1242715	1242575	1240309	0.33	cps
Lithium	6-1	1570814	1596494	1624536	1597282	1.68	cps
Magnesium	24-2	40675530	40845929	40854805	40792088	0.25	cps
Manganese	55-2	85631	85363	85547	85514	0.16	cps

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	ICSAB01	Instrumnet Name :	P7
Client Sample ID :	ICSAB01	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 13:09:30	DataFile Name :	015ICSB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Molybdenum	94-1	9932367	9988275	9898023	9939555	0.46	cps
Molybdenum	95-1	16599917	16538460	16745449	16627942	0.64	cps
Molybdenum	96-1	18133615	18134498	18130554	18132889	0.01	cps
Molybdenum	97-1	10502637	10418326	10384666	10435210	0.58	cps
Molybdenum	98-1	26906332	27011677	27045434	26987814	0.27	cps
Neodymium	150-1	87	87	67	80	14.43	cps
Neodymium	150-2	27	23	27	26	7.55	cps
Nickel	60-2	61900	61358	60247	61168	1.38	cps
Phosphorus	31-2	939185	953270	954062	948839	0.88	cps
Potassium	39-2	40945624	41299166	40885880	41043556	0.54	cps
Rhodium	103-2	6368584	6420578	6381473	6390212	0.42	cps
Rhodium	103-1	13276204	13208946	13346411	13277187	0.52	cps
Scandium	45-1	9313252	9511505	9505606	9443454	1.19	cps
Scandium	45-2	456018	454612	454414	455015	0.19	cps
Selenium	77-2	303	207	223	244	21.14	cps
Selenium	78-2	1054	994	959	1003	4.76	cps
Selenium	82-1	5607	5324	5309	5413	3.10	cps
Silicon	28-1	1397727	1408770	1409952	1405483	0.48	cps
Silver	109-1	378937	383528	384146	382203	0.74	cps
Silver	107-1	397838	397365	397797	397667	0.07	cps
Sodium	23-2	81276550	81806906	81382223	81488559	0.34	cps
Strontium	86-1	472060	466993	472960	470671	0.68	cps
Strontium	88-1	4052547	4032135	4068267	4050983	0.45	cps
Sulfur	34-1	6639007	6699209	6634451	6657556	0.54	cps
Terbium	159-1	18730191	18789831	18773997	18764673	0.16	cps
Terbium	159-2	8931963	8877284	8857842	8889030	0.43	cps
Thallium	203-1	320872	323616	317655	320714	0.93	cps
Thallium	205-1	761737	776306	771218	769754	0.96	cps
Tin	118-1	724766	726488	717724	722993	0.64	cps
Titanium	47-1	4956659	5016455	4999107	4990741	0.62	cps
Uranium	238-1	2730094	2727443	2699593	2719044	0.62	cps
Vanadium	51-2	90683	91499	91619	91267	0.56	cps
Yttrium	89-2	2208293	2211302	2209267	2209621	0.07	cps
Yttrium	89-1	15356550	15304114	15389813	15350159	0.28	cps
Zinc	66-2	29564	29944	29998	29835	0.79	cps
Zirconium	90-1	1532818	1538683	1529657	1533720	0.30	cps

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	ICSAB01	Instrumnet Name :	P7
Client Sample ID :	ICSAB01	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 13:09:30	DataFile Name :	015ICSB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Zirconium	91-1	336790	343600	340844	340411	1.01	cps

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	CCV63	Instrumnet Name :	P7
Client Sample ID :	CCV63	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 13:12:56	DataFile Name :	016CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1572904	1578244	1590557	1580568	0.57	cps
Antimony	121-1	8456309	8444306	8344287	8414967	0.73	cps
Arsenic	75-2	325404	325382	324893	325227	0.09	cps
Barium	135-1	9971298	10063679	10052711	10029229	0.50	cps
Barium	137-1	17186337	17294579	17463060	17314659	0.81	cps
Beryllium	9-1	1405622	1394969	1398907	1399833	0.38	cps
Bismuth	209-2	6640317	6718969	6704215	6687834	0.63	cps
Bismuth	209-1	11440487	11457551	11448866	11448968	0.07	cps
Boron	10-1	205023	207997	206932	206651	0.73	cps
Boron	11-1	984726	995161	992711	990866	0.55	cps
Cadmium	111-1	2058770	2084369	2081944	2075028	0.68	cps
Cadmium	106-1	241058	244000	241205	242088	0.68	cps
Cadmium	108-1	157578	160324	157522	158475	1.01	cps
Calcium	43-1	2433444	2451067	2445841	2443451	0.37	cps
Calcium	44-1	40118698	39347529	40171067	39879098	1.16	cps
Chromium	52-2	2861388	2873237	2862998	2865874	0.22	cps
Cobalt	59-2	4581127	4594108	4616434	4597223	0.39	cps
Copper	63-2	6719589	6779678	6708076	6735781	0.57	cps
Dysprosium	156-2	40	83	73	66	34.61	cps
Dysprosium	156-1	225	150	108	161	36.70	cps
Erbium	164-1	142	92	158	131	26.57	cps
Erbium	164-2	50	37	63	50	26.66	cps
Gadolinium	160-2	117	107	113	112	4.54	cps
Gadolinium	160-1	233	208	275	239	14.10	cps
Holmium	165-1	17775392	18006214	17931591	17904399	0.66	cps
Holmium	165-2	8874450	8972047	8894856	8913784	0.58	cps
Indium	115-2	2712369	2726248	2725416	2721344	0.29	cps
Indium	115-1	14324854	14425405	14721918	14490726	1.42	cps
Iron	56-2	117930425	118228136	117459680	117872747	0.33	cps
Iron	57-2	2851552	2876093	2892167	2873271	0.71	cps
Lead	206-1	6400852	6456241	6423956	6427016	0.43	cps
Lead	207-1	5834123	5879577	5852214	5855304	0.39	cps
Lead	208-1	26240921	26289196	26197601	26242573	0.17	cps
Lithium	6-1	1543179	1548712	1555124	1549005	0.39	cps
Magnesium	24-2	20652105	20724993	20817477	20731525	0.40	cps
Manganese	55-2	3097897	3125850	3120610	3114786	0.48	cps

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	CCV63	Instrumnet Name :	P7
Client Sample ID :	CCV63	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 13:12:56	DataFile Name :	016CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Molybdenum	94-1	7644880	7742237	7777262	7721460	0.89	cps
Molybdenum	96-1	5318800	5327100	5518217	5388039	2.09	cps
Molybdenum	97-1	2551119	2573230	2558901	2561083	0.44	cps
Molybdenum	98-1	6742389	6825631	6779012	6782344	0.62	cps
Molybdenum	95-1	4100319	4123610	4162836	4128922	0.77	cps
Neodymium	150-1	660	520	660	613	13.18	cps
Neodymium	150-2	93	120	103	106	12.76	cps
Nickel	60-2	1216039	1226177	1226425	1222880	0.48	cps
Phosphorus	31-2	95749	96553	95572	95958	0.54	cps
Potassium	39-2	10520165	10477372	10593646	10530394	0.56	cps
Rhodium	103-2	6381763	6413464	6347238	6380821	0.52	cps
Rhodium	103-1	13240591	13369765	13160415	13256924	0.80	cps
Scandium	45-2	453065	450651	450354	451357	0.33	cps
Scandium	45-1	9222063	9206390	9322367	9250273	0.68	cps
Selenium	82-1	134506	135571	136116	135398	0.60	cps
Selenium	77-2	6145	6502	6518	6388	3.30	cps
Selenium	78-2	21408	21724	21909	21680	1.17	cps
Silicon	28-1	5311335	5330939	5350294	5330856	0.37	cps
Silver	109-1	10151805	10263076	10296183	10237021	0.74	cps
Silver	107-1	10585884	10791196	10605219	10660766	1.06	cps
Sodium	23-2	41116443	41269941	41695991	41360791	0.73	cps
Strontium	86-1	3083901	3099824	3123370	3102365	0.64	cps
Strontium	88-1	27143380	27509190	27137306	27263292	0.78	cps
Sulfur	34-1	1591450	1596026	1593421	1593632	0.14	cps
Terbium	159-2	8747512	8884866	8843883	8825420	0.80	cps
Terbium	159-1	18354093	18504069	18227333	18361832	0.75	cps
Thallium	203-1	8105853	8176964	8214469	8165762	0.68	cps
Thallium	205-1	19019753	19404987	19301812	19242184	1.04	cps
Tin	118-1	6944286	7030895	7012113	6995764	0.65	cps
Titanium	47-1	1201610	1204046	1220328	1208662	0.84	cps
Uranium	238-1	26868803	27002666	26850937	26907468	0.31	cps
Vanadium	51-2	2321479	2328990	2332208	2327559	0.24	cps
Yttrium	89-1	15198734	15259913	15002435	15153694	0.89	cps
Yttrium	89-2	2181961	2207798	2178244	2189334	0.74	cps
Zinc	66-2	938397	941058	946823	942093	0.46	cps
Zirconium	90-1	14637995	14737682	14674712	14683463	0.34	cps

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	CCV63	Instrumnet Name :	P7
Client Sample ID :	CCV63	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 13:12:56	DataFile Name :	016CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Zirconium	91-1	3195323	3255583	3215586	3222164	0.95	cps

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On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	CCB63	Instrumnet Name :	P7
Client Sample ID :	CCB63	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 13:19:53	DataFile Name :	017CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	200	200	225	208	6.93	cps
Antimony	121-1	14500	19005	23554	19020	23.80	cps
Arsenic	75-2	117	178	169	154	21.34	cps
Barium	135-1	300	133	142	192	49.00	cps
Barium	137-1	383	233	267	294	26.76	cps
Beryllium	9-1	144	156	211	170	20.96	cps
Bismuth	209-2	7297825	7033276	7258621	7196574	1.98	cps
Bismuth	209-1	12566495	12377591	12490596	12478227	0.76	cps
Boron	10-1	2767	3042	3125	2978	6.30	cps
Boron	11-1	13573	13223	13315	13370	1.36	cps
Cadmium	108-1	46	29	13	29	57.14	cps
Cadmium	111-1	1114	1137	1070	1107	3.06	cps
Cadmium	106-1	5351	5460	5160	5323	2.85	cps
Calcium	43-1	942	508	700	717	30.31	cps
Calcium	44-1	37186	32153	31793	33711	8.94	cps
Chromium	52-2	810	923	850	861	6.68	cps
Cobalt	59-2	157	177	153	162	7.78	cps
Copper	63-2	6528	6775	6412	6572	2.82	cps
Dysprosium	156-1	0	25	17	14	91.65	cps
Dysprosium	156-2	0	3	3	2	86.60	cps
Erbium	164-2	17	43	20	27	54.47	cps
Erbium	164-1	92	92	25	69	55.43	cps
Gadolinium	160-1	108	133	92	111	18.88	cps
Gadolinium	160-2	47	80	70	66	26.09	cps
Holmium	165-2	9278400	9095956	9212304	9195553	1.00	cps
Holmium	165-1	18762796	18686014	18596612	18681807	0.45	cps
Indium	115-1	15501354	15511314	15448757	15487142	0.22	cps
Indium	115-2	2826026	2846993	2846923	2839980	0.43	cps
Iron	56-2	14847	15080	14841	14923	0.91	cps
Iron	57-2	344	272	356	324	13.96	cps
Lead	206-1	2639	2261	2473	2458	7.70	cps
Lead	207-1	2100	2106	2150	2119	1.29	cps
Lead	208-1	9941	9718	9763	9807	1.20	cps
Lithium	6-1	1616424	1607880	1615462	1613255	0.29	cps
Magnesium	24-2	667	725	600	664	9.42	cps
Manganese	55-2	107	87	77	90	16.97	cps

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	CCB63	Instrumnet Name :	P7
Client Sample ID :	CCB63	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 13:19:53	DataFile Name :	017CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Molybdenum	94-1	2792	3442	4726	3653	26.94	cps
Molybdenum	95-1	4384	5810	6927	5707	22.33	cps
Molybdenum	96-1	4576	5526	7944	6016	28.87	cps
Molybdenum	97-1	2517	3142	4493	3384	29.84	cps
Molybdenum	98-1	6435	8828	10888	8717	25.56	cps
Neodymium	150-1	7	27	13	16	65.47	cps
Neodymium	150-2	3	0	0	1	173.21	cps
Nickel	60-2	290	343	407	347	16.85	cps
Phosphorus	31-2	567	542	533	547	3.17	cps
Potassium	39-2	64198	63520	62457	63392	1.38	cps
Rhodium	103-1	14497400	14276457	14261010	14344956	0.92	cps
Rhodium	103-2	6906831	6817776	6831903	6852170	0.70	cps
Scandium	45-1	9785407	9664451	9645310	9698389	0.78	cps
Scandium	45-2	453994	457991	458211	456732	0.52	cps
Selenium	82-1	-70	-185	5	-84	-114.38	cps
Selenium	77-2	3	3	10	6	69.34	cps
Selenium	78-2	143	178	183	168	13.16	cps
Silicon	28-1	549485	542445	543989	545306	0.68	cps
Silver	107-1	725	633	558	639	13.07	cps
Silver	109-1	650	508	533	564	13.41	cps
Sodium	23-2	46715	45738	45486	45980	1.41	cps
Strontium	86-1	7986	7594	7494	7691	3.38	cps
Strontium	88-1	1768	908	858	1178	43.40	cps
Sulfur	34-1	783838	781563	783620	783007	0.16	cps
Terbium	159-1	19169958	19060028	19193060	19141015	0.37	cps
Terbium	159-2	9104147	9082199	8981776	9056041	0.72	cps
Thallium	203-1	867	825	750	814	7.26	cps
Thallium	205-1	2192	2009	2042	2081	4.69	cps
Tin	118-1	1809	2250	2609	2223	18.03	cps
Titanium	47-1	400	267	383	350	20.76	cps
Uranium	238-1	517	467	383	456	14.79	cps
Vanadium	51-2	37	60	53	50	24.03	cps
Yttrium	89-1	15821469	15638869	15776176	15745505	0.60	cps
Yttrium	89-2	2239993	2232635	2219606	2230744	0.46	cps
Zinc	66-2	233	310	267	270	14.24	cps
Zirconium	90-1	1809	1492	1383	1561	14.15	cps

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	CCB63	Instrumnet Name :	P7
Client Sample ID :	CCB63	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 13:19:53	DataFile Name :	017CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Zirconium	91-1	292	267	375	311	18.23	cps

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	CRI	Instrumnet Name :	P7
Client Sample ID :	CRI	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 13:23:22	DataFile Name :	018SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	3042	2800	2959	2934	4.19	cps
Antimony	121-1	37910	39674	40526	39370	3.39	cps
Arsenic	75-2	689	680	683	684	0.68	cps
Barium	135-1	35104	35346	36649	35700	2.33	cps
Barium	137-1	62131	61931	63069	62377	0.97	cps
Beryllium	9-1	2578	2606	2750	2645	3.50	cps
Bismuth	209-1	12419385	12288159	12379781	12362441	0.54	cps
Bismuth	209-2	6984205	7178313	7162104	7108208	1.52	cps
Boron	10-1	11196	10929	10721	10949	2.18	cps
Boron	11-1	53354	52350	53496	53067	1.18	cps
Cadmium	106-1	6210	6168	5718	6032	4.52	cps
Cadmium	108-1	300	388	363	350	12.88	cps
Cadmium	111-1	5100	5160	5248	5169	1.44	cps
Calcium	43-1	22643	23069	22885	22866	0.93	cps
Calcium	44-1	390238	393304	392537	392027	0.41	cps
Chromium	52-2	11922	11832	11762	11838	0.68	cps
Cobalt	59-2	8609	8392	8546	8516	1.31	cps
Copper	63-2	20161	21069	20782	20670	2.25	cps
Dysprosium	156-2	13	0	3	6	124.93	cps
Dysprosium	156-1	17	0	17	11	86.60	cps
Erbium	164-1	100	67	67	78	24.75	cps
Erbium	164-2	60	57	37	51	24.69	cps
Gadolinium	160-2	77	57	60	64	16.63	cps
Gadolinium	160-1	67	158	125	117	39.77	cps
Holmium	165-2	9209234	9126824	9076292	9137450	0.73	cps
Holmium	165-1	18625648	18752197	18455420	18611088	0.80	cps
Indium	115-1	15292796	15371677	15436902	15367125	0.47	cps
Indium	115-2	2829087	2829053	2836806	2831649	0.16	cps
Iron	56-2	217629	217955	216298	217294	0.40	cps
Iron	57-2	5301	5484	5162	5316	3.04	cps
Lead	206-1	15048	15187	14219	14818	3.53	cps
Lead	207-1	13402	13841	13796	13680	1.77	cps
Lead	208-1	60984	61262	60288	60845	0.82	cps
Lithium	6-1	1615992	1627970	1614272	1619412	0.46	cps
Magnesium	24-2	182944	183392	183527	183288	0.17	cps
Manganese	55-2	2884	2707	2704	2765	3.72	cps

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	CRI	Instrumnet Name :	P7
Client Sample ID :	CRI	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 13:23:22	DataFile Name :	018SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Molybdenum	94-1	31302	31695	31085	31361	0.99	cps
Molybdenum	95-1	38394	39121	39690	39068	1.66	cps
Molybdenum	96-1	42573	43208	43517	43100	1.12	cps
Molybdenum	97-1	23704	23261	24647	23871	2.97	cps
Molybdenum	98-1	62663	61869	62981	62504	0.92	cps
Neodymium	150-1	13	20	7	13	49.99	cps
Neodymium	150-2	3	0	3	2	86.60	cps
Nickel	60-2	2647	2727	2807	2727	2.93	cps
Phosphorus	31-2	625	542	642	603	8.89	cps
Potassium	39-2	243525	244971	244863	244453	0.33	cps
Rhodium	103-2	6828658	6901587	6762135	6830793	1.02	cps
Rhodium	103-1	14354393	14416871	14426933	14399399	0.27	cps
Scandium	45-1	9654650	9723625	9744111	9707462	0.48	cps
Scandium	45-2	453769	452671	453534	453325	0.13	cps
Selenium	77-2	40	57	47	48	17.56	cps
Selenium	78-2	413	359	346	373	9.48	cps
Selenium	82-1	1265	1294	1196	1252	4.04	cps
Silicon	28-1	636206	633329	635485	635007	0.24	cps
Silver	109-1	24631	24998	25541	25056	1.83	cps
Silver	107-1	26142	26259	26684	26362	1.08	cps
Sodium	23-2	411872	411452	413128	412150	0.21	cps
Strontium	86-1	12606	12189	12548	12448	1.82	cps
Strontium	88-1	44103	43927	44462	44164	0.62	cps
Sulfur	34-1	791080	792461	787525	790355	0.32	cps
Terbium	159-1	19069803	19261603	19238972	19190126	0.55	cps
Terbium	159-2	8976542	8982765	8996044	8985117	0.11	cps
Thallium	203-1	16035	16202	15785	16007	1.31	cps
Thallium	205-1	37462	37730	37170	37454	0.75	cps
Tin	118-1	61787	63243	62740	62590	1.18	cps
Titanium	47-1	10788	11572	10988	11116	3.66	cps
Uranium	238-1	45640	46008	46995	46214	1.52	cps
Vanadium	51-2	20588	20241	20308	20379	0.90	cps
Yttrium	89-2	2217274	2219425	2210356	2215685	0.21	cps
Yttrium	89-1	15741508	15819342	15810619	15790489	0.27	cps
Zinc	66-2	2127	2260	2070	2152	4.53	cps
Zirconium	90-1	25607	25281	24647	25179	1.94	cps

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	CRI	Instrumnet Name :	P7
Client Sample ID :	CRI	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 13:23:22	DataFile Name :	018SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Zirconium	91-1	5893	5301	5610	5601	5.28	cps

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	PB98150BL	Instrumnet Name :	P7
Client Sample ID :	PB98150BL	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 13:26:51	DataFile Name :	019CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	83	108	67	86	24.35	cps
Antimony	121-1	3742	4326	4901	4323	13.40	cps
Arsenic	75-2	63	72	94	77	21.14	cps
Barium	135-1	67	92	83	81	15.80	cps
Barium	137-1	117	92	167	125	30.55	cps
Beryllium	9-1	61	94	83	80	21.32	cps
Bismuth	209-1	12623459	12592111	12555829	12590466	0.27	cps
Bismuth	209-2	7308753	7225646	7291387	7275262	0.60	cps
Boron	10-1	1967	1625	1525	1706	13.58	cps
Boron	11-1	9053	8203	8061	8439	6.36	cps
Cadmium	106-1	5335	5593	5793	5574	4.12	cps
Cadmium	108-1	17	29	21	22	28.64	cps
Cadmium	111-1	1099	1114	1167	1126	3.19	cps
Calcium	43-1	350	450	525	442	19.88	cps
Calcium	44-1	30917	31293	30315	30842	1.60	cps
Chromium	52-2	877	907	940	908	3.49	cps
Cobalt	59-2	83	103	97	94	10.78	cps
Copper	63-2	6765	6858	7119	6914	2.65	cps
Dysprosium	156-2	13	7	7	9	43.25	cps
Dysprosium	156-1	0	8	17	8	100.02	cps
Erbium	164-1	75	42	67	61	28.38	cps
Erbium	164-2	27	27	33	29	13.31	cps
Gadolinium	160-2	43	67	57	56	21.08	cps
Gadolinium	160-1	158	142	167	156	8.19	cps
Holmium	165-2	9120950	9165508	9148439	9144966	0.25	cps
Holmium	165-1	18701850	18707519	18650900	18686756	0.17	cps
Indium	115-1	15641828	15575127	15445047	15554001	0.64	cps
Indium	115-2	2834879	2841362	2845945	2840729	0.20	cps
Iron	56-2	9581	9637	9615	9611	0.29	cps
Iron	57-2	222	167	200	196	14.25	cps
Lead	206-1	2311	1884	2172	2122	10.28	cps
Lead	207-1	1778	1878	1784	1813	3.10	cps
Lead	208-1	8596	8168	8840	8535	3.99	cps
Lithium	6-1	1611646	1610746	1608949	1610447	0.09	cps
Magnesium	24-2	333	317	417	356	15.07	cps
Manganese	55-2	53	80	127	87	42.83	cps

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	PB98150BL	Instrumnet Name :	P7
Client Sample ID :	PB98150BL	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 13:26:51	DataFile Name :	019CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Molybdenum	94-1	1317	1600	2350	1756	30.42	cps
Molybdenum	95-1	1584	1917	3142	2214	37.07	cps
Molybdenum	96-1	1692	2667	3409	2589	33.26	cps
Molybdenum	97-1	1108	1333	2000	1481	31.32	cps
Molybdenum	98-1	2700	3692	4743	3712	27.51	cps
Neodymium	150-1	20	0	7	9	114.55	cps
Neodymium	150-2	0	0	3	1	173.21	cps
Nickel	60-2	287	330	307	308	7.05	cps
Phosphorus	31-2	525	533	667	575	13.83	cps
Potassium	39-2	61353	61219	63294	61955	1.87	cps
Rhodium	103-2	6892058	6850739	6824899	6855899	0.49	cps
Rhodium	103-1	14245624	14337571	14457589	14346928	0.74	cps
Scandium	45-1	9638677	9696532	9690542	9675250	0.33	cps
Scandium	45-2	453304	457620	460516	457147	0.79	cps
Selenium	77-2	0	3	3	2	86.60	cps
Selenium	78-2	156	141	144	147	5.25	cps
Selenium	82-1	-110	120	-237	-76	-239.48	cps
Silicon	28-1	537220	532772	533004	534332	0.47	cps
Silver	109-1	450	375	533	453	17.49	cps
Silver	107-1	592	625	525	581	8.77	cps
Sodium	23-2	42010	41659	41592	41753	0.54	cps
Strontium	86-1	7669	7652	7803	7708	1.07	cps
Strontium	88-1	650	800	608	686	14.69	cps
Sulfur	34-1	802574	798970	802337	801294	0.25	cps
Terbium	159-1	19207931	19246866	19316473	19257090	0.29	cps
Terbium	159-2	9041842	9056283	9068142	9055423	0.15	cps
Thallium	203-1	433	300	483	406	23.37	cps
Thallium	205-1	1058	1000	1025	1028	2.85	cps
Tin	118-1	1292	1333	1492	1372	7.69	cps
Titanium	47-1	267	300	275	281	6.18	cps
Uranium	238-1	242	183	183	203	16.61	cps
Vanadium	51-2	53	20	37	37	45.45	cps
Yttrium	89-2	2217288	2236299	2242315	2231967	0.59	cps
Yttrium	89-1	15884619	15788275	15756183	15809692	0.42	cps
Zinc	66-2	220	327	240	262	21.62	cps
Zirconium	90-1	1217	1108	1417	1247	12.54	cps

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	PB98150BL	Instrumnet Name :	P7
Client Sample ID :	PB98150BL	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 13:26:51	DataFile Name :	019CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Zirconium	91-1	342	233	342	306	20.47	cps

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	PB98150BS	Instrumnet Name :	P7
Client Sample ID :	PB98150BS	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 13:30:20	DataFile Name :	020LCSE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	6152	6168	6785	6368	5.67	cps
Antimony	121-1	68627	70462	69832	69640	1.34	cps
Arsenic	75-2	1422	1337	1387	1382	3.10	cps
Barium	135-1	76661	77215	74207	76028	2.11	cps
Barium	137-1	133444	133192	132040	132892	0.56	cps
Beryllium	9-1	6085	5940	5924	5983	1.48	cps
Bismuth	209-2	7381886	7301637	7111169	7264897	1.91	cps
Bismuth	209-1	12400192	12263047	12274526	12312588	0.62	cps
Boron	10-1	8361	8653	9186	8733	4.79	cps
Boron	11-1	41851	42836	42377	42355	1.16	cps
Cadmium	106-1	5851	5843	5935	5876	0.86	cps
Cadmium	108-1	379	438	404	407	7.19	cps
Cadmium	111-1	5431	5344	5633	5469	2.71	cps
Calcium	43-1	49141	48272	49250	48888	1.10	cps
Calcium	44-1	818646	815087	808145	813959	0.66	cps
Chromium	52-2	23552	23502	24457	23837	2.25	cps
Cobalt	59-2	19123	18729	18852	18901	1.07	cps
Copper	63-2	34023	34661	33686	34123	1.45	cps
Dysprosium	156-2	3	3	3	3	0.00	cps
Dysprosium	156-1	25	8	17	17	50.01	cps
Erbium	164-1	42	50	67	53	24.12	cps
Erbium	164-2	30	40	47	39	21.57	cps
Gadolinium	160-2	93	50	50	64	38.83	cps
Gadolinium	160-1	167	100	175	147	27.92	cps
Holmium	165-1	18664283	18491658	18428008	18527983	0.66	cps
Holmium	165-2	9155070	9172142	9125924	9151045	0.26	cps
Indium	115-2	2839773	2831222	2816856	2829284	0.41	cps
Indium	115-1	15475178	15104347	15168060	15249195	1.30	cps
Iron	56-2	1818984	1821192	1824000	1821392	0.14	cps
Iron	57-2	45153	45688	44641	45161	1.16	cps
Lead	206-1	28086	28893	28074	28351	1.66	cps
Lead	207-1	25341	25364	25391	25365	0.10	cps
Lead	208-1	114741	114806	112212	113920	1.30	cps
Lithium	6-1	1603394	1568926	1580278	1584199	1.11	cps
Magnesium	24-2	407754	407931	404143	406610	0.53	cps
Manganese	55-2	6195	6281	6245	6240	0.70	cps

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	PB98150BS	Instrumnet Name :	P7
Client Sample ID :	PB98150BS	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 13:30:20	DataFile Name :	020LCSE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Molybdenum	94-1	62973	64304	61240	62839	2.44	cps
Molybdenum	95-1	77268	77377	74570	76405	2.08	cps
Molybdenum	96-1	84759	84760	83804	84441	0.65	cps
Molybdenum	97-1	48500	47028	48584	48037	1.82	cps
Molybdenum	98-1	124531	123088	121994	123204	1.03	cps
Neodymium	150-2	0	3	0	1	173.21	cps
Neodymium	150-1	27	27	13	22	34.66	cps
Nickel	60-2	5411	5431	5101	5314	3.48	cps
Phosphorus	31-2	558	508	583	550	6.94	cps
Potassium	39-2	457910	462138	459433	459827	0.47	cps
Rhodium	103-1	14285447	13987993	14220458	14164632	1.10	cps
Rhodium	103-2	6831782	6842650	6847224	6840552	0.12	cps
Scandium	45-1	9688311	9414183	9543536	9548677	1.44	cps
Scandium	45-2	454547	455459	452501	454169	0.33	cps
Selenium	82-1	2704	2960	2404	2689	10.36	cps
Selenium	77-2	93	87	133	104	24.17	cps
Selenium	78-2	548	582	550	560	3.35	cps
Silicon	28-1	638162	634343	637443	636649	0.32	cps
Silver	107-1	42991	43017	42181	42730	1.11	cps
Silver	109-1	41846	41679	40710	41412	1.48	cps
Sodium	23-2	836340	834565	823316	831407	0.85	cps
Strontium	86-1	18237	18154	18120	18170	0.33	cps
Strontium	88-1	93320	91524	91802	92215	1.05	cps
Sulfur	34-1	803521	799130	806231	802961	0.45	cps
Terbium	159-2	9059660	9052313	9001882	9037952	0.35	cps
Terbium	159-1	19216251	19049905	18944721	19070292	0.72	cps
Thallium	203-1	32215	33243	33109	32855	1.70	cps
Thallium	205-1	78733	78289	77736	78253	0.64	cps
Tin	118-1	133672	132529	129770	131990	1.52	cps
Titanium	47-1	24429	23470	23002	23634	3.08	cps
Uranium	238-1	100870	100532	99474	100292	0.73	cps
Vanadium	51-2	43845	43200	44089	43711	1.05	cps
Yttrium	89-1	15713035	15604104	15618730	15645290	0.38	cps
Yttrium	89-2	2230497	2220598	2214196	2221764	0.37	cps
Zinc	66-2	4457	4331	4134	4307	3.78	cps
Zirconium	90-1	54948	52815	51845	53203	2.98	cps

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LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	PB98150BS	Instrumnet Name :	P7
Client Sample ID :	PB98150BS	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 13:30:20	DataFile Name :	020LCSE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Zirconium	91-1	11463	12031	11438	11644	2.88	cps

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On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2578-01	Instrumnet Name :	P7
Client Sample ID :	MH0AT5	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 13:33:50	DataFile Name :	021SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1225	1258	1358	1281	5.42	cps
Antimony	121-1	13315	13424	14541	13760	4.93	cps
Arsenic	75-2	7287	7168	6991	7149	2.09	cps
Barium	135-1	252878	252224	250792	251965	0.42	cps
Barium	137-1	440191	439754	440966	440303	0.14	cps
Beryllium	9-1	67	89	106	87	22.42	cps
Bismuth	209-2	6534495	6459002	6548131	6513876	0.74	cps
Bismuth	209-1	11430411	11521824	11632283	11528172	0.88	cps
Boron	10-1	146613	150955	151815	149794	1.86	cps
Boron	11-1	713610	730400	735962	726658	1.60	cps
Cadmium	111-1	1244	1229	1323	1265	4.00	cps
Cadmium	106-1	5268	4984	5310	5187	3.41	cps
Cadmium	108-1	79	79	79	79	0.00	cps
Calcium	43-1	7281491	7346267	7320189	7315982	0.45	cps
Calcium	44-1	117991298	117534019	118060653	117861990	0.24	cps
Chromium	52-2	4454	4614	4534	4534	1.76	cps
Cobalt	59-2	2070	2247	2134	2150	4.16	cps
Copper	63-2	23790	23496	24160	23815	1.40	cps
Dysprosium	156-1	725	700	767	731	4.61	cps
Dysprosium	156-2	380	423	370	391	7.25	cps
Erbium	164-2	53	57	47	52	9.75	cps
Erbium	164-1	125	108	83	106	19.87	cps
Gadolinium	160-1	1092	900	800	931	15.93	cps
Gadolinium	160-2	527	477	490	498	5.20	cps
Holmium	165-2	9114359	8929588	8967000	9003649	1.08	cps
Holmium	165-1	18387226	18555682	18372140	18438349	0.55	cps
Indium	115-1	14866542	14915530	14972524	14918199	0.36	cps
Indium	115-2	2734245	2732035	2753318	2739866	0.43	cps
Iron	56-2	95547	96219	95229	95665	0.53	cps
Iron	57-2	4868	4895	5229	4997	4.02	cps
Lead	206-1	3917	3862	3912	3897	0.79	cps
Lead	207-1	3456	3089	3095	3213	6.54	cps
Lead	208-1	15065	15109	14987	15054	0.41	cps
Lithium	6-1	1676093	1719937	1712161	1702730	1.37	cps
Magnesium	24-2	27193249	27072690	27154514	27140151	0.23	cps
Manganese	55-2	131925	132692	133462	132693	0.58	cps

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2578-01	Instrumnet Name :	P7
Client Sample ID :	MH0AT5	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 13:33:50	DataFile Name :	021SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Molybdenum	94-1	70951	70382	69118	70150	1.34	cps
Molybdenum	95-1	120044	117825	117353	118407	1.21	cps
Molybdenum	96-1	129987	129013	127575	128858	0.94	cps
Molybdenum	97-1	74043	73926	73817	73929	0.15	cps
Molybdenum	98-1	192198	191495	189731	191141	0.66	cps
Neodymium	150-1	60	60	80	67	17.32	cps
Neodymium	150-2	7	7	13	9	43.25	cps
Nickel	60-2	3080	2964	2944	2996	2.46	cps
Phosphorus	31-2	5285	5560	5593	5479	3.09	cps
Potassium	39-2	7399880	7261057	7332256	7331064	0.95	cps
Rhodium	103-1	13307256	13453243	13269840	13343446	0.73	cps
Rhodium	103-2	6325507	6276396	6382651	6328184	0.84	cps
Scandium	45-1	9548724	9590221	9444686	9527877	0.79	cps
Scandium	45-2	444475	437509	441296	441093	0.79	cps
Selenium	82-1	802	1146	1217	1055	21.02	cps
Selenium	77-2	60	37	87	61	40.94	cps
Selenium	78-2	300	315	278	298	6.27	cps
Silicon	28-1	110018482	110772223	111628636	110806447	0.73	cps
Silver	109-1	5651	7060	7769	6827	15.79	cps
Silver	107-1	6493	7769	8736	7666	14.67	cps
Sodium	23-2	189704913	185215367	188042746	187654342	1.21	cps
Strontium	86-1	6938097	6960514	7018243	6972285	0.59	cps
Strontium	88-1	60458541	60274489	60084456	60272495	0.31	cps
Sulfur	34-1	8266617	8252885	8324335	8281279	0.46	cps
Terbium	159-2	8846037	8792113	8858033	8832061	0.40	cps
Terbium	159-1	18795385	18900456	18927309	18874383	0.37	cps
Thallium	203-1	942	883	942	922	3.65	cps
Thallium	205-1	2609	2350	2200	2386	8.66	cps
Tin	118-1	2367	2625	3067	2686	13.18	cps
Titanium	47-1	2559	2884	2942	2795	7.39	cps
Uranium	238-1	834337	823045	830696	829359	0.69	cps
Vanadium	51-2	22631	22938	22971	22847	0.82	cps
Yttrium	89-1	15248877	15393686	15445751	15362771	0.66	cps
Yttrium	89-2	2159492	2135431	2169751	2154891	0.82	cps
Zinc	66-2	9737	9443	10274	9818	4.29	cps
Zirconium	90-1	8595	9228	10021	9281	7.70	cps

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2578-01	Instrumnet Name :	P7
Client Sample ID :	MH0AT5	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 13:33:50	DataFile Name :	021SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Zirconium	91-1	2017	1942	2109	2022	4.13	cps

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2578-02	Instrumnet Name :	P7
Client Sample ID :	MH0AT6	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 13:37:22	DataFile Name :	022SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1142	1417	1400	1320	11.69	cps
Antimony	121-1	12031	11972	12698	12234	3.29	cps
Arsenic	75-2	6824	6863	6744	6810	0.89	cps
Barium	135-1	252905	249407	251376	251229	0.70	cps
Barium	137-1	435981	438984	438861	437942	0.39	cps
Beryllium	9-1	67	56	78	67	16.66	cps
Bismuth	209-1	11759585	11616977	11650467	11675676	0.64	cps
Bismuth	209-2	6658987	6535942	6579120	6591350	0.95	cps
Boron	10-1	137789	139412	140800	139334	1.08	cps
Boron	11-1	664922	671822	679599	672114	1.09	cps
Cadmium	106-1	5835	5526	5518	5626	3.21	cps
Cadmium	108-1	75	54	92	74	25.52	cps
Cadmium	111-1	1434	1348	1336	1373	3.92	cps
Calcium	43-1	6573367	6481818	6481817	6512334	0.81	cps
Calcium	44-1	105924023	105342490	105191259	105485924	0.37	cps
Chromium	52-2	4204	4034	4264	4167	2.86	cps
Cobalt	59-2	2260	2327	2150	2246	3.97	cps
Copper	63-2	27085	27296	26898	27093	0.73	cps
Dysprosium	156-2	883	967	833	894	7.53	cps
Dysprosium	156-1	1717	1642	1517	1625	6.22	cps
Erbium	164-1	167	142	100	136	24.74	cps
Erbium	164-2	53	50	47	50	6.66	cps
Gadolinium	160-2	1130	997	957	1028	8.83	cps
Gadolinium	160-1	1917	2059	1900	1959	4.44	cps
Holmium	165-2	9117436	9058065	9095035	9090179	0.33	cps
Holmium	165-1	18719628	18556874	18605018	18627174	0.45	cps
Indium	115-1	15247379	15196432	15141428	15195080	0.35	cps
Indium	115-2	2764568	2763635	2745222	2757808	0.40	cps
Iron	56-2	120709	117803	119463	119325	1.22	cps
Iron	57-2	5384	5579	5535	5499	1.85	cps
Lead	206-1	5813	6302	6418	6178	5.20	cps
Lead	207-1	5362	5157	5068	5196	2.91	cps
Lead	208-1	23998	23692	24054	23915	0.81	cps
Lithium	6-1	1755786	1751714	1787367	1764956	1.11	cps
Magnesium	24-2	23075155	22823651	22689545	22862783	0.86	cps
Manganese	55-2	102152	101366	100614	101377	0.76	cps

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LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2578-02	Instrumnet Name :	P7
Client Sample ID :	MH0AT6	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 13:37:22	DataFile Name :	022SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Molybdenum	94-1	58889	58337	60529	59252	1.92	cps
Molybdenum	95-1	101081	99042	99604	99909	1.05	cps
Molybdenum	96-1	108527	105345	105555	106476	1.67	cps
Molybdenum	97-1	63291	60303	61450	61681	2.44	cps
Molybdenum	98-1	158868	160780	160298	159982	0.62	cps
Neodymium	150-1	67	80	73	73	9.09	cps
Neodymium	150-2	13	10	20	14	35.26	cps
Nickel	60-2	3097	3060	3050	3069	0.80	cps
Phosphorus	31-2	8403	8186	8695	8428	3.03	cps
Potassium	39-2	7083407	7000849	7031645	7038634	0.59	cps
Rhodium	103-2	6381865	6421869	6359592	6387775	0.49	cps
Rhodium	103-1	13530074	13412660	13625802	13522846	0.79	cps
Scandium	45-1	9688019	9614048	9587698	9629921	0.54	cps
Scandium	45-2	445894	438664	440473	441677	0.85	cps
Selenium	77-2	50	47	70	56	22.71	cps
Selenium	78-2	300	248	257	269	10.30	cps
Selenium	82-1	713	820	1224	919	29.34	cps
Silicon	28-1	97512894	97170242	96535000	97072712	0.51	cps
Silver	109-1	7235	7344	7319	7299	0.78	cps
Silver	107-1	7235	7953	8069	7752	5.82	cps
Sodium	23-2	169761066	168449179	168802670	169004305	0.40	cps
Strontium	86-1	5926296	5866652	5923828	5905592	0.57	cps
Strontium	88-1	50787381	50471173	51081944	50780166	0.60	cps
Sulfur	34-1	7130330	6995607	6999505	7041814	1.09	cps
Terbium	159-1	19193317	19021674	19122904	19112632	0.45	cps
Terbium	159-2	9060918	8854437	8844318	8919891	1.37	cps
Thallium	203-1	883	900	908	897	1.42	cps
Thallium	205-1	2000	2059	2042	2034	1.48	cps
Tin	118-1	4226	4209	4568	4334	4.67	cps
Titanium	47-1	3317	3134	3526	3326	5.89	cps
Uranium	238-1	670010	662763	665734	666169	0.55	cps
Vanadium	51-2	18809	18815	19233	18952	1.28	cps
Yttrium	89-2	2175129	2151616	2162863	2163203	0.54	cps
Yttrium	89-1	15707210	15620340	15643299	15656950	0.29	cps
Zinc	66-2	25766	25763	25312	25614	1.02	cps
Zirconium	90-1	5260	6135	6277	5890	9.35	cps

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LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2578-02	Instrumnet Name :	P7
Client Sample ID :	MH0AT6	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 13:37:22	DataFile Name :	022SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Zirconium	91-1	1367	1550	1225	1381	11.80	cps

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LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2578-03	Instrumnet Name :	P7
Client Sample ID :	MH0AT6D	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 13:40:53	DataFile Name :	023SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1700	1358	1133	1397	20.42	cps
Antimony	121-1	12356	12364	12639	12453	1.30	cps
Arsenic	75-2	6811	6883	6765	6820	0.88	cps
Barium	135-1	250339	253541	253166	252349	0.69	cps
Barium	137-1	443733	441544	442354	442544	0.25	cps
Beryllium	9-1	72	94	50	72	30.77	cps
Bismuth	209-1	11712537	11653383	11648720	11671547	0.30	cps
Bismuth	209-2	6520220	6556975	6592358	6556518	0.55	cps
Boron	10-1	137991	138631	138646	138423	0.27	cps
Boron	11-1	660142	669607	681395	670382	1.59	cps
Cadmium	106-1	5518	5185	5176	5293	3.68	cps
Cadmium	108-1	54	79	63	65	19.50	cps
Cadmium	111-1	1354	1298	1223	1292	5.11	cps
Calcium	43-1	6476518	6541038	6493926	6503827	0.51	cps
Calcium	44-1	104900902	105660377	104042667	104867982	0.77	cps
Chromium	52-2	4167	4287	4224	4226	1.42	cps
Cobalt	59-2	2260	2187	2154	2200	2.48	cps
Copper	63-2	27920	28171	28491	28194	1.02	cps
Dysprosium	156-2	857	933	877	889	4.47	cps
Dysprosium	156-1	1584	1575	1717	1625	4.89	cps
Erbium	164-1	117	142	150	136	12.75	cps
Erbium	164-2	47	50	20	39	42.28	cps
Gadolinium	160-2	1077	1010	1087	1058	3.94	cps
Gadolinium	160-1	2059	1875	1942	1959	4.74	cps
Holmium	165-2	8967460	9075357	9170953	9071257	1.12	cps
Holmium	165-1	18787765	18807804	18624386	18739985	0.54	cps
Indium	115-1	15083280	15124573	15166934	15124929	0.28	cps
Indium	115-2	2755978	2760798	2757862	2758213	0.09	cps
Iron	56-2	119337	119582	120098	119672	0.32	cps
Iron	57-2	5168	5396	5423	5329	2.63	cps
Lead	206-1	5518	5701	5701	5640	1.88	cps
Lead	207-1	4784	4695	4745	4742	0.94	cps
Lead	208-1	22419	22497	22275	22397	0.50	cps
Lithium	6-1	1766800	1775795	1782903	1775166	0.45	cps
Magnesium	24-2	22607483	22729256	22795392	22710710	0.42	cps
Manganese	55-2	100561	102246	100104	100970	1.12	cps

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LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2578-03	Instrumnet Name :	P7
Client Sample ID :	MH0AT6D	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 13:40:53	DataFile Name :	023SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Molybdenum	94-1	57115	57400	58027	57514	0.81	cps
Molybdenum	95-1	100537	100788	98413	99913	1.31	cps
Molybdenum	96-1	106806	108117	107924	107616	0.66	cps
Molybdenum	97-1	61516	60705	60362	60861	0.97	cps
Molybdenum	98-1	158077	157057	157907	157680	0.35	cps
Neodymium	150-1	40	107	107	84	45.58	cps
Neodymium	150-2	10	20	20	17	34.64	cps
Nickel	60-2	3060	3190	3124	3125	2.08	cps
Phosphorus	31-2	9203	8294	8670	8722	5.24	cps
Potassium	39-2	7029679	7027431	6967963	7008358	0.50	cps
Rhodium	103-2	6352949	6355243	6376928	6361707	0.21	cps
Rhodium	103-1	13538012	13418785	13412369	13456388	0.53	cps
Scandium	45-1	9646071	9606546	9561348	9604655	0.44	cps
Scandium	45-2	438003	439660	435231	437631	0.51	cps
Selenium	77-2	80	60	43	61	30.04	cps
Selenium	78-2	322	252	272	282	12.84	cps
Selenium	82-1	1093	866	925	961	12.27	cps
Silicon	28-1	97451188	97240763	97782008	97491320	0.28	cps
Silver	109-1	5977	6502	6760	6413	6.23	cps
Silver	107-1	7019	6685	6660	6788	2.95	cps
Sodium	23-2	167814833	168963337	168383545	168387238	0.34	cps
Strontium	86-1	5901129	5925249	5925612	5917330	0.24	cps
Strontium	88-1	50965497	50596345	50545673	50702505	0.45	cps
Sulfur	34-1	7089381	7136091	7046936	7090803	0.63	cps
Terbium	159-1	19153452	19119231	19210461	19161048	0.24	cps
Terbium	159-2	8918468	8916911	9031537	8955639	0.73	cps
Thallium	203-1	867	808	625	767	16.45	cps
Thallium	205-1	2034	1875	1800	1903	6.26	cps
Tin	118-1	4218	4476	4584	4426	4.26	cps
Titanium	47-1	3501	3426	3417	3448	1.33	cps
Uranium	238-1	671700	666099	672458	670086	0.52	cps
Vanadium	51-2	18989	19236	19059	19095	0.67	cps
Yttrium	89-2	2144311	2153351	2162942	2153535	0.43	cps
Yttrium	89-1	15706654	15579320	15529275	15605083	0.59	cps
Zinc	66-2	26838	27095	26601	26845	0.92	cps
Zirconium	90-1	4276	4534	4434	4415	2.95	cps

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LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2578-03	Instrumnet Name :	P7
Client Sample ID :	MH0AT6D	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 13:40:53	DataFile Name :	023SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Zirconium	91-1	1067	1050	1158	1092	5.34	cps

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2578-02LX5	Instrumnet Name :	P7
Client Sample ID :	MH0AT6L	Dilution Factor :	5
Date & Time Acquired ::	2017-04-18 13:44:25	DataFile Name :	024SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	2100	2467	2142	2236	8.98	cps
Antimony	121-1	3242	3717	3934	3631	9.75	cps
Arsenic	75-2	1278	1361	1506	1382	8.34	cps
Barium	135-1	50577	48837	49949	49788	1.77	cps
Barium	137-1	87441	86888	87886	87405	0.57	cps
Beryllium	9-1	89	50	89	76	29.57	cps
Bismuth	209-2	6826542	6842374	6872689	6847202	0.34	cps
Bismuth	209-1	12085843	12198467	12083726	12122679	0.54	cps
Boron	10-1	32878	33313	33355	33182	0.80	cps
Boron	11-1	157959	160459	161084	159834	1.03	cps
Cadmium	106-1	5318	5885	5610	5604	5.06	cps
Cadmium	108-1	17	33	25	25	33.32	cps
Cadmium	111-1	1108	1224	1178	1170	4.99	cps
Calcium	43-1	1278315	1285606	1290442	1284787	0.48	cps
Calcium	44-1	20776457	21370542	21426479	21191159	1.70	cps
Chromium	52-2	1653	1607	1703	1655	2.92	cps
Cobalt	59-2	587	500	473	520	11.40	cps
Copper	63-2	13103	12879	12782	12921	1.27	cps
Dysprosium	156-2	210	150	157	172	19.10	cps
Dysprosium	156-1	283	267	225	258	11.63	cps
Erbium	164-1	17	67	92	58	65.46	cps
Erbium	164-2	30	30	50	37	31.49	cps
Gadolinium	160-2	233	320	303	286	16.10	cps
Gadolinium	160-1	475	633	425	511	21.28	cps
Holmium	165-1	18737793	18666146	18626000	18676646	0.30	cps
Holmium	165-2	9061934	9033789	9061997	9052573	0.18	cps
Indium	115-2	2774814	2745817	2777009	2765880	0.63	cps
Indium	115-1	15067902	15294222	15213409	15191844	0.75	cps
Iron	56-2	32041	32275	32520	32279	0.74	cps
Iron	57-2	1267	1050	1289	1202	10.98	cps
Lead	206-1	2778	3050	2750	2860	5.80	cps
Lead	207-1	2250	2234	2161	2215	2.13	cps
Lead	208-1	10313	10513	10591	10472	1.37	cps
Lithium	6-1	1675733	1664348	1678292	1672791	0.44	cps
Magnesium	24-2	4569869	4521343	4547928	4546380	0.53	cps
Manganese	55-2	19877	19944	20641	20154	2.10	cps

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LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2578-02LX5	Instrumnet Name :	P7
Client Sample ID :	MH0AT6L	Dilution Factor :	5
Date & Time Acquired ::	2017-04-18 13:44:25	DataFile Name :	024SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Molybdenum	94-1	11947	12356	12906	12403	3.88	cps
Molybdenum	95-1	20841	20824	21433	21033	1.65	cps
Molybdenum	96-1	22727	23019	23119	22955	0.89	cps
Molybdenum	97-1	13132	13265	13248	13215	0.55	cps
Molybdenum	98-1	34367	34259	33473	34033	1.43	cps
Neodymium	150-2	3	3	13	7	86.65	cps
Neodymium	150-1	27	27	7	20	57.73	cps
Nickel	60-2	837	933	887	886	5.46	cps
Phosphorus	31-2	2034	2409	2050	2164	9.79	cps
Potassium	39-2	1444755	1420352	1446230	1437112	1.01	cps
Rhodium	103-2	6630841	6639738	6637834	6636138	0.07	cps
Rhodium	103-1	14015420	13939588	13987525	13980844	0.27	cps
Scandium	45-1	9533744	9631266	9635928	9600313	0.60	cps
Scandium	45-2	438231	438893	442142	439755	0.48	cps
Selenium	82-1	-227	160	129	20	1052.97	cps
Selenium	77-2	10	20	17	16	32.73	cps
Selenium	78-2	167	126	157	150	14.24	cps
Silicon	28-1	19853761	20065412	20008748	19975974	0.55	cps
Silver	107-1	2467	2534	2867	2623	8.17	cps
Silver	109-1	2425	2542	2142	2370	8.68	cps
Sodium	23-2	34028687	34033356	34009440	34023828	0.04	cps
Strontium	86-1	1144869	1138193	1159298	1147454	0.94	cps
Strontium	88-1	10002637	9983594	10072667	10019633	0.47	cps
Sulfur	34-1	2554002	2563893	2564474	2560790	0.23	cps
Terbium	159-2	8977014	8902950	8997154	8959039	0.55	cps
Terbium	159-1	19247146	19347626	19211760	19268844	0.37	cps
Thallium	203-1	258	217	200	225	13.35	cps
Thallium	205-1	825	575	758	720	17.99	cps
Tin	118-1	1934	2092	2009	2011	3.94	cps
Titanium	47-1	900	992	933	942	4.93	cps
Uranium	238-1	131870	131247	132702	131940	0.55	cps
Vanadium	51-2	3861	3851	4181	3964	4.74	cps
Yttrium	89-1	15389383	15452953	15615618	15485984	0.75	cps
Yttrium	89-2	2171175	2159100	2170077	2166784	0.31	cps
Zinc	66-2	5811	5961	5885	5886	1.27	cps
Zirconium	90-1	1700	1792	1625	1706	4.89	cps

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LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2578-02LX5	Instrumnet Name :	P7
Client Sample ID :	MH0AT6L	Dilution Factor :	5
Date & Time Acquired ::	2017-04-18 13:44:25	DataFile Name :	024SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Zirconium	91-1	317	283	392	331	16.79	cps

Reviewed By:jaswal
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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2578-04	Instrumnet Name :	P7
Client Sample ID :	MH0AT6S	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 13:47:54	DataFile Name :	025SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	336494	334872	336995	336120	0.33	cps
Antimony	121-1	2025398	2027072	2017742	2023404	0.25	cps
Arsenic	75-2	35818	35248	35438	35501	0.82	cps
Barium	135-1	9361371	9315121	9409147	9361880	0.50	cps
Barium	137-1	16386596	16252078	16220162	16286279	0.54	cps
Beryllium	9-1	163780	164773	165156	164569	0.43	cps
Bismuth	209-2	6620044	6607962	6666670	6631559	0.47	cps
Bismuth	209-1	11952758	11959021	12007016	11972931	0.25	cps
Boron	10-1	136537	140103	143652	140097	2.54	cps
Boron	11-1	665114	663061	672840	667005	0.77	cps
Cadmium	106-1	27469	26492	26926	26963	1.82	cps
Cadmium	108-1	15763	15988	16164	15972	1.26	cps
Cadmium	111-1	236295	235731	236177	236068	0.13	cps
Calcium	43-1	6638806	6567861	6586968	6597878	0.56	cps
Calcium	44-1	106185782	105543940	106687715	106139145	0.54	cps
Chromium	52-2	1238795	1242858	1241791	1241148	0.17	cps
Cobalt	59-2	5034469	5044356	5031009	5036611	0.14	cps
Copper	63-2	1844681	1862853	1866402	1857979	0.63	cps
Dysprosium	156-2	870	913	873	886	2.72	cps
Dysprosium	156-1	1642	1709	1767	1706	3.67	cps
Erbium	164-1	75	108	133	106	27.73	cps
Erbium	164-2	73	77	63	71	9.76	cps
Gadolinium	160-2	947	943	973	954	1.72	cps
Gadolinium	160-1	2142	1892	1975	2003	6.36	cps
Holmium	165-1	19204458	19117930	18871283	19064557	0.91	cps
Holmium	165-2	9175238	9094470	9204270	9157993	0.62	cps
Indium	115-2	2734608	2748242	2771911	2751587	0.69	cps
Indium	115-1	15354329	15576486	15215404	15382073	1.18	cps
Iron	56-2	5133624	5148609	5138493	5140242	0.15	cps
Iron	57-2	127768	129724	129920	129137	0.92	cps
Lead	208-1	1220770	1213066	1212769	1215535	0.37	cps
Lead	206-1	303377	298208	301220	300935	0.86	cps
Lead	207-1	269265	268200	268524	268663	0.20	cps
Lithium	6-1	1766522	1755991	1776157	1766223	0.57	cps
Magnesium	24-2	22774599	22825144	22768643	22789462	0.14	cps
Manganese	55-2	1749253	1751118	1760585	1753652	0.35	cps

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2578-04	Instrumnet Name :	P7
Client Sample ID :	MH0AT6S	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 13:47:54	DataFile Name :	025SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Molybdenum	94-1	58538	57893	57417	57949	0.97	cps
Molybdenum	95-1	100452	99520	96198	98723	2.26	cps
Molybdenum	96-1	106295	105430	106319	106015	0.48	cps
Molybdenum	97-1	63107	61617	61693	62139	1.35	cps
Molybdenum	98-1	161591	161631	156763	159995	1.75	cps
Neodymium	150-1	540	500	440	493	10.20	cps
Neodymium	150-2	50	43	43	46	8.45	cps
Nickel	60-2	1333193	1334591	1331850	1333211	0.10	cps
Phosphorus	31-2	8711	8720	8153	8528	3.81	cps
Potassium	39-2	6976292	6977329	6944691	6966104	0.27	cps
Rhodium	103-2	6491242	6418668	6484264	6464725	0.62	cps
Rhodium	103-1	13694103	13704780	13422431	13607104	1.18	cps
Scandium	45-1	9804414	9771364	9715179	9763652	0.46	cps
Scandium	45-2	445672	442190	447806	445222	0.64	cps
Selenium	77-2	1480	1347	1443	1423	4.84	cps
Selenium	78-2	5042	5144	5247	5144	2.00	cps
Selenium	82-1	32913	31819	32317	32350	1.69	cps
Silicon	28-1	99419798	98381494	97999621	98600304	0.75	cps
Silver	109-1	1443062	1437619	1433429	1438037	0.34	cps
Silver	107-1	1507745	1492566	1491010	1497107	0.62	cps
Sodium	23-2	169325254	168436404	168215183	168658947	0.35	cps
Strontium	86-1	5972885	5993004	5841171	5935687	1.39	cps
Strontium	88-1	51255008	51754009	50570768	51193262	1.16	cps
Sulfur	34-1	7275062	7175423	7166992	7205825	0.83	cps
Terbium	159-1	19578686	19526626	19659681	19588331	0.34	cps
Terbium	159-2	8977838	8866167	9077205	8973737	1.18	cps
Thallium	203-1	916486	912071	920113	916223	0.44	cps
Thallium	205-1	2210146	2199528	2196315	2201996	0.33	cps
Tin	118-1	4151	4267	4251	4223	1.49	cps
Titanium	47-1	3717	3959	3401	3692	7.59	cps
Uranium	238-1	676701	663192	678847	672914	1.26	cps
Vanadium	51-2	2556754	2550149	2558378	2555094	0.17	cps
Yttrium	89-2	2170782	2164996	2204818	2180199	0.99	cps
Yttrium	89-1	16066916	16099964	15832309	15999730	0.91	cps
Zinc	66-2	540643	531969	539041	537218	0.86	cps
Zirconium	90-1	3717	4534	4243	4165	9.94	cps

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2578-04	Instrumnet Name :	P7
Client Sample ID :	MH0AT6S	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 13:47:54	DataFile Name :	025SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Zirconium	91-1	983	1058	1267	1103	13.31	cps

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2578-02A	Instrumnet Name :	P7
Client Sample ID :	MH0AT6A	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 13:51:24	DataFile Name :	026SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1175	1753	1142	1356	25.32	cps
Antimony	121-1	13132	13257	13482	13290	1.34	cps
Arsenic	75-2	6746	6642	6640	6676	0.91	cps
Barium	135-1	257232	255634	254709	255858	0.50	cps
Barium	137-1	448936	448433	439917	445762	1.14	cps
Beryllium	9-1	78	72	39	63	33.40	cps
Bismuth	209-1	11867399	11700111	11806817	11791442	0.72	cps
Bismuth	209-2	6559812	6516276	6558717	6544935	0.38	cps
Boron	10-1	138664	143610	141795	141356	1.77	cps
Boron	11-1	669923	692146	687075	683048	1.70	cps
Cadmium	106-1	5085	5335	5543	5321	4.31	cps
Cadmium	108-1	79	100	67	82	20.55	cps
Cadmium	111-1	1199	1365	1331	1298	6.78	cps
Calcium	43-1	6552853	6567073	6564728	6561551	0.12	cps
Calcium	44-1	107318236	106327673	106877444	106841118	0.46	cps
Chromium	52-2	4521	4657	4257	4479	4.54	cps
Cobalt	59-2	2367	2357	2190	2305	4.31	cps
Copper	63-2	29770	29760	30115	29882	0.67	cps
Dysprosium	156-2	963	943	993	967	2.60	cps
Dysprosium	156-1	1750	1625	1408	1595	10.84	cps
Erbium	164-1	100	92	92	94	5.09	cps
Erbium	164-2	47	30	30	36	27.07	cps
Gadolinium	160-2	1050	1123	1103	1092	3.47	cps
Gadolinium	160-1	2075	2059	1875	2003	5.54	cps
Holmium	165-2	8987919	9063257	9086979	9046052	0.57	cps
Holmium	165-1	18747892	18989949	18687321	18808387	0.85	cps
Indium	115-1	15371344	15287270	15178987	15279200	0.63	cps
Indium	115-2	2740894	2728229	2739688	2736271	0.26	cps
Iron	56-2	121900	120709	120826	121145	0.54	cps
Iron	57-2	5257	5301	5512	5357	2.55	cps
Lead	206-1	5996	6057	5651	5901	3.71	cps
Lead	207-1	4951	5096	4718	4921	3.87	cps
Lead	208-1	23270	23398	22647	23105	1.74	cps
Lithium	6-1	1823978	1826970	1838523	1829824	0.42	cps
Magnesium	24-2	22671277	22464782	22598645	22578234	0.46	cps
Manganese	55-2	99930	98497	99071	99166	0.73	cps

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2578-02A	Instrumnet Name :	P7
Client Sample ID :	MH0AT6A	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 13:51:24	DataFile Name :	026SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Molybdenum	94-1	56940	57525	58914	57793	1.76	cps
Molybdenum	95-1	100142	101216	98850	100069	1.18	cps
Molybdenum	96-1	105799	107435	106756	106664	0.77	cps
Molybdenum	97-1	60922	62848	61994	61921	1.56	cps
Molybdenum	98-1	160048	160477	159727	160084	0.24	cps
Neodymium	150-1	60	73	93	76	22.21	cps
Neodymium	150-2	7	7	33	16	98.94	cps
Nickel	60-2	3257	3154	3147	3186	1.94	cps
Phosphorus	31-2	8611	8286	8728	8542	2.68	cps
Potassium	39-2	6930961	6957128	6988687	6958925	0.42	cps
Rhodium	103-2	6417927	6447983	6460360	6442090	0.34	cps
Rhodium	103-1	13539574	13522387	13494450	13518804	0.17	cps
Scandium	45-1	9794773	9728137	9684627	9735845	0.57	cps
Scandium	45-2	435176	435394	435265	435278	0.03	cps
Selenium	77-2	77	40	63	60	30.93	cps
Selenium	78-2	263	261	322	282	12.32	cps
Selenium	82-1	1034	1110	957	1034	7.41	cps
Silicon	28-1	99596177	98857288	97768573	98740679	0.93	cps
Silver	109-1	36089	36799	36941	36610	1.25	cps
Silver	107-1	37994	38504	38595	38364	0.84	cps
Sodium	23-2	169066075	166666429	168528387	168086963	0.75	cps
Strontium	86-1	6011966	5934765	5942946	5963226	0.71	cps
Strontium	88-1	51539145	51161583	50989608	51230112	0.55	cps
Sulfur	34-1	7283358	7282532	7267486	7277792	0.12	cps
Terbium	159-1	19374311	19466459	19338970	19393247	0.34	cps
Terbium	159-2	8876420	8907577	8958448	8914148	0.46	cps
Thallium	203-1	925	867	933	908	4.00	cps
Thallium	205-1	2067	1892	2000	1986	4.45	cps
Tin	118-1	4701	4768	4709	4726	0.77	cps
Titanium	47-1	3342	3225	3534	3367	4.62	cps
Uranium	238-1	672012	672178	670503	671564	0.14	cps
Vanadium	51-2	19119	19300	19443	19287	0.84	cps
Yttrium	89-2	2139999	2132359	2132869	2135076	0.20	cps
Yttrium	89-1	15775395	15683705	15554946	15671349	0.71	cps
Zinc	66-2	29283	30302	29837	29807	1.71	cps
Zirconium	90-1	3951	4276	3992	4073	4.34	cps

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2578-02A	Instrumnet Name :	P7
Client Sample ID :	MH0AT6A	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 13:51:24	DataFile Name :	026SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Zirconium	91-1	875	792	1008	892	12.26	cps

Reviewed By:jaswal
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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	PB98150BSRE	Instrumnet Name :	P7
Client Sample ID :	PB98150BSRE	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 13:59:37	DataFile Name :	027LCSE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	5410	5593	5293	5432	2.79	cps
Antimony	121-1	61619	61602	61670	61630	0.06	cps
Arsenic	75-2	1178	1233	1159	1190	3.24	cps
Barium	135-1	70203	71392	70462	70686	0.88	cps
Barium	137-1	121915	121512	122687	122038	0.49	cps
Beryllium	9-1	5529	5657	5362	5516	2.68	cps
Bismuth	209-1	12221770	12273431	12428797	12307999	0.88	cps
Bismuth	209-2	7195181	7192359	7082367	7156636	0.90	cps
Boron	10-1	9712	9545	9887	9715	1.76	cps
Boron	11-1	45160	47994	45954	46369	3.15	cps
Cadmium	106-1	5810	5826	5776	5804	0.44	cps
Cadmium	108-1	350	317	367	344	7.39	cps
Cadmium	111-1	4244	4051	4144	4146	2.33	cps
Calcium	43-1	42880	43633	44142	43552	1.46	cps
Calcium	44-1	741147	743187	743734	742690	0.18	cps
Chromium	52-2	21563	20912	20671	21049	2.19	cps
Cobalt	59-2	16122	17040	16830	16664	2.89	cps
Copper	63-2	32677	33054	33208	32980	0.83	cps
Dysprosium	156-2	7	3	7	6	34.70	cps
Dysprosium	156-1	25	8	33	22	57.29	cps
Erbium	164-1	58	67	92	72	24.02	cps
Erbium	164-2	17	17	17	17	0.00	cps
Gadolinium	160-2	87	27	63	59	51.36	cps
Gadolinium	160-1	208	192	142	181	19.22	cps
Holmium	165-2	8964766	9066288	8887389	8972814	1.00	cps
Holmium	165-1	18552729	18537506	18379365	18489866	0.52	cps
Indium	115-1	15142711	15065362	15137720	15115264	0.29	cps
Indium	115-2	2740596	2753264	2732482	2742114	0.38	cps
Iron	56-2	1626314	1618923	1617266	1620834	0.30	cps
Iron	57-2	41175	39860	39610	40215	2.09	cps
Lead	206-1	25720	25570	25102	25464	1.27	cps
Lead	207-1	23271	22525	23705	23167	2.58	cps
Lead	208-1	103329	103488	104066	103628	0.37	cps
Lithium	6-1	1636764	1631002	1651368	1639711	0.64	cps
Magnesium	24-2	354727	358570	356586	356628	0.54	cps
Manganese	55-2	5634	5695	5568	5632	1.13	cps

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	PB98150BSRE	Instrumnet Name :	P7
Client Sample ID :	PB98150BSRE	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 13:59:37	DataFile Name :	027LCSE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Molybdenum	94-1	56679	54706	54497	55294	2.18	cps
Molybdenum	95-1	70341	68213	69026	69193	1.55	cps
Molybdenum	96-1	77938	76907	74880	76575	2.03	cps
Molybdenum	97-1	44236	43224	42322	43261	2.21	cps
Molybdenum	98-1	110569	111023	109082	110225	0.92	cps
Neodymium	150-1	20	27	0	16	89.22	cps
Neodymium	150-2	0	0	0	0	0.00	cps
Nickel	60-2	5088	4934	5004	5009	1.53	cps
Phosphorus	31-2	517	458	508	494	6.38	cps
Potassium	39-2	405522	406607	403843	405324	0.34	cps
Rhodium	103-2	6732210	6798816	6665538	6732188	0.99	cps
Rhodium	103-1	14147376	13862162	14171917	14060485	1.22	cps
Scandium	45-1	9539643	9452764	9465747	9486051	0.49	cps
Scandium	45-2	435478	433981	437918	435792	0.46	cps
Selenium	77-2	100	107	117	108	7.78	cps
Selenium	78-2	469	459	524	484	7.24	cps
Selenium	82-1	2498	2242	2454	2398	5.71	cps
Silicon	28-1	605143	602766	604101	604003	0.20	cps
Silver	109-1	38202	38478	38838	38506	0.83	cps
Silver	107-1	38579	38904	40242	39242	2.25	cps
Sodium	23-2	742806	747237	746354	745466	0.31	cps
Strontium	86-1	16927	16593	16936	16819	1.16	cps
Strontium	88-1	86175	84541	84356	85024	1.18	cps
Sulfur	34-1	880161	885251	874428	879947	0.62	cps
Terbium	159-1	18816919	18713046	19108694	18879553	1.09	cps
Terbium	159-2	8963087	8885495	8779408	8875997	1.04	cps
Thallium	203-1	30695	30010	30611	30439	1.23	cps
Thallium	205-1	73001	72431	72012	72482	0.68	cps
Tin	118-1	120287	121463	119428	120393	0.85	cps
Titanium	47-1	20456	21625	21241	21107	2.82	cps
Uranium	238-1	93421	93907	94218	93849	0.43	cps
Vanadium	51-2	39225	39697	38938	39287	0.98	cps
Yttrium	89-2	2141746	2135339	2136618	2137901	0.16	cps
Yttrium	89-1	15462271	15478800	15577329	15506133	0.40	cps
Zinc	66-2	3997	4097	3857	3984	3.03	cps
Zirconium	90-1	46384	45432	43358	45058	3.43	cps

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	PB98150BSRE	Instrumnet Name :	P7
Client Sample ID :	PB98150BSRE	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 13:59:37	DataFile Name :	027LCSE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Zirconium	91-1	10763	10429	9670	10287	5.44	cps

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	CCV64	Instrumnet Name :	P7
Client Sample ID :	CCV64	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 14:03:39	DataFile Name :	028CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1474441	1473060	1469913	1472472	0.16	cps
Antimony	121-1	8311552	8327817	8078010	8239126	1.70	cps
Arsenic	75-2	308469	309026	308391	308629	0.11	cps
Barium	135-1	9859496	9957711	9756268	9857825	1.02	cps
Barium	137-1	17093147	17221023	17002588	17105586	0.64	cps
Beryllium	9-1	1407453	1412646	1393891	1404663	0.69	cps
Bismuth	209-1	11633796	11561059	11546923	11580593	0.40	cps
Bismuth	209-2	6539217	6537201	6563700	6546706	0.23	cps
Boron	10-1	204455	208527	206053	206345	0.99	cps
Boron	11-1	978529	991893	982640	984354	0.70	cps
Cadmium	111-1	2024568	2055360	2024850	2034926	0.87	cps
Cadmium	106-1	241634	238596	240601	240277	0.64	cps
Cadmium	108-1	158862	159599	157459	158640	0.69	cps
Calcium	43-1	2366125	2407784	2391743	2388551	0.88	cps
Calcium	44-1	39071852	39602714	39049363	39241310	0.80	cps
Chromium	52-2	2736679	2740242	2739428	2738783	0.07	cps
Cobalt	59-2	4408088	4452156	4436239	4432161	0.50	cps
Copper	63-2	6569617	6551100	6497623	6539447	0.57	cps
Dysprosium	156-2	27	33	60	40	44.09	cps
Dysprosium	156-1	183	183	183	183	0.00	cps
Erbium	164-1	100	125	92	106	16.44	cps
Erbium	164-2	10	23	30	21	48.24	cps
Gadolinium	160-2	97	77	80	84	12.69	cps
Gadolinium	160-1	133	158	242	178	31.91	cps
Holmium	165-1	17822331	17880585	17715571	17806162	0.47	cps
Holmium	165-2	8798900	8727880	8684728	8737169	0.66	cps
Indium	115-2	2624517	2618097	2654312	2632309	0.73	cps
Indium	115-1	14323103	14506124	14416243	14415157	0.63	cps
Iron	56-2	112073136	112765241	112386664	112408347	0.31	cps
Iron	57-2	2725460	2740460	2743761	2736560	0.36	cps
Lead	206-1	6423806	6465814	6417166	6435595	0.41	cps
Lead	207-1	5844617	5883655	5863539	5863937	0.33	cps
Lead	208-1	26146805	26418744	26368065	26311205	0.55	cps
Lithium	6-1	1558626	1551873	1539488	1549996	0.63	cps
Magnesium	24-2	19401470	19457122	19574461	19477684	0.45	cps
Manganese	55-2	2938072	2959534	2938452	2945352	0.42	cps

Reviewed By:jaswal
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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	CCV64	Instrumnet Name :	P7
Client Sample ID :	CCV64	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 14:03:39	DataFile Name :	028CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Molybdenum	94-1	7483117	7526665	7501360	7503714	0.29	cps
Molybdenum	95-1	4007886	4005565	3966035	3993162	0.59	cps
Molybdenum	96-1	5151245	5159619	5147543	5152802	0.12	cps
Molybdenum	97-1	2458254	2483925	2465237	2469138	0.54	cps
Molybdenum	98-1	6531199	6587682	6605594	6574825	0.59	cps
Neodymium	150-1	707	640	573	640	10.42	cps
Neodymium	150-2	70	70	53	64	14.93	cps
Nickel	60-2	1168067	1184962	1179305	1177445	0.73	cps
Phosphorus	31-2	88713	90792	89938	89814	1.16	cps
Potassium	39-2	9615329	9799210	9783928	9732822	1.05	cps
Rhodium	103-2	6295007	6267062	6239396	6267155	0.44	cps
Rhodium	103-1	13120957	13143009	13100624	13121530	0.16	cps
Scandium	45-1	9091774	9257461	9172704	9173980	0.90	cps
Scandium	45-2	423313	427778	426283	425792	0.53	cps
Selenium	77-2	6335	6288	6188	6270	1.20	cps
Selenium	78-2	20309	20212	20665	20395	1.17	cps
Selenium	82-1	132334	132695	132218	132416	0.19	cps
Silicon	28-1	4933744	5052373	5063124	5016413	1.43	cps
Silver	109-1	10069115	10236197	10063700	10123004	0.97	cps
Silver	107-1	10616610	10568770	10507504	10564295	0.52	cps
Sodium	23-2	38712352	39163402	39267301	39047685	0.76	cps
Strontium	86-1	3000039	3023319	3001325	3008228	0.43	cps
Strontium	88-1	26318736	26420238	26347653	26362209	0.20	cps
Sulfur	34-1	1657453	1663295	1650641	1657130	0.38	cps
Terbium	159-1	18267645	18444059	18249202	18320302	0.59	cps
Terbium	159-2	8557461	8527837	8504987	8530095	0.31	cps
Thallium	203-1	8177234	8246611	8206960	8210268	0.42	cps
Thallium	205-1	19366331	19249442	19150272	19255348	0.56	cps
Tin	118-1	6830097	6926418	6845775	6867430	0.75	cps
Titanium	47-1	1171889	1188420	1181594	1180634	0.70	cps
Uranium	238-1	26697000	26793918	26994874	26828597	0.57	cps
Vanadium	51-2	2201290	2216095	2227023	2214803	0.58	cps
Yttrium	89-2	2072718	2078851	2091931	2081167	0.47	cps
Yttrium	89-1	14734263	14899514	14782494	14805424	0.57	cps
Zinc	66-2	916530	903947	906594	909024	0.73	cps
Zirconium	91-1	3133515	3170114	3151427	3151686	0.58	cps

Reviewed By:jaswal
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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	CCV64	Instrumnet Name :	P7
Client Sample ID :	CCV64	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 14:03:39	DataFile Name :	028CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Zirconium	90-1	14379378	14506068	14418136	14434528	0.45	cps

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	CCB64	Instrumnet Name :	P7
Client Sample ID :	CCB64	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 14:11:55	DataFile Name :	029CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	108	42	50	67	54.49	cps
Antimony	121-1	11614	16277	20141	16010	26.67	cps
Arsenic	75-2	91	104	94	96	6.94	cps
Barium	137-1	167	258	125	183	37.21	cps
Barium	135-1	92	192	158	147	34.59	cps
Beryllium	9-1	72	106	100	93	19.29	cps
Bismuth	209-1	12568489	12571097	12340435	12493340	1.06	cps
Bismuth	209-2	7141561	6938802	7178500	7086288	1.82	cps
Boron	10-1	2134	1850	2109	2031	7.73	cps
Boron	11-1	10337	9937	9503	9926	4.20	cps
Cadmium	111-1	993	971	1086	1017	6.01	cps
Cadmium	106-1	4859	4726	5326	4971	6.34	cps
Cadmium	108-1	21	33	21	25	28.87	cps
Calcium	43-1	550	533	625	569	8.57	cps
Calcium	44-1	26884	26934	27193	27004	0.61	cps
Chromium	52-2	937	880	710	842	14.01	cps
Cobalt	59-2	167	120	157	148	16.63	cps
Copper	63-2	6708	7079	7305	7031	4.29	cps
Dysprosium	156-1	8	17	17	14	34.67	cps
Dysprosium	156-2	0	3	0	1	173.21	cps
Erbium	164-2	30	27	17	24	28.38	cps
Erbium	164-1	33	50	67	50	33.34	cps
Gadolinium	160-1	158	75	158	131	36.85	cps
Gadolinium	160-2	47	47	57	50	11.55	cps
Holmium	165-2	8990405	9015441	9013875	9006574	0.16	cps
Holmium	165-1	18229471	18168138	18328926	18242179	0.44	cps
Indium	115-2	2728621	2741912	2729892	2733475	0.27	cps
Indium	115-1	15194402	15303756	15111343	15203167	0.63	cps
Iron	56-2	9009	8864	8669	8847	1.92	cps
Iron	57-2	217	222	194	211	6.96	cps
Lead	206-1	1778	1856	1822	1819	2.15	cps
Lead	207-1	1650	1589	1767	1669	5.41	cps
Lead	208-1	7268	7162	7623	7351	3.29	cps
Lithium	6-1	1594236	1600125	1615042	1603134	0.67	cps
Magnesium	24-2	308	200	225	244	23.21	cps
Manganese	55-2	123	107	77	102	23.14	cps

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	CCB64	Instrumnet Name :	P7
Client Sample ID :	CCB64	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 14:11:55	DataFile Name :	029CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Molybdenum	94-1	1275	1692	2134	1700	25.25	cps
Molybdenum	95-1	1375	2142	3267	2261	42.08	cps
Molybdenum	96-1	1709	2534	3184	2475	29.87	cps
Molybdenum	97-1	742	1358	1775	1292	40.25	cps
Molybdenum	98-1	2500	3292	4651	3481	31.25	cps
Neodymium	150-1	7	27	7	13	86.58	cps
Neodymium	150-2	0	0	0	0	0.00	cps
Nickel	60-2	503	377	450	443	14.34	cps
Phosphorus	31-2	608	525	458	531	14.17	cps
Potassium	39-2	54878	55772	56576	55742	1.52	cps
Rhodium	103-2	6674098	6626786	6659355	6653413	0.36	cps
Rhodium	103-1	14096626	13915693	14142345	14051555	0.85	cps
Scandium	45-1	9309685	9315433	9425269	9350129	0.70	cps
Scandium	45-2	432940	434280	433654	433624	0.15	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	111	113	143	122	14.45	cps
Selenium	82-1	-100	-17	-75	-64	-66.95	cps
Silicon	28-1	510242	508470	510282	509665	0.20	cps
Silver	109-1	525	500	483	503	4.17	cps
Silver	107-1	467	583	542	531	11.14	cps
Sodium	23-2	40932	40389	39453	40258	1.86	cps
Strontium	86-1	7361	7586	7236	7394	2.40	cps
Strontium	88-1	792	925	817	845	8.39	cps
Sulfur	34-1	810262	809661	800771	806898	0.66	cps
Terbium	159-1	19210406	18893871	19041730	19048669	0.83	cps
Terbium	159-2	8813106	8830920	8889988	8844671	0.46	cps
Thallium	203-1	525	450	367	447	17.71	cps
Thallium	205-1	1050	983	1025	1020	3.30	cps
Tin	118-1	1375	1533	1892	1600	16.54	cps
Titanium	47-1	167	250	233	217	20.35	cps
Uranium	238-1	292	225	317	278	17.06	cps
Vanadium	51-2	33	50	47	43	20.36	cps
Yttrium	89-2	2138828	2144769	2138159	2140585	0.17	cps
Yttrium	89-1	15302299	15403853	15377362	15361171	0.34	cps
Zinc	66-2	243	310	243	266	14.49	cps
Zirconium	90-1	1400	1208	1292	1300	7.39	cps

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	CCB64	Instrumnet Name :	P7
Client Sample ID :	CCB64	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 14:11:55	DataFile Name :	029CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Zirconium	91-1	267	225	233	242	9.12	cps

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	PB98211BL	Instrumnet Name :	P7
Client Sample ID :	PB98211BL	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 14:15:24	DataFile Name :	030SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	75	142	92	103	33.76	cps
Antimony	121-1	5109	5951	6927	5996	15.17	cps
Arsenic	75-2	59	67	104	77	31.11	cps
Barium	135-1	125	75	100	100	25.00	cps
Barium	137-1	150	225	158	178	23.12	cps
Beryllium	9-1	94	122	72	96	26.02	cps
Bismuth	209-1	12384382	12321377	12245121	12316960	0.57	cps
Bismuth	209-2	6930055	7173882	6928649	7010862	2.01	cps
Boron	10-1	1575	1742	1959	1759	10.93	cps
Boron	11-1	8311	8094	9337	8581	7.73	cps
Cadmium	106-1	5326	5468	5777	5524	4.17	cps
Cadmium	108-1	29	13	13	18	53.30	cps
Cadmium	111-1	1060	1107	1173	1113	5.08	cps
Calcium	43-1	517	500	508	508	1.64	cps
Calcium	44-1	27134	26925	26884	26981	0.50	cps
Chromium	52-2	823	750	843	806	6.10	cps
Cobalt	59-2	113	83	80	92	19.91	cps
Copper	63-2	6745	7132	7008	6962	2.84	cps
Dysprosium	156-2	7	7	7	7	0.00	cps
Dysprosium	156-1	17	17	25	19	24.73	cps
Erbium	164-1	42	58	50	50	16.67	cps
Erbium	164-2	20	30	23	24	20.83	cps
Gadolinium	160-2	57	37	60	51	24.69	cps
Gadolinium	160-1	100	100	183	128	37.65	cps
Holmium	165-2	8892300	9030571	8878845	8933905	0.94	cps
Holmium	165-1	18485182	18477254	18196913	18386449	0.89	cps
Indium	115-1	15049859	15120654	14946698	15039071	0.58	cps
Indium	115-2	2735002	2739858	2731358	2735406	0.16	cps
Iron	56-2	7424	8058	7780	7754	4.10	cps
Iron	57-2	150	211	222	194	20.00	cps
Lead	206-1	1850	1834	1934	1872	2.86	cps
Lead	207-1	1656	1695	1661	1671	1.26	cps
Lead	208-1	7045	7234	7118	7132	1.34	cps
Lithium	6-1	1599283	1604918	1588727	1597643	0.51	cps
Magnesium	24-2	250	267	208	242	12.43	cps
Manganese	55-2	67	63	77	69	10.08	cps

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	PB98211BL	Instrumnet Name :	P7
Client Sample ID :	PB98211BL	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 14:15:24	DataFile Name :	030SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Molybdenum	94-1	933	1075	1217	1075	13.18	cps
Molybdenum	95-1	983	1142	1625	1250	26.74	cps
Molybdenum	96-1	1150	1425	1834	1470	23.40	cps
Molybdenum	97-1	408	858	983	750	40.32	cps
Molybdenum	98-1	1300	1892	3017	2070	42.14	cps
Neodymium	150-1	13	7	13	11	34.61	cps
Neodymium	150-2	3	0	0	1	173.21	cps
Nickel	60-2	307	307	323	312	3.08	cps
Phosphorus	31-2	600	592	500	564	9.84	cps
Potassium	39-2	55805	57772	56918	56832	1.73	cps
Rhodium	103-2	6666048	6703596	6673053	6680899	0.30	cps
Rhodium	103-1	14005108	14131845	13960921	14032624	0.63	cps
Scandium	45-1	9448286	9327062	9300486	9358612	0.84	cps
Scandium	45-2	431115	431962	432325	431801	0.14	cps
Selenium	77-2	7	3	0	3	100.05	cps
Selenium	78-2	126	143	117	128	10.23	cps
Selenium	82-1	143	-34	327	145	124.21	cps
Silicon	28-1	506834	510111	509034	508660	0.33	cps
Silver	109-1	442	533	350	442	20.76	cps
Silver	107-1	517	408	425	450	12.96	cps
Sodium	23-2	39261	38960	39511	39244	0.70	cps
Strontium	86-1	7752	7119	7577	7483	4.37	cps
Strontium	88-1	742	750	817	769	5.34	cps
Sulfur	34-1	819284	836164	832458	829302	1.07	cps
Terbium	159-1	19006646	18919974	18940287	18955636	0.24	cps
Terbium	159-2	8857067	8833198	8826257	8838841	0.18	cps
Thallium	203-1	292	425	317	344	20.58	cps
Thallium	205-1	825	800	817	814	1.56	cps
Tin	118-1	1000	1408	1475	1295	19.87	cps
Titanium	47-1	208	150	167	175	17.17	cps
Uranium	238-1	142	150	142	144	3.33	cps
Vanadium	51-2	30	27	37	31	16.37	cps
Yttrium	89-2	2127594	2134258	2129298	2130383	0.16	cps
Yttrium	89-1	15176916	15458485	15257209	15297537	0.95	cps
Zinc	66-2	250	250	263	254	3.02	cps
Zirconium	90-1	1100	1117	1200	1139	4.70	cps

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	PB98211BL	Instrumnet Name :	P7
Client Sample ID :	PB98211BL	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 14:15:24	DataFile Name :	030SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Zirconium	91-1	225	267	283	258	11.63	cps

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2562-03	Instrumnet Name :	P7
Client Sample ID :	0206	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 14:18:53	DataFile Name :	031SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	87665	86475	85109	86416	1.48	cps
Antimony	121-1	362878	359777	358739	360465	0.60	cps
Arsenic	75-2	25554	25617	25905	25692	0.73	cps
Barium	135-1	3462081	3421998	3450847	3444975	0.60	cps
Barium	137-1	6024800	6001151	6159669	6061873	1.41	cps
Beryllium	9-1	52436	52485	50880	51934	1.76	cps
Bismuth	209-2	6883751	6939872	6893421	6905681	0.43	cps
Bismuth	209-1	12340742	12364759	12346525	12350675	0.10	cps
Boron	10-1	499259	500579	506641	502160	0.78	cps
Boron	11-1	2387216	2425616	2447823	2420218	1.27	cps
Cadmium	106-1	18830	18772	18454	18685	1.08	cps
Cadmium	108-1	9245	9528	9837	9537	3.11	cps
Cadmium	111-1	142353	141081	141851	141762	0.45	cps
Calcium	43-1	700	808	792	767	7.61	cps
Calcium	44-1	29731	29497	27952	29060	3.33	cps
Chromium	52-2	894502	895706	898595	896268	0.23	cps
Cobalt	59-2	210	173	180	188	10.40	cps
Copper	63-2	4296500	4261690	4293301	4283830	0.45	cps
Dysprosium	156-1	83	25	58	56	52.68	cps
Dysprosium	156-2	7	23	10	13	66.12	cps
Erbium	164-1	42	75	58	58	28.57	cps
Erbium	164-2	20	30	37	29	29.04	cps
Gadolinium	160-2	50	73	40	54	31.42	cps
Gadolinium	160-1	92	117	108	106	12.06	cps
Holmium	165-1	18446683	18437187	18561669	18481846	0.37	cps
Holmium	165-2	8816495	8900364	8921695	8879518	0.63	cps
Indium	115-1	15176299	14916113	15048666	15047026	0.86	cps
Indium	115-2	2698675	2731906	2722013	2717531	0.63	cps
Iron	56-2	6316404	6249310	6304466	6290060	0.57	cps
Iron	57-2	152444	153063	152719	152742	0.20	cps
Lead	206-1	323851	318235	322736	321607	0.92	cps
Lead	207-1	264818	267752	267321	266631	0.59	cps
Lead	208-1	1250898	1249523	1253288	1251236	0.15	cps
Lithium	6-1	1644603	1633492	1645612	1641236	0.41	cps
Magnesium	24-2	333	442	283	353	22.94	cps
Manganese	55-2	2677016	2652979	2685253	2671749	0.63	cps

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2562-03	Instrumnet Name :	P7
Client Sample ID :	0206	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 14:18:53	DataFile Name :	031SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Molybdenum	94-1	92282	88917	88734	89978	2.22	cps
Molybdenum	95-1	160579	157864	156181	158208	1.40	cps
Molybdenum	96-1	171241	170541	168711	170164	0.77	cps
Molybdenum	97-1	98582	99831	97289	98568	1.29	cps
Molybdenum	98-1	256083	253705	252001	253930	0.81	cps
Neodymium	150-1	173	160	173	169	4.56	cps
Neodymium	150-2	27	17	17	20	28.86	cps
Nickel	60-2	708486	703400	708890	706925	0.43	cps
Phosphorus	31-2	550	450	567	522	12.08	cps
Potassium	39-2	57596	58131	57897	57875	0.46	cps
Rhodium	103-2	6642808	6693126	6668269	6668068	0.38	cps
Rhodium	103-1	14130772	14011701	14221041	14121171	0.74	cps
Scandium	45-1	9346219	9442689	9376705	9388538	0.53	cps
Scandium	45-2	429983	431172	430080	430412	0.15	cps
Selenium	77-2	490	450	477	472	4.31	cps
Selenium	78-2	1719	1696	1561	1659	5.14	cps
Selenium	82-1	9762	10100	10172	10011	2.18	cps
Silicon	28-1	899575	902896	895529	899333	0.41	cps
Silver	107-1	1108408	1108633	1095707	1104249	0.67	cps
Silver	109-1	1056817	1063692	1064804	1061771	0.41	cps
Sodium	23-2	58858	58131	58783	58590	0.68	cps
Strontium	86-1	7235	7094	7427	7252	2.31	cps
Strontium	88-1	1133	1017	1025	1058	6.15	cps
Sulfur	34-1	831135	826103	821632	826290	0.58	cps
Terbium	159-2	8728492	8705259	8776850	8736867	0.42	cps
Terbium	159-1	19106846	18893390	18945786	18982007	0.59	cps
Thallium	203-1	130991	131923	132588	131834	0.61	cps
Thallium	205-1	317180	312039	317649	315623	0.99	cps
Tin	118-1	6060	6744	6118	6307	6.01	cps
Titanium	47-1	325	292	217	278	19.97	cps
Uranium	238-1	4253474	4260758	4267041	4260424	0.16	cps
Vanadium	51-2	885318	884890	885148	885119	0.02	cps
Yttrium	89-2	2131867	2124038	2135638	2130515	0.28	cps
Yttrium	89-1	15355427	15516532	15363536	15411832	0.59	cps
Zinc	66-2	1148369	1143637	1144352	1145452	0.22	cps
Zirconium	90-1	2417	2359	2167	2314	5.65	cps

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LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2562-03	Instrumnet Name :	P7
Client Sample ID :	0206	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 14:18:53	DataFile Name :	031SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Zirconium	91-1	642	658	700	667	4.51	cps

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2562-04	Instrumnet Name :	P7
Client Sample ID :	0232	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 14:22:22	DataFile Name :	032SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	592	550	542	561	4.77	cps
Antimony	121-1	2934	3376	3692	3334	11.43	cps
Arsenic	75-2	133	131	91	119	20.31	cps
Barium	135-1	1000	892	1108	1000	10.83	cps
Barium	137-1	2075	1742	1784	1867	9.73	cps
Beryllium	9-1	67	94	72	78	18.90	cps
Bismuth	209-1	12131771	12231624	12156587	12173328	0.43	cps
Bismuth	209-2	6716656	6800020	6819212	6778629	0.80	cps
Boron	10-1	25631	24053	23619	24434	4.33	cps
Boron	11-1	122949	115482	111156	116529	5.12	cps
Cadmium	106-1	5576	6135	5626	5779	5.35	cps
Cadmium	108-1	25	25	17	22	21.64	cps
Cadmium	111-1	1217	1337	1182	1245	6.53	cps
Calcium	43-1	2038134	2044458	2025938	2036177	0.46	cps
Calcium	44-1	33581818	33693912	33671918	33649216	0.18	cps
Chromium	52-2	1883	1900	1710	1831	5.75	cps
Cobalt	59-2	143	157	133	144	8.10	cps
Copper	63-2	6968	7052	6932	6984	0.88	cps
Dysprosium	156-2	53	53	63	57	10.19	cps
Dysprosium	156-1	217	158	192	189	15.49	cps
Erbium	164-1	183	208	275	222	21.33	cps
Erbium	164-2	87	103	97	96	8.78	cps
Gadolinium	160-2	117	113	103	111	6.24	cps
Gadolinium	160-1	258	250	200	236	13.36	cps
Holmium	165-1	18415557	18618400	18631623	18555193	0.65	cps
Holmium	165-2	8928175	8946900	9050131	8975069	0.73	cps
Indium	115-2	2705148	2711415	2742592	2719718	0.74	cps
Indium	115-1	15090232	15260761	15095159	15148717	0.64	cps
Iron	56-2	21383	22073	21477	21644	1.73	cps
Iron	57-2	1233	1322	1195	1250	5.24	cps
Lead	206-1	2873	2989	2678	2847	5.52	cps
Lead	207-1	2078	2078	2339	2165	6.96	cps
Lead	208-1	10608	10574	10480	10554	0.63	cps
Lithium	6-1	1659591	1652499	1651942	1654677	0.26	cps
Magnesium	24-2	1892983	1906510	1911287	1903593	0.50	cps
Manganese	55-2	883	953	927	921	3.84	cps

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2562-04	Instrumnet Name :	P7
Client Sample ID :	0232	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 14:22:22	DataFile Name :	032SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Molybdenum	94-1	2175	2350	2559	2361	8.13	cps
Molybdenum	95-1	1800	1859	2492	2050	18.71	cps
Molybdenum	96-1	1842	2509	2542	2298	17.19	cps
Molybdenum	97-1	900	1142	1458	1167	24.00	cps
Molybdenum	98-1	2600	2850	4076	3176	24.87	cps
Neodymium	150-1	80	147	147	124	30.93	cps
Neodymium	150-2	60	40	57	52	20.52	cps
Nickel	60-2	553	540	527	540	2.47	cps
Phosphorus	31-2	467	417	608	497	20.00	cps
Potassium	39-2	6748963	6812311	6745643	6768972	0.56	cps
Rhodium	103-1	13946338	13872079	13879131	13899183	0.29	cps
Rhodium	103-2	6582482	6601117	6675595	6619731	0.74	cps
Scandium	45-1	9434242	9487895	9544046	9488728	0.58	cps
Scandium	45-2	434572	441145	434816	436845	0.85	cps
Selenium	82-1	189	-218	-167	-65	-339.92	cps
Selenium	77-2	0	7	7	4	86.60	cps
Selenium	78-2	117	163	165	148	18.41	cps
Silicon	28-1	782400	790261	780589	784417	0.66	cps
Silver	109-1	400	525	425	450	14.70	cps
Silver	107-1	492	625	567	561	11.91	cps
Sodium	23-2	19413845	19662155	19743051	19606350	0.87	cps
Strontium	86-1	70407	71219	68488	70038	2.00	cps
Strontium	88-1	549372	551827	547256	549485	0.42	cps
Sulfur	34-1	859661	858341	874238	864080	1.02	cps
Terbium	159-1	19012369	19083980	19066052	19054134	0.20	cps
Terbium	159-2	8813991	8882957	8726681	8807876	0.89	cps
Thallium	203-1	367	500	375	414	18.05	cps
Thallium	205-1	925	825	967	906	8.04	cps
Tin	118-1	26701	27803	27829	27444	2.35	cps
Titanium	47-1	783	767	775	775	1.08	cps
Uranium	238-1	2025	2000	2134	2053	3.45	cps
Vanadium	51-2	133	147	200	160	22.05	cps
Yttrium	89-1	15400770	15458495	15419475	15426247	0.19	cps
Yttrium	89-2	2135248	2137120	2145049	2139139	0.24	cps
Zinc	66-2	497	473	397	456	11.48	cps
Zirconium	90-1	3601	3401	3817	3606	5.78	cps

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LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2562-04	Instrumnet Name :	P7
Client Sample ID :	0232	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 14:22:22	DataFile Name :	032SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Zirconium	91-1	733	775	858	789	8.07	cps

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LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	PB98211BS	Instrumnet Name :	P7
Client Sample ID :	PB98211BS	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 14:25:50	DataFile Name :	033SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1510792	1526855	1500088	1512578	0.89	cps
Antimony	121-1	8368444	8276588	8345717	8330250	0.57	cps
Arsenic	75-2	310002	312977	309236	310738	0.64	cps
Barium	135-1	9887980	9858543	10028807	9925110	0.92	cps
Barium	137-1	17286578	17091994	17242372	17206981	0.59	cps
Beryllium	9-1	1445008	1444715	1455553	1448425	0.43	cps
Bismuth	209-1	11488999	11568281	11681964	11579748	0.84	cps
Bismuth	209-2	6516878	6526139	6520047	6521021	0.07	cps
Boron	10-1	215482	217333	220317	217711	1.12	cps
Boron	11-1	1022835	1040849	1052049	1038578	1.42	cps
Cadmium	108-1	161041	160872	162604	161506	0.59	cps
Cadmium	111-1	2048239	2072615	2059587	2060147	0.59	cps
Cadmium	106-1	245420	246240	246793	246151	0.28	cps
Calcium	43-1	2441357	2428326	2448772	2439485	0.42	cps
Calcium	44-1	39695412	39823976	40215301	39911563	0.68	cps
Chromium	52-2	2781464	2796428	2753094	2776995	0.79	cps
Cobalt	59-2	4480895	4490114	4502423	4491144	0.24	cps
Copper	63-2	6660068	6674602	6652680	6662450	0.17	cps
Dysprosium	156-2	70	57	50	59	17.29	cps
Dysprosium	156-1	175	183	217	192	11.50	cps
Erbium	164-1	158	100	167	142	25.64	cps
Erbium	164-2	70	43	23	46	51.40	cps
Gadolinium	160-2	50	67	90	69	29.17	cps
Gadolinium	160-1	200	208	183	197	6.45	cps
Holmium	165-1	17895285	17774166	17779959	17816470	0.38	cps
Holmium	165-2	8782644	8624759	8712387	8706596	0.91	cps
Indium	115-2	2603456	2610266	2591898	2601873	0.36	cps
Indium	115-1	14292411	14406061	14208437	14302303	0.69	cps
Iron	56-2	114211616	114917661	114341039	114490105	0.33	cps
Iron	57-2	2772278	2773554	2783071	2776301	0.21	cps
Lead	206-1	6462006	6392940	6463300	6439416	0.63	cps
Lead	207-1	5870168	5829484	5933035	5877562	0.89	cps
Lead	208-1	26437862	26311170	26614425	26454486	0.58	cps
Lithium	6-1	1584910	1592455	1590996	1589454	0.25	cps
Magnesium	24-2	20014959	20107533	19864563	19995685	0.61	cps
Manganese	55-2	2973407	2988470	2987600	2983159	0.28	cps

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	PB98211BS	Instrumnet Name :	P7
Client Sample ID :	PB98211BS	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 14:25:50	DataFile Name :	033SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Molybdenum	94-1	7637218	7663016	7678853	7659696	0.27	cps
Molybdenum	95-1	4042072	4059983	4058433	4053496	0.24	cps
Molybdenum	96-1	5222851	5253711	5371175	5282579	1.48	cps
Molybdenum	97-1	2502898	2491786	2513514	2502733	0.43	cps
Molybdenum	98-1	6680211	6584268	6668507	6644328	0.79	cps
Neodymium	150-1	633	700	473	602	19.34	cps
Neodymium	150-2	60	53	73	62	16.37	cps
Nickel	60-2	1195944	1200772	1203383	1200033	0.31	cps
Phosphorus	31-2	91195	91950	92788	91978	0.87	cps
Potassium	39-2	9876581	9961321	9948329	9928744	0.46	cps
Rhodium	103-1	13135905	13162883	13261579	13186789	0.50	cps
Rhodium	103-2	6272159	6301843	6323902	6299302	0.41	cps
Scandium	45-2	429667	429877	429284	429609	0.07	cps
Scandium	45-1	9111925	9174885	9280828	9189213	0.93	cps
Selenium	82-1	135865	135302	135803	135657	0.23	cps
Selenium	77-2	6382	6111	6115	6203	2.50	cps
Selenium	78-2	20789	21065	20324	20726	1.81	cps
Silicon	28-1	5182928	5266868	5295631	5248476	1.12	cps
Silver	107-1	10623570	10646997	10718670	10663079	0.46	cps
Silver	109-1	10194149	10213932	10205178	10204420	0.10	cps
Sodium	23-2	39766659	40368319	39723118	39952698	0.90	cps
Strontium	86-1	3017991	3036532	3056074	3036866	0.63	cps
Strontium	88-1	26720902	26589637	26877941	26729493	0.54	cps
Sulfur	34-1	1695043	1695531	1694734	1695103	0.02	cps
Terbium	159-1	18396322	18288496	18369715	18351511	0.31	cps
Terbium	159-2	8541839	8572557	8441154	8518517	0.81	cps
Thallium	203-1	8337507	8307789	8198170	8281155	0.89	cps
Thallium	205-1	19588751	19517132	19561808	19555897	0.18	cps
Tin	118-1	6959396	6911862	7010031	6960429	0.71	cps
Titanium	47-1	1187579	1193305	1210359	1197081	0.99	cps
Uranium	238-1	27004611	27060238	27382774	27149208	0.75	cps
Vanadium	51-2	2242725	2241737	2240626	2241696	0.05	cps
Yttrium	89-1	14882809	14906842	14930338	14906663	0.16	cps
Yttrium	89-2	2069532	2087181	2076683	2077799	0.43	cps
Zinc	66-2	920444	924466	917435	920782	0.38	cps
Zirconium	90-1	14605708	14558023	14585186	14582972	0.16	cps

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LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	PB98211BS	Instrumnet Name :	P7
Client Sample ID :	PB98211BS	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 14:25:50	DataFile Name :	033SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Zirconium	91-1	3206746	3189551	3205416	3200571	0.30	cps

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	CCV65	Instrumnet Name :	P7
Client Sample ID :	CCV65	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 14:29:12	DataFile Name :	034CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1531374	1521638	1531186	1528066	0.36	cps
Antimony	121-1	8467040	8450727	8444104	8453957	0.14	cps
Arsenic	75-2	315522	317877	315017	316139	0.48	cps
Barium	135-1	9940909	10009417	10154684	10035004	1.09	cps
Barium	137-1	17364425	17321211	17526254	17403963	0.62	cps
Beryllium	9-1	1446444	1453272	1441871	1447196	0.40	cps
Bismuth	209-1	11624606	11687512	11620595	11644237	0.32	cps
Bismuth	209-2	6520573	6513162	6511305	6515013	0.08	cps
Boron	10-1	212036	218796	219480	216770	1.90	cps
Boron	11-1	1014800	1039958	1050237	1034998	1.76	cps
Cadmium	106-1	246376	249503	246674	247518	0.70	cps
Cadmium	108-1	161032	162410	161769	161737	0.43	cps
Cadmium	111-1	2077877	2083824	2094866	2085522	0.41	cps
Calcium	43-1	2445456	2469057	2471338	2461950	0.58	cps
Calcium	44-1	40285584	40978602	40571947	40612044	0.86	cps
Chromium	52-2	2799867	2804833	2813059	2805920	0.24	cps
Cobalt	59-2	4497969	4535578	4549806	4527784	0.59	cps
Copper	63-2	6736567	6676680	6695612	6702953	0.46	cps
Dysprosium	156-2	37	20	33	30	29.40	cps
Dysprosium	156-1	67	125	150	114	37.55	cps
Erbium	164-1	58	67	100	75	29.40	cps
Erbium	164-2	43	47	50	47	7.15	cps
Gadolinium	160-2	70	77	60	69	12.18	cps
Gadolinium	160-1	192	142	233	189	24.30	cps
Holmium	165-2	8822304	8809390	8693234	8774976	0.81	cps
Holmium	165-1	17819900	17986288	17953004	17919731	0.49	cps
Indium	115-1	14661041	14811812	14788967	14753940	0.55	cps
Indium	115-2	2697484	2665684	2694103	2685757	0.65	cps
Iron	56-2	115680150	114823408	116166014	115556524	0.59	cps
Iron	57-2	2795401	2797083	2821251	2804578	0.52	cps
Lead	206-1	6451283	6525919	6493561	6490254	0.58	cps
Lead	207-1	5912298	5959881	5924600	5932260	0.42	cps
Lead	208-1	26540548	26663662	26830690	26678300	0.55	cps
Lithium	6-1	1572111	1560884	1549302	1560766	0.73	cps
Magnesium	24-2	20328680	20360160	20153665	20280835	0.55	cps
Manganese	55-2	3004155	3022323	3038378	3021618	0.57	cps

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On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	CCV65	Instrumnet Name :	P7
Client Sample ID :	CCV65	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 14:29:12	DataFile Name :	034CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Molybdenum	94-1	7698628	7807967	7719069	7741888	0.75	cps
Molybdenum	95-1	4100281	4102056	4093292	4098543	0.11	cps
Molybdenum	96-1	5323289	5422073	5481939	5409100	1.48	cps
Molybdenum	97-1	2544323	2538348	2536419	2539697	0.16	cps
Molybdenum	98-1	6654634	6679245	6767455	6700445	0.89	cps
Neodymium	150-1	567	707	527	600	15.75	cps
Neodymium	150-2	40	63	67	57	25.64	cps
Nickel	60-2	1199641	1204143	1210070	1204618	0.43	cps
Phosphorus	31-2	91833	93383	93853	93023	1.14	cps
Potassium	39-2	10066477	10128891	10107901	10101090	0.31	cps
Rhodium	103-2	6413870	6329968	6356267	6366701	0.67	cps
Rhodium	103-1	13139759	13244028	13374390	13252726	0.89	cps
Scandium	45-1	9230284	9295432	9298365	9274693	0.41	cps
Scandium	45-2	433028	437026	435406	435153	0.46	cps
Selenium	77-2	6268	6315	6415	6333	1.18	cps
Selenium	78-2	21438	21338	20906	21227	1.33	cps
Selenium	82-1	136862	138569	138656	138029	0.73	cps
Silicon	28-1	5100299	5120319	5138673	5119764	0.37	cps
Silver	109-1	10229903	10186263	10272995	10229720	0.42	cps
Silver	107-1	10589637	10763424	10822174	10725078	1.13	cps
Sodium	23-2	40533717	40225169	40370429	40376438	0.38	cps
Strontium	86-1	3054159	3063105	3082900	3066721	0.48	cps
Strontium	88-1	26924368	26998967	26960410	26961249	0.14	cps
Sulfur	34-1	1662776	1661920	1688386	1671028	0.90	cps
Terbium	159-1	18302762	18392805	18424630	18373399	0.34	cps
Terbium	159-2	8630515	8643493	8568278	8614095	0.47	cps
Thallium	203-1	8218824	8303719	8306050	8276198	0.60	cps
Thallium	205-1	19438412	19530130	19695070	19554537	0.67	cps
Tin	118-1	7034316	7024636	6999535	7019495	0.26	cps
Titanium	47-1	1210889	1208542	1211192	1210208	0.12	cps
Uranium	238-1	27344748	27304405	27451487	27366880	0.28	cps
Vanadium	51-2	2264311	2264780	2277665	2268919	0.33	cps
Yttrium	89-2	2115743	2104907	2096831	2105827	0.45	cps
Yttrium	89-1	15037601	15102116	15050822	15063513	0.23	cps
Zinc	66-2	929503	934431	935249	933061	0.33	cps
Zirconium	90-1	14603402	14882416	14751420	14745746	0.95	cps

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	CCV65	Instrumnet Name :	P7
Client Sample ID :	CCV65	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 14:29:12	DataFile Name :	034CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Zirconium	91-1	3201220	3259397	3220069	3226896	0.92	cps

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On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	CCB65	Instrumnet Name :	P7
Client Sample ID :	CCB65	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 14:50:23	DataFile Name :	035CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	92	108	75	92	18.18	cps
Antimony	121-1	12014	17003	22661	17226	30.92	cps
Arsenic	75-2	70	59	61	64	9.36	cps
Barium	135-1	117	108	150	125	17.64	cps
Barium	137-1	83	192	208	161	42.13	cps
Beryllium	9-1	56	83	83	74	21.65	cps
Bismuth	209-1	12072629	12104569	12286497	12154565	0.95	cps
Bismuth	209-2	6808111	6848967	7317675	6991584	4.05	cps
Boron	10-1	1600	1850	1408	1620	13.68	cps
Boron	11-1	7219	7686	7686	7530	3.58	cps
Cadmium	106-1	5126	4993	5635	5251	6.45	cps
Cadmium	108-1	21	21	4	15	62.96	cps
Cadmium	111-1	1029	1003	1149	1061	7.37	cps
Calcium	43-1	442	492	583	506	14.21	cps
Calcium	44-1	27301	26358	27151	26937	1.88	cps
Chromium	52-2	947	883	833	888	6.40	cps
Cobalt	59-2	103	117	100	107	8.27	cps
Copper	63-2	5715	5818	5945	5826	1.98	cps
Dysprosium	156-2	3	3	3	3	0.00	cps
Dysprosium	156-1	8	17	25	17	50.01	cps
Erbium	164-1	75	50	25	50	50.00	cps
Erbium	164-2	10	17	30	19	53.91	cps
Gadolinium	160-2	47	43	50	47	7.15	cps
Gadolinium	160-1	67	158	75	100	50.69	cps
Holmium	165-1	18034830	17870418	17994707	17966651	0.48	cps
Holmium	165-2	8842241	8935358	9038483	8938694	1.10	cps
Indium	115-2	2701778	2708851	2785352	2731994	1.70	cps
Indium	115-1	14762442	14714801	14935649	14804297	0.79	cps
Iron	56-2	7113	7447	7335	7298	2.33	cps
Iron	57-2	189	106	133	143	29.76	cps
Lead	206-1	1917	1567	1967	1817	12.00	cps
Lead	207-1	1550	1495	1533	1526	1.87	cps
Lead	208-1	7412	7184	7240	7279	1.63	cps
Lithium	6-1	1533630	1522680	1552820	1536377	0.99	cps
Magnesium	24-2	258	283	217	253	13.32	cps
Manganese	55-2	57	60	77	64	16.63	cps

Reviewed By:jaswal
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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	CCB65	Instrumnet Name :	P7
Client Sample ID :	CCB65	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 14:50:23	DataFile Name :	035CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Molybdenum	94-1	942	1200	1734	1292	31.26	cps
Molybdenum	95-1	1183	1717	2425	1775	35.09	cps
Molybdenum	96-1	1167	1942	2459	1856	35.04	cps
Molybdenum	97-1	675	933	1317	975	33.11	cps
Molybdenum	98-1	1975	2517	3626	2706	31.09	cps
Neodymium	150-1	7	13	7	9	43.25	cps
Neodymium	150-2	0	0	0	0	0.00	cps
Nickel	60-2	293	323	297	304	5.40	cps
Phosphorus	31-2	617	475	575	556	13.11	cps
Potassium	39-2	59010	58290	59018	58773	0.71	cps
Rhodium	103-2	6575073	6655763	6731737	6654191	1.18	cps
Rhodium	103-1	13938265	13793945	13811809	13848006	0.57	cps
Scandium	45-1	9219273	9213875	9349795	9260981	0.83	cps
Scandium	45-2	432479	435994	447813	438762	1.83	cps
Selenium	77-2	0	7	13	7	99.98	cps
Selenium	78-2	131	143	141	138	4.31	cps
Selenium	82-1	-215	-372	99	-163	-147.39	cps
Silicon	28-1	508505	513456	511673	511212	0.49	cps
Silver	107-1	367	408	425	400	7.51	cps
Silver	109-1	242	317	408	322	25.91	cps
Sodium	23-2	37481	37924	37222	37543	0.94	cps
Strontium	86-1	7436	7461	7185	7361	2.07	cps
Strontium	88-1	692	633	683	669	4.71	cps
Sulfur	34-1	828147	829714	826126	827996	0.22	cps
Terbium	159-2	8648419	8731623	8871107	8750383	1.29	cps
Terbium	159-1	18464551	18314072	18608143	18462255	0.80	cps
Thallium	203-1	242	267	392	300	26.79	cps
Thallium	205-1	717	708	700	708	1.18	cps
Tin	118-1	1150	1275	1500	1308	13.56	cps
Titanium	47-1	125	217	250	197	32.82	cps
Uranium	238-1	75	117	175	122	41.10	cps
Vanadium	51-2	17	13	53	28	79.90	cps
Yttrium	89-2	2119695	2120512	2166374	2135527	1.25	cps
Yttrium	89-1	15099951	14875745	15052617	15009438	0.79	cps
Zinc	66-2	173	237	267	226	21.12	cps
Zirconium	90-1	950	1267	1367	1195	18.21	cps

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	CCB65	Instrumnet Name :	P7
Client Sample ID :	CCB65	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 14:50:23	DataFile Name :	035CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Zirconium	91-1	242	167	258	222	21.97	cps

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	PB98303BL	Instrumnet Name :	P7
Client Sample ID :	PB98303BL	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 14:53:52	DataFile Name :	036CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	92	158	67	106	44.89	cps
Antimony	121-1	3817	5084	5751	4884	20.11	cps
Arsenic	75-2	39	41	43	41	4.54	cps
Barium	135-1	92	58	75	75	22.22	cps
Barium	137-1	75	100	133	103	28.48	cps
Beryllium	9-1	67	100	61	76	27.70	cps
Bismuth	209-1	11117108	11324479	11408991	11283526	1.33	cps
Bismuth	209-2	6485502	6434821	6539227	6486517	0.80	cps
Boron	10-1	1358	1375	1142	1292	10.08	cps
Boron	11-1	5960	5660	5701	5774	2.82	cps
Cadmium	106-1	4651	4826	4884	4787	2.54	cps
Cadmium	108-1	13	8	25	15	56.79	cps
Cadmium	111-1	956	981	983	973	1.54	cps
Calcium	43-1	458	617	467	514	17.34	cps
Calcium	44-1	25523	25406	25790	25573	0.77	cps
Chromium	52-2	860	873	840	858	1.96	cps
Cobalt	59-2	83	67	87	79	13.58	cps
Copper	63-2	5578	5581	5658	5606	0.81	cps
Dysprosium	156-1	25	17	8	17	50.01	cps
Dysprosium	156-2	0	10	0	3	173.21	cps
Erbium	164-2	13	33	17	21	50.75	cps
Erbium	164-1	42	50	25	39	32.73	cps
Gadolinium	160-1	83	83	58	75	19.24	cps
Gadolinium	160-2	43	53	37	44	18.87	cps
Holmium	165-2	8383053	8453404	8453457	8429972	0.48	cps
Holmium	165-1	16401468	16757806	16837007	16665427	1.39	cps
Indium	115-1	13570152	13700615	13854971	13708579	1.04	cps
Indium	115-2	2580540	2558804	2587324	2575556	0.58	cps
Iron	56-2	6780	6863	6624	6755	1.80	cps
Iron	57-2	211	161	144	172	20.15	cps
Lead	206-1	1811	1639	1706	1719	5.05	cps
Lead	207-1	1506	1550	1517	1524	1.52	cps
Lead	208-1	6790	6834	6945	6856	1.17	cps
Lithium	6-1	1430063	1432404	1462836	1441768	1.27	cps
Magnesium	24-2	158	200	258	206	24.44	cps
Manganese	55-2	60	47	50	52	13.28	cps

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	PB98303BL	Instrumnet Name :	P7
Client Sample ID :	PB98303BL	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 14:53:52	DataFile Name :	036CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Molybdenum	94-1	500	633	1100	744	42.32	cps
Molybdenum	95-1	450	750	908	703	33.12	cps
Molybdenum	96-1	700	775	1100	858	24.77	cps
Molybdenum	97-1	292	425	658	458	40.49	cps
Molybdenum	98-1	733	967	1533	1078	38.17	cps
Neodymium	150-1	7	0	7	4	86.60	cps
Neodymium	150-2	0	0	0	0	0.00	cps
Nickel	60-2	360	323	263	316	15.47	cps
Phosphorus	31-2	608	483	492	528	13.24	cps
Potassium	39-2	56316	55279	55831	55808	0.93	cps
Rhodium	103-2	6330169	6252927	6262671	6281922	0.67	cps
Rhodium	103-1	12587769	12767276	12920576	12758540	1.31	cps
Scandium	45-1	8449605	8498546	8519432	8489194	0.42	cps
Scandium	45-2	414454	407920	417715	413363	1.21	cps
Selenium	77-2	10	0	3	4	114.60	cps
Selenium	78-2	106	165	135	135	21.92	cps
Selenium	82-1	-196	170	-108	-44	-429.57	cps
Silicon	28-1	506565	504264	505877	505569	0.23	cps
Silver	109-1	225	300	225	250	17.32	cps
Silver	107-1	283	325	242	283	14.71	cps
Sodium	23-2	37046	36412	36529	36662	0.92	cps
Strontium	86-1	7377	7211	7194	7261	1.40	cps
Strontium	88-1	633	758	517	636	19.00	cps
Sulfur	34-1	803278	808187	808083	806516	0.35	cps
Terbium	159-1	16914186	17228414	17306218	17149606	1.21	cps
Terbium	159-2	8379508	8297017	8398356	8358294	0.64	cps
Thallium	203-1	267	217	325	269	20.12	cps
Thallium	205-1	583	592	592	589	0.82	cps
Tin	118-1	900	1117	1092	1036	11.44	cps
Titanium	47-1	258	208	192	219	15.81	cps
Uranium	238-1	75	142	92	103	33.76	cps
Vanadium	51-2	10	23	23	19	40.75	cps
Yttrium	89-2	2010236	2019950	2032275	2020821	0.55	cps
Yttrium	89-1	13783339	14070401	14220576	14024772	1.58	cps
Zinc	66-2	270	283	373	309	18.20	cps
Zirconium	90-1	1017	883	1000	967	7.51	cps

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LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	PB98303BL	Instrumnet Name :	P7
Client Sample ID :	PB98303BL	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 14:53:52	DataFile Name :	036CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Zirconium	91-1	233	258	233	242	5.97	cps

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	PB98303BS	Instrumnet Name :	P7
Client Sample ID :	PB98303BS	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 14:57:23	DataFile Name :	037CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1477868	1489651	1482449	1483323	0.40	cps
Antimony	121-1	8157796	8080155	8091152	8109701	0.52	cps
Arsenic	75-2	306610	310845	308172	308542	0.69	cps
Barium	135-1	9726409	9708860	9682920	9706063	0.23	cps
Barium	137-1	16738826	16969498	16751894	16820073	0.77	cps
Beryllium	9-1	1364882	1377094	1393860	1378612	1.06	cps
Bismuth	209-2	6331743	6452565	6381152	6388486	0.95	cps
Bismuth	209-1	11246846	11185588	11529354	11320596	1.62	cps
Boron	10-1	198024	198404	200933	199120	0.79	cps
Boron	11-1	941728	954896	970342	955655	1.50	cps
Cadmium	111-1	1986231	1997700	2010748	1998226	0.61	cps
Cadmium	106-1	236908	231584	239988	236160	1.80	cps
Cadmium	108-1	153731	155169	155707	154869	0.66	cps
Calcium	43-1	2352201	2346106	2340647	2346318	0.25	cps
Calcium	44-1	38139514	38516250	38454878	38370214	0.53	cps
Chromium	52-2	2713041	2751614	2732761	2732472	0.71	cps
Cobalt	59-2	4392443	4462476	4413574	4422831	0.81	cps
Copper	63-2	6486914	6548927	6474669	6503503	0.61	cps
Dysprosium	156-2	33	30	63	42	43.48	cps
Dysprosium	156-1	167	183	125	158	18.97	cps
Erbium	164-1	92	83	25	67	54.49	cps
Erbium	164-2	40	57	27	41	36.56	cps
Gadolinium	160-1	192	158	117	156	24.16	cps
Gadolinium	160-2	63	93	97	84	21.75	cps
Holmium	165-1	17158696	17300116	17455656	17304823	0.86	cps
Holmium	165-2	8577288	8579647	8523998	8560311	0.37	cps
Indium	115-2	2530680	2557880	2577244	2555268	0.92	cps
Indium	115-1	13833195	13953482	13962141	13916272	0.52	cps
Iron	56-2	110691361	114271808	112021486	112328218	1.61	cps
Iron	57-2	2707473	2771527	2717544	2732181	1.26	cps
Lead	206-1	6347688	6352579	6313367	6337878	0.34	cps
Lead	207-1	5760477	5720007	5778946	5753144	0.52	cps
Lead	208-1	25829624	25832518	26026233	25896125	0.44	cps
Lithium	6-1	1483408	1478443	1487638	1483163	0.31	cps
Magnesium	24-2	19554798	19826822	19665770	19682463	0.69	cps
Manganese	55-2	2921187	2978786	2929534	2943169	1.06	cps

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	PB98303BS	Instrumnet Name :	P7
Client Sample ID :	PB98303BS	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 14:57:23	DataFile Name :	037CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Molybdenum	94-1	7459008	7397014	7457923	7437982	0.48	cps
Molybdenum	95-1	3958943	3923489	3962516	3948316	0.55	cps
Molybdenum	96-1	5101192	5114601	5126824	5114206	0.25	cps
Molybdenum	97-1	2426926	2454004	2445295	2442075	0.57	cps
Molybdenum	98-1	6483952	6434523	6424470	6447648	0.49	cps
Neodymium	150-1	573	400	567	513	19.13	cps
Neodymium	150-2	60	110	80	83	30.20	cps
Nickel	60-2	1168323	1187518	1169319	1175053	0.92	cps
Phosphorus	31-2	88604	90046	87440	88697	1.47	cps
Potassium	39-2	9729603	9846325	9790523	9788817	0.60	cps
Rhodium	103-1	12796307	12776786	12719235	12764110	0.31	cps
Rhodium	103-2	6152473	6094522	6157276	6134757	0.57	cps
Scandium	45-1	8935821	8869202	8873346	8892790	0.42	cps
Scandium	45-2	422517	420424	423675	422205	0.39	cps
Selenium	82-1	129708	130129	130529	130122	0.32	cps
Selenium	77-2	5871	5981	5911	5921	0.94	cps
Selenium	78-2	20242	20340	20505	20363	0.65	cps
Silicon	28-1	4962905	5012134	5084235	5019758	1.22	cps
Silver	109-1	9880635	9947529	9891531	9906565	0.36	cps
Silver	107-1	10409164	10310760	10381798	10367241	0.49	cps
Sodium	23-2	38693289	39339161	38943718	38992056	0.84	cps
Strontium	86-1	2961826	2959942	2973082	2964950	0.24	cps
Strontium	88-1	26075720	26046174	25926464	26016119	0.30	cps
Sulfur	34-1	1607682	1613588	1612050	1611107	0.19	cps
Terbium	159-2	8418082	8458643	8337076	8404600	0.74	cps
Terbium	159-1	17789378	17816141	18062554	17889358	0.84	cps
Thallium	203-1	7985120	8078349	8073353	8045607	0.65	cps
Thallium	205-1	19019000	19182034	19042169	19081068	0.46	cps
Tin	118-1	6728862	6774013	6735669	6746181	0.36	cps
Titanium	47-1	1150802	1165849	1162078	1159577	0.68	cps
Uranium	238-1	26381296	26243460	26790040	26471599	1.07	cps
Vanadium	51-2	2205211	2191399	2221010	2205873	0.67	cps
Yttrium	89-1	14365376	14615048	14396658	14459027	0.94	cps
Yttrium	89-2	2042226	2079136	2053029	2058130	0.92	cps
Zinc	66-2	896254	907752	902963	902323	0.64	cps
Zirconium	90-1	14020686	14276010	14215972	14170889	0.94	cps

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On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	PB98303BS	Instrumnet Name :	P7
Client Sample ID :	PB98303BS	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 14:57:23	DataFile Name :	037CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Zirconium	91-1	3106473	3098410	3128810	3111231	0.51	cps

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2675-01	Instrumnet Name :	P7
Client Sample ID :	ROOM-109-KITCHENSA	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 15:00:46	DataFile Name :	038SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	2092	2134	2876	2367	18.63	cps
Antimony	121-1	26050	29791	32472	29438	10.96	cps
Arsenic	75-2	494	506	535	512	4.12	cps
Barium	135-1	70462	71769	68855	70362	2.07	cps
Barium	137-1	122824	126437	119603	122955	2.78	cps
Beryllium	9-1	217	233	194	215	9.08	cps
Bismuth	209-1	12184774	12177724	12628000	12330166	2.09	cps
Bismuth	209-2	6871156	6869610	7127370	6956045	2.13	cps
Boron	10-1	8178	8503	8094	8258	2.61	cps
Boron	11-1	40890	39285	37690	39288	4.07	cps
Cadmium	106-1	5318	5076	5276	5223	2.47	cps
Cadmium	108-1	75	46	129	83	50.75	cps
Cadmium	111-1	1373	1263	1157	1264	8.54	cps
Calcium	43-1	337993	333429	332050	334491	0.93	cps
Calcium	44-1	5547778	5549418	5448862	5515353	1.04	cps
Chromium	52-2	2130	1680	1773	1861	12.76	cps
Cobalt	59-2	567	550	533	550	3.03	cps
Copper	63-2	1235376	1235180	1225831	1232129	0.44	cps
Dysprosium	156-2	50	57	47	51	9.96	cps
Dysprosium	156-1	67	100	58	75	29.39	cps
Erbium	164-1	125	167	142	144	14.52	cps
Erbium	164-2	87	30	53	57	50.26	cps
Gadolinium	160-2	83	113	97	98	15.37	cps
Gadolinium	160-1	292	217	208	239	19.24	cps
Holmium	165-2	8996943	8981311	8958830	8979028	0.21	cps
Holmium	165-1	18397245	18748789	18927049	18691028	1.44	cps
Indium	115-1	15207982	15188486	15228034	15208167	0.13	cps
Indium	115-2	2745609	2757099	2753593	2752101	0.21	cps
Iron	56-2	349574	352411	345378	349121	1.01	cps
Iron	57-2	8647	9092	8747	8829	2.64	cps
Lead	206-1	51400	50078	49191	50223	2.21	cps
Lead	207-1	42468	41616	41945	42010	1.02	cps
Lead	208-1	197771	195189	192945	195302	1.24	cps
Lithium	6-1	1600918	1628896	1622541	1617452	0.91	cps
Magnesium	24-2	618381	624360	629006	623916	0.85	cps
Manganese	55-2	28708	28945	28621	28758	0.58	cps

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2675-01	Instrumnet Name :	P7
Client Sample ID :	ROOM-109-KITCHENSA	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 15:00:46	DataFile Name :	038SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Molybdenum	94-1	7402	7694	10312	8470	18.92	cps
Molybdenum	95-1	5568	7386	10104	7686	29.70	cps
Molybdenum	96-1	7044	8895	11705	9215	25.47	cps
Molybdenum	97-1	3467	4593	6302	4787	29.81	cps
Molybdenum	98-1	9087	12247	16560	12631	29.70	cps
Neodymium	150-1	60	73	100	78	26.18	cps
Neodymium	150-2	37	40	47	41	12.39	cps
Nickel	60-2	8766	8659	8706	8710	0.61	cps
Phosphorus	31-2	5226	4759	5084	5023	4.76	cps
Potassium	39-2	311333	310404	309075	310271	0.37	cps
Rhodium	103-2	6643182	6665701	6679491	6662791	0.28	cps
Rhodium	103-1	13978025	14025712	14065690	14023142	0.31	cps
Scandium	45-1	9538640	9657918	9634358	9610305	0.66	cps
Scandium	45-2	440240	442469	445475	442728	0.59	cps
Selenium	77-2	17	10	17	14	26.66	cps
Selenium	78-2	178	152	154	161	8.98	cps
Selenium	82-1	253	167	119	180	37.85	cps
Silicon	28-1	9266636	9197295	9317047	9260326	0.65	cps
Silver	109-1	2117	1884	1750	1917	9.68	cps
Silver	107-1	2392	1984	2159	2178	9.41	cps
Sodium	23-2	8872006	8760367	8855601	8829325	0.68	cps
Strontium	86-1	127420	127411	128968	127933	0.70	cps
Strontium	88-1	1053568	1054245	1044086	1050633	0.54	cps
Sulfur	34-1	947751	939852	937922	941842	0.55	cps
Terbium	159-1	18855485	19105581	19209678	19056915	0.96	cps
Terbium	159-2	8808454	8874701	8822841	8835332	0.39	cps
Thallium	203-1	2142	2067	1917	2042	5.61	cps
Thallium	205-1	5535	4634	4484	4884	11.63	cps
Tin	118-1	29758	30292	31587	30546	3.08	cps
Titanium	47-1	1500	1550	1558	1536	2.05	cps
Uranium	238-1	3151	2534	2017	2567	22.11	cps
Vanadium	51-2	327	450	300	359	22.30	cps
Yttrium	89-2	2152558	2142708	2154832	2150033	0.30	cps
Yttrium	89-1	15366034	15576491	15666531	15536352	0.99	cps
Zinc	66-2	486234	487193	487077	486835	0.11	cps
Zirconium	90-1	10704	10654	11547	10969	4.57	cps

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2675-01	Instrumnet Name :	P7
Client Sample ID :	ROOM-109-KITCHENSA	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 15:00:46	DataFile Name :	038SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Zirconium	91-1	1992	2509	2692	2398	15.14	cps

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On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2675-02	Instrumnet Name :	P7
Client Sample ID :	ROOM-109-KITCHENSA	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 15:04:15	DataFile Name :	039SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	3492	4361	3592	3815	12.45	cps
Antimony	121-1	9270	10588	12273	10710	14.05	cps
Arsenic	75-2	300	385	333	340	12.64	cps
Barium	135-1	65572	67347	69482	67467	2.90	cps
Barium	137-1	115393	118670	119932	117998	1.99	cps
Beryllium	9-1	83	150	111	115	29.16	cps
Bismuth	209-1	12479006	12321094	12321672	12373924	0.74	cps
Bismuth	209-2	6857166	6832980	7007515	6899220	1.37	cps
Boron	10-1	5601	5009	5201	5271	5.73	cps
Boron	11-1	26482	25889	26950	26441	2.01	cps
Cadmium	106-1	5018	5268	5460	5248	4.22	cps
Cadmium	108-1	13	17	42	24	66.81	cps
Cadmium	111-1	1075	1114	1159	1116	3.74	cps
Calcium	43-1	323721	324382	325447	324517	0.27	cps
Calcium	44-1	5413240	5383777	5391522	5396180	0.28	cps
Chromium	52-2	1833	1847	1817	1832	0.82	cps
Cobalt	59-2	377	427	477	427	11.72	cps
Copper	63-2	12900433	12949759	12998776	12949656	0.38	cps
Dysprosium	156-2	80	60	70	70	14.29	cps
Dysprosium	156-1	142	150	150	147	3.27	cps
Erbium	164-1	217	217	208	214	2.25	cps
Erbium	164-2	77	93	97	89	12.05	cps
Gadolinium	160-2	123	83	150	119	28.23	cps
Gadolinium	160-1	267	300	283	283	5.88	cps
Holmium	165-1	18569666	18444639	18399596	18471300	0.48	cps
Holmium	165-2	8944041	8913975	8900786	8919601	0.25	cps
Indium	115-2	2728570	2727235	2723570	2726458	0.09	cps
Indium	115-1	15369145	15041663	15061083	15157297	1.21	cps
Iron	56-2	535576	527264	521236	528025	1.36	cps
Iron	57-2	13290	13101	12723	13038	2.22	cps
Lead	206-1	197657	197189	196264	197037	0.36	cps
Lead	207-1	165344	164415	163790	164516	0.48	cps
Lead	208-1	767521	766420	763154	765698	0.30	cps
Lithium	6-1	1636334	1637487	1631887	1635236	0.18	cps
Magnesium	24-2	603353	604650	600565	602856	0.35	cps
Manganese	55-2	62278	62800	62666	62582	0.43	cps

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2675-02	Instrumnet Name :	P7
Client Sample ID :	ROOM-109-KITCHENSA	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 15:04:15	DataFile Name :	039SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Molybdenum	94-1	2342	2892	3810	3015	24.60	cps
Molybdenum	95-1	2059	2484	3517	2686	27.92	cps
Molybdenum	96-1	2267	3100	3817	3062	25.34	cps
Molybdenum	97-1	1233	1709	2025	1656	24.07	cps
Molybdenum	98-1	2975	4493	5693	4387	31.04	cps
Neodymium	150-1	140	200	173	171	17.57	cps
Neodymium	150-2	60	63	37	53	27.24	cps
Nickel	60-2	1677	1657	1703	1679	1.39	cps
Phosphorus	31-2	6552	6752	6869	6724	2.38	cps
Potassium	39-2	304847	302847	303240	303644	0.35	cps
Rhodium	103-1	13821632	13958432	13939651	13906571	0.53	cps
Rhodium	103-2	6725640	6679627	6651658	6685642	0.56	cps
Scandium	45-2	439685	440472	435790	438649	0.57	cps
Scandium	45-1	9665336	9402980	9490969	9519762	1.40	cps
Selenium	82-1	-45	62	99	39	193.43	cps
Selenium	77-2	3	0	7	3	100.05	cps
Selenium	78-2	131	126	174	144	18.32	cps
Silicon	28-1	8679602	8532270	8606142	8606005	0.86	cps
Silver	109-1	3492	3317	3676	3495	5.13	cps
Silver	107-1	3751	3467	3901	3706	5.94	cps
Sodium	23-2	8538566	8621814	8583810	8581397	0.49	cps
Strontium	86-1	125025	124427	124276	124576	0.32	cps
Strontium	88-1	1020698	1023448	1016579	1020242	0.34	cps
Sulfur	34-1	955999	964990	959772	960254	0.47	cps
Terbium	159-1	19323147	18892942	18807445	19007845	1.45	cps
Terbium	159-2	8787944	8785074	8755495	8776171	0.20	cps
Thallium	203-1	617	625	750	664	11.25	cps
Thallium	205-1	1609	1675	1725	1670	3.51	cps
Tin	118-1	326649	319434	323718	323267	1.12	cps
Titanium	47-1	5533	2792	35867	14731	124.61	cps
Uranium	238-1	1242	1333	1225	1267	4.61	cps
Vanadium	51-2	357	277	350	328	13.54	cps
Yttrium	89-2	2148143	2131179	2140178	2139833	0.40	cps
Yttrium	89-1	15647144	15509984	15476585	15544571	0.58	cps
Zinc	66-2	54093	53819	54066	53993	0.28	cps
Zirconium	90-1	4434	4376	6726	5179	25.88	cps

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2675-02	Instrumnet Name :	P7
Client Sample ID :	ROOM-109-KITCHENSA	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 15:04:15	DataFile Name :	039SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Zirconium	91-1	875	1092	1083	1017	12.08	cps

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On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	PB98296BL	Instrumnet Name :	P7
Client Sample ID :	PB98296BL	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 15:07:43	DataFile Name :	040CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	67	67	108	81	29.86	cps
Antimony	121-1	4117	5243	5935	5098	17.99	cps
Arsenic	75-2	85	61	117	88	31.79	cps
Barium	135-1	108	100	125	111	11.46	cps
Barium	137-1	225	200	142	189	22.64	cps
Beryllium	9-1	106	94	106	102	6.30	cps
Bismuth	209-2	6259267	6291389	6357072	6302576	0.79	cps
Bismuth	209-1	11228698	11433659	11377679	11346678	0.93	cps
Boron	10-1	2209	2167	2092	2156	2.74	cps
Boron	11-1	10296	9679	10246	10073	3.40	cps
Cadmium	106-1	5268	5185	4743	5065	5.57	cps
Cadmium	108-1	13	8	21	14	45.83	cps
Cadmium	111-1	1071	1053	957	1027	5.97	cps
Calcium	43-1	517	433	500	483	9.12	cps
Calcium	44-1	27235	26333	25890	26486	2.59	cps
Chromium	52-2	843	767	787	799	4.98	cps
Cobalt	59-2	117	150	143	137	12.91	cps
Copper	63-2	6482	6218	6365	6355	2.08	cps
Dysprosium	156-2	0	3	0	1	173.21	cps
Dysprosium	156-1	8	8	25	14	69.31	cps
Erbium	164-1	33	58	92	61	47.89	cps
Erbium	164-2	33	20	13	22	45.83	cps
Gadolinium	160-2	43	37	47	42	12.06	cps
Gadolinium	160-1	108	100	125	111	11.46	cps
Holmium	165-1	16731246	16716523	17039565	16829111	1.08	cps
Holmium	165-2	8257500	8195853	8263874	8239076	0.46	cps
Indium	115-2	2510288	2505403	2558611	2524767	1.16	cps
Indium	115-1	13887789	13920443	14164305	13990846	1.08	cps
Iron	56-2	8508	8203	8369	8360	1.83	cps
Iron	57-2	178	189	189	185	3.47	cps
Lead	206-1	1717	1967	1756	1813	7.42	cps
Lead	207-1	1695	1789	1750	1745	2.72	cps
Lead	208-1	7462	7940	7640	7681	3.14	cps
Lithium	6-1	1502882	1542200	1551857	1532313	1.69	cps
Magnesium	24-2	258	217	308	261	17.58	cps
Manganese	55-2	110	90	153	118	27.49	cps

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	PB98296BL	Instrumnet Name :	P7
Client Sample ID :	PB98296BL	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 15:07:43	DataFile Name :	040CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Molybdenum	94-1	675	1000	1158	945	26.09	cps
Molybdenum	95-1	850	1217	1725	1264	34.77	cps
Molybdenum	96-1	908	1283	1917	1370	37.22	cps
Molybdenum	97-1	508	800	925	745	28.72	cps
Molybdenum	98-1	1458	2034	2942	2145	34.88	cps
Neodymium	150-1	13	0	7	7	99.98	cps
Neodymium	150-2	0	0	3	1	173.21	cps
Nickel	60-2	317	407	297	340	17.23	cps
Phosphorus	31-2	500	400	542	481	15.15	cps
Potassium	39-2	55739	54501	56910	55717	2.16	cps
Rhodium	103-2	6214794	6174374	6257453	6215540	0.67	cps
Rhodium	103-1	12725506	12846223	12929190	12833640	0.80	cps
Scandium	45-1	8643931	8705203	8817270	8722135	1.01	cps
Scandium	45-2	403070	403035	408043	404716	0.71	cps
Selenium	77-2	0	3	0	1	173.21	cps
Selenium	78-2	143	128	124	131	7.45	cps
Selenium	82-1	-173	-205	-33	-137	-67.00	cps
Silicon	28-1	503881	503374	512654	506636	1.03	cps
Silver	109-1	267	275	250	264	4.82	cps
Silver	107-1	392	417	308	372	15.24	cps
Sodium	23-2	39102	39135	39979	39405	1.26	cps
Strontium	86-1	7461	6994	7135	7197	3.33	cps
Strontium	88-1	867	808	850	842	3.57	cps
Sulfur	34-1	830400	831777	828818	830332	0.18	cps
Terbium	159-1	17209098	17669660	17539047	17472602	1.36	cps
Terbium	159-2	8158752	8094601	8131898	8128417	0.40	cps
Thallium	205-1	933	1000	1133	1022	9.96	cps
Thallium	203-1	392	467	450	436	9.03	cps
Tin	118-1	1725	2000	2375	2034	16.05	cps
Titanium	47-1	175	167	242	194	21.14	cps
Uranium	238-1	150	208	208	189	17.83	cps
Vanadium	51-2	40	23	40	34	27.94	cps
Yttrium	89-2	1965142	1960260	1998200	1974534	1.05	cps
Yttrium	89-1	14116865	14262894	14395926	14258562	0.98	cps
Zinc	66-2	323	310	303	312	3.26	cps
Zirconium	90-1	858	900	800	853	5.89	cps

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	PB98296BL	Instrumnet Name :	P7
Client Sample ID :	PB98296BL	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 15:07:43	DataFile Name :	040CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Zirconium	91-1	175	183	183	181	2.67	cps

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	PB98296BS	Instrumnet Name :	P7
Client Sample ID :	PB98296BS	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 15:11:12	DataFile Name :	041CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1478254	1496165	1484322	1486247	0.61	cps
Antimony	121-1	8093773	8145400	8068145	8102439	0.49	cps
Arsenic	75-2	305010	307738	305110	305953	0.51	cps
Barium	135-1	9588418	9612496	9614087	9605001	0.15	cps
Barium	137-1	16721401	16703147	16673195	16699248	0.15	cps
Beryllium	9-1	1422198	1431570	1427347	1427038	0.33	cps
Bismuth	209-1	11145208	11230002	11256282	11210498	0.52	cps
Bismuth	209-2	6275305	6349017	6370636	6331653	0.79	cps
Boron	10-1	200764	207784	209260	205936	2.20	cps
Boron	11-1	967336	987087	1003917	986114	1.86	cps
Cadmium	106-1	240164	241162	240365	240564	0.22	cps
Cadmium	108-1	155913	156082	155450	155815	0.21	cps
Cadmium	111-1	2010170	2023453	2025385	2019670	0.41	cps
Calcium	43-1	2385862	2393543	2361170	2380192	0.71	cps
Calcium	44-1	39086105	39348492	38591215	39008604	0.99	cps
Chromium	52-2	2731085	2757018	2753594	2747233	0.51	cps
Cobalt	59-2	4390238	4420266	4480915	4430473	1.04	cps
Copper	63-2	6527791	6505939	6575747	6536492	0.55	cps
Dysprosium	156-2	73	93	87	84	12.07	cps
Dysprosium	156-1	167	225	208	200	15.02	cps
Erbium	164-1	108	133	67	103	32.77	cps
Erbium	164-2	37	57	73	56	33.04	cps
Gadolinium	160-2	103	130	117	117	11.43	cps
Gadolinium	160-1	192	200	242	211	12.69	cps
Holmium	165-1	17290415	17388792	17303172	17327460	0.31	cps
Holmium	165-2	8368119	8431182	8461109	8420137	0.56	cps
Indium	115-2	2545886	2560436	2571187	2559170	0.50	cps
Indium	115-1	13766932	14164034	14091052	14007339	1.51	cps
Iron	56-2	112354030	112070608	114560950	112995196	1.21	cps
Iron	57-2	2719991	2730583	2769305	2739960	0.95	cps
Lead	206-1	6303267	6272029	6253070	6276122	0.40	cps
Lead	207-1	5720683	5677853	5684529	5694355	0.40	cps
Lead	208-1	25849603	25642854	25771876	25754778	0.41	cps
Lithium	6-1	1549319	1555333	1555180	1553277	0.22	cps
Magnesium	24-2	19747520	19958957	19716844	19807774	0.67	cps
Manganese	55-2	2916378	2940797	2963519	2940231	0.80	cps

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	PB98296BS	Instrumnet Name :	P7
Client Sample ID :	PB98296BS	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 15:11:12	DataFile Name :	041CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Molybdenum	94-1	7527581	7370961	7441534	7446692	1.05	cps
Molybdenum	95-1	3998370	3949659	3943162	3963730	0.76	cps
Molybdenum	96-1	5147187	5124658	5091275	5121040	0.55	cps
Molybdenum	97-1	2457053	2462830	2432572	2450818	0.66	cps
Molybdenum	98-1	6591117	6484934	6463737	6513263	1.05	cps
Neodymium	150-1	727	647	567	647	12.37	cps
Neodymium	150-2	113	117	120	117	2.85	cps
Nickel	60-2	1171347	1175834	1182431	1176537	0.47	cps
Phosphorus	31-2	91253	91120	89778	90717	0.90	cps
Potassium	39-2	9754575	9813172	9864552	9810766	0.56	cps
Rhodium	103-2	6148713	6133142	6153230	6145028	0.17	cps
Rhodium	103-1	12762203	12793901	12715131	12757078	0.31	cps
Scandium	45-1	8995021	8958679	8989189	8980963	0.22	cps
Scandium	45-2	419576	426150	426152	423959	0.90	cps
Selenium	77-2	5921	6255	5961	6046	3.01	cps
Selenium	78-2	20374	19882	20665	20307	1.95	cps
Selenium	82-1	132155	132790	131587	132177	0.45	cps
Silicon	28-1	5001362	5092418	5121514	5071765	1.24	cps
Silver	109-1	10021102	9968290	9898990	9962794	0.61	cps
Silver	107-1	10412294	10468221	10363415	10414643	0.50	cps
Sodium	23-2	39677509	39287918	39662475	39542634	0.56	cps
Strontium	86-1	2968830	2980384	2973141	2974118	0.20	cps
Strontium	88-1	26100728	26224102	26208950	26177926	0.26	cps
Sulfur	34-1	1663438	1656547	1646569	1655518	0.51	cps
Terbium	159-1	17633144	17820766	17761529	17738480	0.54	cps
Terbium	159-2	8382889	8371698	8361611	8372066	0.13	cps
Thallium	203-1	8110423	8041089	8005877	8052463	0.66	cps
Thallium	205-1	18940378	18882546	18944371	18922431	0.18	cps
Tin	118-1	6787947	6821095	6825691	6811577	0.30	cps
Titanium	47-1	1186172	1180927	1175644	1180914	0.45	cps
Uranium	238-1	26316881	26681560	26602807	26533749	0.72	cps
Vanadium	51-2	2202233	2207921	2221384	2210513	0.44	cps
Yttrium	89-2	2024281	2031682	2048234	2034732	0.60	cps
Yttrium	89-1	14470960	14649276	14560865	14560367	0.61	cps
Zinc	66-2	899873	904518	906275	903555	0.37	cps
Zirconium	90-1	14340223	14215772	14193779	14249925	0.55	cps

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	PB98296BS	Instrumnet Name :	P7
Client Sample ID :	PB98296BS	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 15:11:12	DataFile Name :	041CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Zirconium	91-1	3120696	3088879	3122255	3110610	0.61	cps

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2585-01	Instrumnet Name :	P7
Client Sample ID :	22A	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 15:17:07	DataFile Name :	042SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	708746	703761	703585	705364	0.42	cps
Antimony	121-1	91633	98679	108048	99453	8.28	cps
Arsenic	75-2	913	1004	1004	974	5.38	cps
Barium	135-1	1724918	1730530	1729189	1728212	0.17	cps
Barium	137-1	3034621	3037499	3025685	3032602	0.20	cps
Beryllium	9-1	1372	1450	1583	1469	7.27	cps
Bismuth	209-1	10270163	10342136	10352434	10321578	0.43	cps
Bismuth	209-2	5683536	5702720	5725039	5703765	0.36	cps
Boron	10-1	39360	40764	40890	40338	2.10	cps
Boron	11-1	185459	193100	189559	189373	2.02	cps
Cadmium	106-1	5218	5109	5126	5151	1.13	cps
Cadmium	108-1	300	396	371	356	13.98	cps
Cadmium	111-1	5106	4827	4970	4968	2.81	cps
Calcium	43-1	13547753	13715761	13581683	13615066	0.65	cps
Calcium	44-1	217624655	221300038	222233322	220386005	1.11	cps
Chromium	52-2	117399	117809	120577	118595	1.46	cps
Cobalt	59-2	151453	150283	151974	151237	0.57	cps
Copper	63-2	248379	249196	249216	248930	0.19	cps
Dysprosium	156-2	12005	12005	12126	12045	0.58	cps
Dysprosium	156-1	26159	26819	26911	26630	1.54	cps
Erbium	164-1	25667	26143	26192	26001	1.12	cps
Erbium	164-2	12062	12042	11812	11972	1.16	cps
Gadolinium	160-2	13624	13587	13687	13632	0.37	cps
Gadolinium	160-1	24414	25917	25349	25227	3.01	cps
Holmium	165-2	8008536	7998173	8043284	8016664	0.29	cps
Holmium	165-1	16482736	16537582	16767132	16595817	0.91	cps
Indium	115-1	13607925	13941682	14154047	13901218	1.98	cps
Indium	115-2	2582162	2587517	2613027	2594235	0.64	cps
Iron	56-2	56184315	55821958	56748393	56251555	0.83	cps
Iron	57-2	1363982	1361870	1376959	1367603	0.60	cps
Lead	206-1	177613	179056	181036	179235	0.96	cps
Lead	207-1	148672	148779	151469	149640	1.06	cps
Lead	208-1	694698	700202	707905	700935	0.95	cps
Lithium	6-1	1679930	1739332	1775315	1731526	2.78	cps
Magnesium	24-2	15172328	15208038	15132366	15170911	0.25	cps
Manganese	55-2	9865647	9773593	9901139	9846793	0.67	cps

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2585-01	Instrumnet Name :	P7
Client Sample ID :	22A	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 15:17:07	DataFile Name :	042SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Molybdenum	94-1	22695	23570	25440	23902	5.87	cps
Molybdenum	95-1	13332	15234	16377	14981	10.27	cps
Molybdenum	96-1	17595	18521	19514	18543	5.18	cps
Molybdenum	97-1	8378	9103	10012	9164	8.94	cps
Molybdenum	98-1	21183	24180	26075	23813	10.36	cps
Neodymium	150-1	34337	35099	34424	34620	1.21	cps
Neodymium	150-2	12866	13093	13130	13030	1.10	cps
Nickel	60-2	77205	78267	78258	77910	0.78	cps
Phosphorus	31-2	3759	3767	3759	3762	0.13	cps
Potassium	39-2	4480415	4507085	4502171	4496557	0.32	cps
Rhodium	103-2	5426035	5445101	5458309	5443148	0.30	cps
Rhodium	103-1	11451853	11555288	11557559	11521567	0.52	cps
Scandium	45-1	8593804	8675611	8731202	8666873	0.80	cps
Scandium	45-2	392868	391723	394097	392896	0.30	cps
Selenium	77-2	73	73	87	78	9.90	cps
Selenium	78-2	193	189	246	209	15.35	cps
Selenium	82-1	497	496	691	561	20.02	cps
Silicon	28-1	121853219	123414353	122609386	122625653	0.64	cps
Silver	109-1	14049	13415	12439	13301	6.10	cps
Silver	107-1	14883	13215	13215	13771	6.99	cps
Sodium	23-2	477506644	476281311	477138011	476975322	0.13	cps
Strontium	86-1	7696076	7821687	7861655	7793139	1.11	cps
Strontium	88-1	66408560	67027331	67518018	66984636	0.83	cps
Sulfur	34-1	2281255	2315434	2293322	2296670	0.75	cps
Terbium	159-1	16537732	17121742	17045170	16901548	1.88	cps
Terbium	159-2	7852780	7891882	7974921	7906528	0.79	cps
Thallium	203-1	4376	3851	3476	3901	11.59	cps
Thallium	205-1	10872	9204	7461	9179	18.58	cps
Tin	118-1	37643	38562	39097	38434	1.91	cps
Titanium	47-1	1115410	1117660	1117061	1116710	0.10	cps
Uranium	238-1	68995	69663	68741	69133	0.69	cps
Vanadium	51-2	77073	76581	77877	77177	0.85	cps
Yttrium	89-2	1972087	1952459	1969490	1964679	0.54	cps
Yttrium	89-1	13993229	14024941	14255761	14091310	1.02	cps
Zinc	66-2	85502	86773	87091	86455	0.97	cps
Zirconium	90-1	40208	41896	43852	41985	4.34	cps

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2585-01	Instrumnet Name :	P7
Client Sample ID :	22A	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 15:17:07	DataFile Name :	042SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Zirconium	91-1	9045	9095	10262	9467	7.28	cps

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On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2585-02	Instrumnet Name :	P7
Client Sample ID :	14A	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 15:20:40	DataFile Name :	043SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1063456	1041832	1061396	1055561	1.13	cps
Antimony	121-1	31820	35471	39164	35485	10.35	cps
Arsenic	75-2	6972	7044	7030	7015	0.54	cps
Barium	135-1	3029491	3009940	3037628	3025686	0.47	cps
Barium	137-1	5309973	5327013	5298709	5311898	0.27	cps
Beryllium	9-1	1750	1739	1683	1724	2.07	cps
Bismuth	209-1	10248145	10223459	10363790	10278465	0.73	cps
Bismuth	209-2	5633529	5673629	5698746	5668634	0.58	cps
Boron	10-1	30465	30098	31626	30729	2.60	cps
Boron	11-1	148910	147252	149541	148568	0.80	cps
Cadmium	106-1	5626	5285	5501	5471	3.16	cps
Cadmium	108-1	283	250	304	279	9.79	cps
Cadmium	111-1	2380	2086	2385	2284	7.49	cps
Calcium	43-1	21991874	21959897	22122123	22024632	0.39	cps
Calcium	44-1	356382891	359064625	358733691	358060402	0.41	cps
Chromium	52-2	152419	154395	151024	152613	1.11	cps
Cobalt	59-2	76428	77500	76612	76847	0.75	cps
Copper	63-2	240934	240476	242804	241404	0.51	cps
Dysprosium	156-2	29124	29886	28894	29301	1.77	cps
Dysprosium	156-1	80067	79858	80696	80207	0.54	cps
Erbium	164-1	49708	52477	51456	51214	2.73	cps
Erbium	164-2	23848	23794	24622	24088	1.92	cps
Gadolinium	160-2	30310	30534	30571	30472	0.46	cps
Gadolinium	160-1	56300	57179	55890	56456	1.17	cps
Holmium	165-1	16651601	16900610	17006087	16852766	1.08	cps
Holmium	165-2	8078170	8111959	8101578	8097235	0.21	cps
Indium	115-2	2569700	2597714	2584712	2584042	0.54	cps
Indium	115-1	14379716	14396621	14475506	14417281	0.35	cps
Iron	56-2	134338417	134359425	134103870	134267237	0.11	cps
Iron	57-2	3233828	3233177	3229154	3232053	0.08	cps
Lead	206-1	276813	282024	279318	279385	0.93	cps
Lead	207-1	235121	233621	234943	234562	0.35	cps
Lead	208-1	1085033	1089273	1096191	1090166	0.52	cps
Lithium	6-1	1748046	1732051	1727629	1735909	0.62	cps
Magnesium	24-2	18227538	18099564	18140511	18155871	0.36	cps
Manganese	55-2	2567572	2582046	2569896	2573171	0.30	cps

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2585-02	Instrumnet Name :	P7
Client Sample ID :	14A	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 15:20:40	DataFile Name :	043SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Molybdenum	94-1	58263	57232	58856	58117	1.41	cps
Molybdenum	95-1	20758	21450	22460	21556	3.97	cps
Molybdenum	96-1	31051	32070	32279	31800	2.07	cps
Molybdenum	97-1	12973	13532	13866	13457	3.35	cps
Molybdenum	98-1	33791	34910	35428	34710	2.41	cps
Neodymium	150-1	89865	90214	90194	90091	0.22	cps
Neodymium	150-2	33554	33361	34433	33783	1.69	cps
Nickel	60-2	42348	42699	42177	42408	0.63	cps
Phosphorus	31-2	3776	3501	4101	3792	7.92	cps
Potassium	39-2	7712538	7620033	7666194	7666255	0.60	cps
Rhodium	103-1	11671130	11767242	11895365	11777912	0.96	cps
Rhodium	103-2	5409962	5472451	5455252	5445889	0.59	cps
Scandium	45-1	8784312	8739197	8754478	8759329	0.26	cps
Scandium	45-2	388459	390622	391194	390092	0.37	cps
Selenium	82-1	2627	2770	3035	2811	7.37	cps
Selenium	77-2	177	173	137	162	13.68	cps
Selenium	78-2	285	276	283	281	1.74	cps
Silicon	28-1	138926224	138518128	141110007	139518120	1.00	cps
Silver	109-1	9862	8561	8595	9006	8.23	cps
Silver	107-1	9320	9470	9003	9265	2.57	cps
Sodium	23-2	299554598	298980073	299985523	299506732	0.17	cps
Strontium	86-1	17279447	17497545	17414525	17397172	0.63	cps
Strontium	88-1	150103528	150283070	151593020	150659873	0.54	cps
Sulfur	34-1	2099465	2061370	2084789	2081875	0.92	cps
Terbium	159-1	17063479	17383764	17104307	17183850	1.01	cps
Terbium	159-2	7887858	7927228	7909185	7908090	0.25	cps
Thallium	203-1	2084	2117	2300	2167	5.39	cps
Thallium	205-1	5343	5060	5593	5332	5.01	cps
Tin	118-1	40986	41563	41295	41281	0.70	cps
Titanium	47-1	759042	753719	763068	758610	0.62	cps
Uranium	238-1	118003	119744	122514	120087	1.89	cps
Vanadium	51-2	136928	136504	137968	137133	0.55	cps
Yttrium	89-1	14745153	14671269	14667552	14694658	0.30	cps
Yttrium	89-2	1976165	1992285	1993961	1987470	0.49	cps
Zinc	66-2	55539	55987	54876	55467	1.01	cps
Zirconium	90-1	130319	128349	146931	135200	7.55	cps

Reviewed By:jaswal
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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2585-02	Instrumnet Name :	P7
Client Sample ID :	14A	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 15:20:40	DataFile Name :	043SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Zirconium	91-1	29331	31733	28596	29887	5.49	cps

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2585-03	Instrumnet Name :	P7
Client Sample ID :	1A	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 15:24:16	DataFile Name :	044SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	816038	826829	810246	817704	1.03	cps
Antimony	121-1	41847	43669	44045	43187	2.72	cps
Arsenic	75-2	5153	5064	5097	5105	0.88	cps
Barium	135-1	350261	355023	350998	352094	0.73	cps
Barium	137-1	614272	615346	647596	625738	3.03	cps
Beryllium	9-1	1528	1578	1483	1530	3.09	cps
Bismuth	209-1	10933543	10972359	10915568	10940490	0.27	cps
Bismuth	209-2	6053638	6099681	6092297	6081872	0.41	cps
Boron	10-1	16576	16677	16084	16446	1.93	cps
Boron	11-1	74861	77717	76879	76486	1.92	cps
Cadmium	111-1	2355	2305	2375	2345	1.52	cps
Cadmium	106-1	5560	5760	5110	5476	6.08	cps
Cadmium	108-1	338	383	371	364	6.51	cps
Calcium	43-1	3905814	3959200	3973311	3946108	0.90	cps
Calcium	44-1	64646668	65327608	65512249	65162175	0.70	cps
Chromium	52-2	212423	215085	213255	213587	0.64	cps
Cobalt	59-2	49286	48517	49674	49159	1.20	cps
Copper	63-2	381370	382145	381806	381774	0.10	cps
Dysprosium	156-2	15249	15672	15262	15394	1.56	cps
Dysprosium	156-1	35898	34887	35029	35271	1.55	cps
Erbium	164-1	32565	31855	31805	32075	1.33	cps
Erbium	164-2	14845	15305	15519	15223	2.26	cps
Gadolinium	160-2	17398	18182	17889	17823	2.22	cps
Gadolinium	160-1	32498	32631	32465	32531	0.27	cps
Holmium	165-2	8292049	8325962	8338606	8318872	0.29	cps
Holmium	165-1	17192697	17056877	17403298	17217624	1.01	cps
Indium	115-1	14661706	14808452	14718499	14729552	0.50	cps
Indium	115-2	2618998	2627141	2632957	2626365	0.27	cps
Iron	56-2	197527377	196029765	195089404	196215515	0.63	cps
Iron	57-2	4811683	4843365	4826325	4827125	0.33	cps
Lead	206-1	882675	893340	889471	888495	0.61	cps
Lead	207-1	740023	750049	744823	744965	0.67	cps
Lead	208-1	3465163	3480105	3471547	3472272	0.22	cps
Lithium	6-1	1714476	1698042	1710654	1707724	0.50	cps
Magnesium	24-2	3349717	3349215	3376244	3358392	0.46	cps
Manganese	55-2	1680128	1698190	1688322	1688880	0.54	cps

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2585-03	Instrumnet Name :	P7
Client Sample ID :	1A	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 15:24:16	DataFile Name :	044SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Molybdenum	94-1	151657	151177	155067	152634	1.39	cps
Molybdenum	95-1	178648	178987	180543	179392	0.56	cps
Molybdenum	96-1	197583	202013	202730	200775	1.39	cps
Molybdenum	97-1	110216	110761	113375	111450	1.52	cps
Molybdenum	98-1	287302	294354	288331	289996	1.31	cps
Neodymium	150-1	47369	47203	47957	47510	0.83	cps
Neodymium	150-2	17795	17558	17525	17626	0.84	cps
Nickel	60-2	40870	41338	40723	40977	0.78	cps
Phosphorus	31-2	6660	6935	6735	6777	2.10	cps
Potassium	39-2	2924003	2941913	2942264	2936060	0.36	cps
Rhodium	103-1	12430522	12521593	12515156	12489090	0.41	cps
Rhodium	103-2	5781773	5829917	5968874	5860188	1.66	cps
Scandium	45-2	397090	400186	396914	398063	0.46	cps
Scandium	45-1	8966891	9073403	9102109	9047467	0.79	cps
Selenium	82-1	554	789	487	610	25.94	cps
Selenium	77-2	80	107	103	97	15.03	cps
Selenium	78-2	202	163	198	188	11.44	cps
Silicon	28-1	101550242	103077948	102171079	102266423	0.75	cps
Silver	109-1	8653	8161	7427	8080	7.63	cps
Silver	107-1	8311	9003	8169	8495	5.25	cps
Sodium	23-2	122346499	121284036	121777324	121802619	0.44	cps
Strontium	88-1	45807203	45795992	46530846	46044680	0.91	cps
Strontium	86-1	5227635	5220894	5282070	5243533	0.64	cps
Sulfur	34-1	1539901	1529398	1517004	1528767	0.75	cps
Terbium	159-1	17674901	17870553	17836141	17793865	0.59	cps
Terbium	159-2	8075615	8234449	8190543	8166869	1.00	cps
Thallium	203-1	1950	1725	1567	1747	11.03	cps
Thallium	205-1	4184	4276	4251	4237	1.12	cps
Tin	118-1	58632	59325	57552	58503	1.53	cps
Titanium	47-1	556257	546187	556736	553060	1.08	cps
Uranium	238-1	98155	100859	100682	99899	1.51	cps
Vanadium	51-2	280288	280355	277961	279535	0.49	cps
Yttrium	89-1	14660029	14631450	14826958	14706146	0.72	cps
Yttrium	89-2	1995039	2000804	2002901	1999581	0.20	cps
Zinc	66-2	110313	109003	110258	109858	0.67	cps
Zirconium	90-1	138877	138791	139314	138994	0.20	cps

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LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2585-03	Instrumnet Name :	P7
Client Sample ID :	1A	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 15:24:16	DataFile Name :	044SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Zirconium	91-1	30642	31520	31060	31074	1.41	cps

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2700-01	Instrumnet Name :	P7
Client Sample ID :	S8-0651	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 15:27:50	DataFile Name :	045SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	408	750	917	692	37.47	cps
Antimony	121-1	9203	10329	10655	10062	7.57	cps
Arsenic	75-2	28422	28548	28021	28331	0.97	cps
Barium	135-1	135009	139233	139101	137781	1.74	cps
Barium	137-1	241009	240281	239319	240203	0.35	cps
Beryllium	9-1	89	78	144	104	34.44	cps
Bismuth	209-1	11415327	11451228	11304093	11390216	0.67	cps
Bismuth	209-2	6249694	6315528	6259771	6274998	0.57	cps
Boron	10-1	9203	8986	8678	8956	2.95	cps
Boron	11-1	42678	43714	42753	43048	1.34	cps
Cadmium	111-1	870	978	1029	959	8.43	cps
Cadmium	106-1	4192	4751	4784	4576	7.27	cps
Cadmium	108-1	17	17	13	15	15.76	cps
Calcium	43-1	2293469	2300081	2318280	2303943	0.56	cps
Calcium	44-1	37639332	37815908	38620527	38025256	1.38	cps
Chromium	52-2	3227	3097	3047	3124	2.98	cps
Cobalt	59-2	32312	33569	32820	32900	1.92	cps
Copper	63-2	29253	29490	29443	29395	0.43	cps
Dysprosium	156-2	1377	1397	1453	1409	2.82	cps
Dysprosium	156-1	3334	3167	3309	3270	2.75	cps
Erbium	164-1	3134	3075	3276	3162	3.25	cps
Erbium	164-2	1567	1573	1603	1581	1.24	cps
Gadolinium	160-2	1537	1567	1573	1559	1.25	cps
Gadolinium	160-1	2909	3151	2734	2931	7.14	cps
Holmium	165-1	17419861	17532119	17392313	17448098	0.42	cps
Holmium	165-2	8478659	8408563	8326311	8404511	0.91	cps
Indium	115-2	2591608	2596427	2612879	2600304	0.43	cps
Indium	115-1	14607695	14699069	14638040	14648268	0.32	cps
Iron	56-2	38361524	38669281	38610433	38547080	0.42	cps
Iron	57-2	923706	935963	929521	929730	0.66	cps
Lead	206-1	3339	3234	3200	3258	2.23	cps
Lead	207-1	2873	2756	2978	2869	3.88	cps
Lead	208-1	13403	12569	13309	13094	3.49	cps
Lithium	6-1	1600647	1615423	1604860	1606977	0.47	cps
Magnesium	24-2	3910594	3968455	3942133	3940394	0.74	cps
Manganese	55-2	15052757	15246474	15073947	15124393	0.70	cps

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2700-01	Instrumnet Name :	P7
Client Sample ID :	S8-0651	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 15:27:50	DataFile Name :	045SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Molybdenum	94-1	4076	3776	4551	4134	9.46	cps
Molybdenum	95-1	5285	6268	6418	5990	10.28	cps
Molybdenum	96-1	6160	6552	7002	6571	6.41	cps
Molybdenum	97-1	3251	3301	3692	3414	7.09	cps
Molybdenum	98-1	8186	8828	9312	8775	6.44	cps
Neodymium	150-1	4261	4081	4381	4241	3.56	cps
Neodymium	150-2	1533	1713	1627	1625	5.54	cps
Nickel	60-2	7735	7495	7412	7548	2.23	cps
Phosphorus	31-2	417	550	575	514	16.56	cps
Potassium	39-2	854564	860360	853939	856288	0.41	cps
Rhodium	103-1	12887440	13014605	12928742	12943596	0.50	cps
Rhodium	103-2	6224397	6208969	6286812	6240059	0.66	cps
Scandium	45-2	393437	397618	397981	396345	0.64	cps
Scandium	45-1	8786517	8894015	8919546	8866693	0.80	cps
Selenium	82-1	187	161	116	155	23.37	cps
Selenium	77-2	10	30	13	18	60.28	cps
Selenium	78-2	150	87	170	136	31.99	cps
Silicon	28-1	87369071	87042127	87563835	87325011	0.30	cps
Silver	109-1	4343	4834	4859	4679	6.23	cps
Silver	107-1	4759	4809	4876	4815	1.22	cps
Sodium	23-2	18525692	18639061	18558564	18574439	0.31	cps
Strontium	86-1	1894722	1894493	1897247	1895487	0.08	cps
Strontium	88-1	16636651	16799349	16654033	16696678	0.54	cps
Sulfur	34-1	1911419	1904967	1909653	1908680	0.17	cps
Terbium	159-1	18100258	18199091	18084278	18127876	0.34	cps
Terbium	159-2	8260280	8364939	8332647	8319289	0.64	cps
Thallium	203-1	317	267	375	319	16.97	cps
Thallium	205-1	1075	958	975	1003	6.29	cps
Tin	118-1	3334	3584	3834	3584	6.98	cps
Titanium	47-1	1975	1809	2059	1947	6.54	cps
Uranium	238-1	13307	13224	13049	13193	1.00	cps
Vanadium	51-2	723	690	697	703	2.51	cps
Yttrium	89-2	1976950	2001253	1993661	1990621	0.62	cps
Yttrium	89-1	14658048	14591201	14636494	14628581	0.23	cps
Zinc	66-2	3857	3801	3927	3862	1.64	cps
Zirconium	91-1	533	533	633	567	10.19	cps

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LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2700-01	Instrumnet Name :	P7
Client Sample ID :	S8-0651	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 15:27:50	DataFile Name :	045SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Zirconium	90-1	2000	2175	2475	2217	10.84	cps

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	CCV66	Instrumnet Name :	P7
Client Sample ID :	CCV66	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 15:31:19	DataFile Name :	046CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1481117	1503511	1487748	1490792	0.77	cps
Antimony	121-1	8471527	8354469	8299936	8375311	1.05	cps
Arsenic	75-2	317142	316895	319478	317838	0.45	cps
Barium	135-1	10075111	10140761	10150093	10121989	0.40	cps
Barium	137-1	17498263	17616176	17461906	17525448	0.46	cps
Beryllium	9-1	1411184	1401380	1405431	1405998	0.35	cps
Bismuth	209-1	11564701	11579661	11434889	11526417	0.69	cps
Bismuth	209-2	6475032	6605134	6509547	6529904	1.03	cps
Boron	10-1	201038	203433	204396	202956	0.85	cps
Boron	11-1	971426	972169	981384	974993	0.57	cps
Cadmium	106-1	244393	242687	244747	243942	0.45	cps
Cadmium	108-1	159137	159337	159110	159195	0.08	cps
Cadmium	111-1	2063936	2071429	2059340	2064902	0.30	cps
Calcium	43-1	2453244	2433993	2449212	2445483	0.42	cps
Calcium	44-1	40805379	40199884	40574078	40526447	0.75	cps
Chromium	52-2	2777273	2801672	2796497	2791814	0.46	cps
Cobalt	59-2	4494833	4536266	4559005	4530034	0.72	cps
Copper	63-2	6731130	6745803	6745783	6740905	0.13	cps
Dysprosium	156-2	27	33	37	32	15.80	cps
Dysprosium	156-1	150	83	142	125	29.06	cps
Erbium	164-1	75	58	75	69	13.85	cps
Erbium	164-2	37	13	47	32	53.10	cps
Gadolinium	160-2	57	67	73	66	12.80	cps
Gadolinium	160-1	133	217	175	175	23.81	cps
Holmium	165-2	8792887	8794380	8805272	8797513	0.08	cps
Holmium	165-1	18020209	18224529	17972464	18072401	0.74	cps
Indium	115-1	14670323	14765280	14661508	14699037	0.39	cps
Indium	115-2	2662634	2707269	2705890	2691931	0.94	cps
Iron	56-2	115451641	115714541	115212853	115459679	0.22	cps
Iron	57-2	2789537	2795470	2788521	2791176	0.13	cps
Lead	206-1	6470295	6485422	6461895	6472538	0.18	cps
Lead	207-1	5865283	5876406	5869642	5870443	0.10	cps
Lead	208-1	26495246	26579021	26518625	26530964	0.16	cps
Lithium	6-1	1545983	1543678	1535299	1541653	0.36	cps
Magnesium	24-2	19737204	20024812	19854201	19872072	0.73	cps
Manganese	55-2	2993658	3002753	2996102	2997504	0.16	cps

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	CCV66	Instrumnet Name :	P7
Client Sample ID :	CCV66	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 15:31:19	DataFile Name :	046CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Molybdenum	94-1	7837472	7786796	7681489	7768586	1.02	cps
Molybdenum	95-1	4120587	4063612	4057901	4080700	0.85	cps
Molybdenum	96-1	5325051	5284283	5247422	5285585	0.73	cps
Molybdenum	97-1	2559369	2533896	2530355	2541207	0.62	cps
Molybdenum	98-1	6728292	6724360	6724944	6725865	0.03	cps
Neodymium	150-1	527	480	613	540	12.53	cps
Neodymium	150-2	37	57	37	43	26.64	cps
Nickel	60-2	1207086	1206699	1211306	1208364	0.21	cps
Phosphorus	31-2	89963	90751	91874	90863	1.06	cps
Potassium	39-2	9921814	10000488	9989553	9970618	0.43	cps
Rhodium	103-2	6352533	6340469	6318410	6337137	0.27	cps
Rhodium	103-1	13307662	13362234	13325599	13331832	0.21	cps
Scandium	45-1	9367089	9225087	9318483	9303553	0.78	cps
Scandium	45-2	427249	433582	433253	431361	0.83	cps
Selenium	77-2	6051	6358	6195	6201	2.48	cps
Selenium	78-2	20607	20587	20928	20707	0.92	cps
Selenium	82-1	135519	134168	135914	135200	0.68	cps
Silicon	28-1	5040727	5071625	5088985	5067112	0.48	cps
Silver	109-1	10413023	10375720	10367834	10385526	0.23	cps
Silver	107-1	10669549	10773086	10754473	10732370	0.51	cps
Sodium	23-2	39258907	39922336	39361914	39514386	0.90	cps
Strontium	86-1	3072069	3058325	3040157	3056850	0.52	cps
Strontium	88-1	27095046	26884651	26868822	26949507	0.47	cps
Sulfur	34-1	1614955	1604748	1610104	1609936	0.32	cps
Terbium	159-1	18521303	18693069	18359726	18524699	0.90	cps
Terbium	159-2	8661979	8686572	8793039	8713863	0.80	cps
Thallium	203-1	8240649	8272398	8298819	8270622	0.35	cps
Thallium	205-1	19594929	19580498	19651316	19608914	0.19	cps
Tin	118-1	7001488	6973085	7004463	6993012	0.25	cps
Titanium	47-1	1219968	1200420	1208908	1209765	0.81	cps
Uranium	238-1	26930590	26869127	27078259	26959325	0.40	cps
Vanadium	51-2	2260391	2264988	2264081	2263153	0.11	cps
Yttrium	89-2	2075678	2112803	2103380	2097287	0.92	cps
Yttrium	89-1	15146122	15051651	15025834	15074536	0.42	cps
Zinc	66-2	926399	928624	926695	927239	0.13	cps
Zirconium	90-1	14919115	14716505	14692824	14776148	0.84	cps

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	CCV66	Instrumnet Name :	P7
Client Sample ID :	CCV66	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 15:31:19	DataFile Name :	046CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Zirconium	91-1	3243690	3222513	3195468	3220557	0.75	cps

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Inst Id :P7
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LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	CCB66	Instrumnet Name :	P7
Client Sample ID :	CCB66	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 15:39:43	DataFile Name :	047CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	58	58	92	69	27.71	cps
Antimony	121-1	12289	16352	20441	16361	24.91	cps
Arsenic	75-2	94	94	111	100	9.62	cps
Barium	135-1	125	150	142	139	9.16	cps
Barium	137-1	142	350	233	242	43.21	cps
Beryllium	9-1	106	72	122	100	25.46	cps
Bismuth	209-1	12017068	12232744	12196142	12148651	0.95	cps
Bismuth	209-2	6807943	7105673	6838700	6917439	2.37	cps
Boron	10-1	1959	2034	2100	2031	3.49	cps
Boron	11-1	9478	9036	9228	9248	2.40	cps
Cadmium	106-1	5059	4709	5168	4979	4.81	cps
Cadmium	108-1	38	4	46	29	75.58	cps
Cadmium	111-1	1039	989	1044	1024	2.94	cps
Calcium	43-1	550	1092	375	672	55.62	cps
Calcium	44-1	27151	31112	26959	28407	8.25	cps
Chromium	52-2	843	933	767	848	9.84	cps
Cobalt	59-2	73	93	83	83	12.01	cps
Copper	63-2	12222	11945	12169	12112	1.21	cps
Dysprosium	156-2	7	3	3	4	43.40	cps
Dysprosium	156-1	25	25	0	17	86.60	cps
Erbium	164-1	17	83	33	44	78.07	cps
Erbium	164-2	17	23	20	20	16.65	cps
Gadolinium	160-2	80	30	43	51	50.66	cps
Gadolinium	160-1	58	183	117	119	52.36	cps
Holmium	165-1	18186644	18157119	17961888	18101884	0.67	cps
Holmium	165-2	8816108	8893485	8976919	8895504	0.90	cps
Indium	115-2	2764352	2751940	2756380	2757557	0.23	cps
Indium	115-1	15133879	15176631	14988702	15099737	0.65	cps
Iron	56-2	9159	9259	9009	9142	1.38	cps
Iron	57-2	233	261	172	222	20.46	cps
Lead	206-1	1761	1872	1745	1793	3.88	cps
Lead	207-1	1422	1545	1411	1459	5.07	cps
Lead	208-1	7095	7245	6918	7086	2.32	cps
Lithium	6-1	1594614	1571098	1569760	1578491	0.89	cps
Magnesium	24-2	283	325	358	322	11.66	cps
Manganese	55-2	210	240	180	210	14.29	cps

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	CCB66	Instrumnet Name :	P7
Client Sample ID :	CCB66	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 15:39:43	DataFile Name :	047CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Molybdenum	94-1	1175	1383	2009	1522	28.49	cps
Molybdenum	95-1	1483	1984	2550	2006	26.61	cps
Molybdenum	96-1	1592	2375	3017	2328	30.66	cps
Molybdenum	97-1	750	1333	1875	1320	42.64	cps
Molybdenum	98-1	2150	3226	4484	3287	35.54	cps
Neodymium	150-1	7	13	0	7	99.98	cps
Neodymium	150-2	0	0	3	1	173.21	cps
Nickel	60-2	297	270	307	291	6.51	cps
Phosphorus	31-2	492	517	467	492	5.09	cps
Potassium	39-2	57119	58199	58090	57803	1.03	cps
Rhodium	103-1	14127053	14068804	14066899	14087586	0.24	cps
Rhodium	103-2	6692541	6728690	6823112	6748115	1.00	cps
Scandium	45-2	439048	440762	437973	439261	0.32	cps
Scandium	45-1	9456950	9523385	9478237	9486191	0.36	cps
Selenium	82-1	-40	29	254	81	189.57	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	124	130	148	134	9.41	cps
Silicon	28-1	526192	529257	521588	525679	0.73	cps
Silver	109-1	1275	1175	1075	1175	8.51	cps
Silver	107-1	1183	1283	1217	1228	4.15	cps
Sodium	23-2	55503	53872	53613	54330	1.89	cps
Strontium	86-1	7377	7586	6977	7313	4.23	cps
Strontium	88-1	1092	2830	975	1632	63.65	cps
Sulfur	34-1	779087	773887	776167	776380	0.34	cps
Terbium	159-1	18809707	18795452	18597550	18734236	0.63	cps
Terbium	159-2	8827747	8728448	8696885	8751027	0.78	cps
Thallium	203-1	333	367	267	322	15.80	cps
Thallium	205-1	825	992	800	872	11.96	cps
Tin	118-1	1225	1792	1784	1600	20.30	cps
Titanium	47-1	200	150	225	192	19.92	cps
Uranium	238-1	283	292	225	267	13.62	cps
Vanadium	51-2	57	40	70	56	27.06	cps
Yttrium	89-2	2158376	2154724	2161568	2158223	0.16	cps
Yttrium	89-1	15638548	15368883	15439263	15482231	0.90	cps
Zinc	66-2	303	277	283	288	4.82	cps
Zirconium	90-1	1325	1609	1525	1486	9.80	cps

Reviewed By:jaswal
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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	CCB66	Instrumnet Name :	P7
Client Sample ID :	CCB66	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 15:39:43	DataFile Name :	047CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Zirconium	91-1	267	375	242	294	24.07	cps

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2700-02	Instrumnet Name :	P7
Client Sample ID :	S8-0652	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 15:43:12	DataFile Name :	048SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	683	483	600	589	17.06	cps
Antimony	121-1	32213	35053	38371	35212	8.75	cps
Arsenic	75-2	27237	27016	27457	27237	0.81	cps
Barium	135-1	132376	132181	133032	132530	0.34	cps
Barium	137-1	231577	233341	234269	233062	0.59	cps
Beryllium	9-1	111	106	56	91	33.72	cps
Bismuth	209-1	11216666	11373594	11478922	11356394	1.16	cps
Bismuth	209-2	6196677	6252687	6282309	6243891	0.70	cps
Boron	10-1	8194	8561	9095	8617	5.26	cps
Boron	11-1	39678	40538	40864	40360	1.52	cps
Cadmium	106-1	4284	4676	4551	4504	4.44	cps
Cadmium	108-1	25	46	17	29	51.50	cps
Cadmium	111-1	1117	1137	1050	1101	4.12	cps
Calcium	43-1	2199820	2214692	2206377	2206963	0.34	cps
Calcium	44-1	36664942	36734792	36859200	36752978	0.27	cps
Chromium	52-2	3124	3444	3214	3260	5.06	cps
Cobalt	59-2	31013	31978	31614	31535	1.55	cps
Copper	63-2	34407	34420	34945	34591	0.89	cps
Dysprosium	156-1	3242	3234	3159	3212	1.43	cps
Dysprosium	156-2	1250	1263	1403	1306	6.51	cps
Erbium	164-1	2950	2792	3334	3025	9.21	cps
Erbium	164-2	1407	1467	1300	1391	6.07	cps
Gadolinium	160-2	1523	1580	1453	1519	4.18	cps
Gadolinium	160-1	2742	3050	2692	2828	6.86	cps
Holmium	165-1	17061172	17393256	17302354	17252261	0.99	cps
Holmium	165-2	8340491	8320104	8363909	8341501	0.26	cps
Indium	115-2	2566117	2595423	2591667	2584402	0.62	cps
Indium	115-1	14382593	14476774	14687485	14515617	1.08	cps
Iron	56-2	36946804	36983515	37232761	37054360	0.42	cps
Iron	57-2	888250	895152	897314	893572	0.53	cps
Lead	206-1	3389	3095	3362	3282	4.95	cps
Lead	207-1	2889	2806	2817	2837	1.60	cps
Lead	208-1	12858	13242	13142	13081	1.52	cps
Lithium	6-1	1616184	1637365	1668468	1640672	1.60	cps
Magnesium	24-2	3778276	3817752	3791360	3795796	0.53	cps
Manganese	55-2	14348258	14545161	14633844	14509087	1.01	cps

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2700-02	Instrumnet Name :	P7
Client Sample ID :	S8-0652	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 15:43:12	DataFile Name :	048SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Molybdenum	94-1	4868	5226	5560	5218	6.63	cps
Molybdenum	95-1	5460	6185	5926	5857	6.28	cps
Molybdenum	96-1	5910	6635	6735	6427	7.01	cps
Molybdenum	97-1	3409	3717	3867	3665	6.38	cps
Molybdenum	98-1	8645	9195	9754	9198	6.03	cps
Neodymium	150-2	1540	1637	1440	1539	6.39	cps
Neodymium	150-1	4314	4501	4388	4401	2.14	cps
Nickel	60-2	7075	7455	7435	7322	2.92	cps
Phosphorus	31-2	558	508	508	525	5.50	cps
Potassium	39-2	818994	819309	821394	819899	0.16	cps
Rhodium	103-2	6143853	6102932	6127603	6124796	0.34	cps
Rhodium	103-1	12607217	12649080	12614279	12623525	0.18	cps
Scandium	45-1	8711995	8843320	8708971	8754762	0.88	cps
Scandium	45-2	385228	387500	389681	387470	0.57	cps
Selenium	77-2	17	30	27	24	28.38	cps
Selenium	78-2	130	111	117	119	7.98	cps
Selenium	82-1	275	215	325	272	20.23	cps
Silicon	28-1	83314871	83368310	83119781	83267654	0.16	cps
Silver	107-1	9654	8962	8545	9053	6.19	cps
Silver	109-1	8828	8269	8036	8378	4.86	cps
Sodium	23-2	17795768	18022259	17786433	17868153	0.75	cps
Strontium	86-1	1789422	1820020	1837701	1815714	1.35	cps
Strontium	88-1	15866394	16142778	16108781	16039318	0.94	cps
Sulfur	34-1	1834319	1830163	1831416	1831966	0.12	cps
Terbium	159-1	17517289	17688260	17922903	17709484	1.15	cps
Terbium	159-2	8241141	8171831	8276591	8229854	0.65	cps
Thallium	203-1	783	683	667	711	8.87	cps
Thallium	205-1	1483	1767	1483	1578	10.37	cps
Tin	118-1	5360	5310	5485	5385	1.67	cps
Titanium	47-1	2125	1842	1709	1892	11.25	cps
Uranium	238-1	12999	12340	12982	12773	2.94	cps
Vanadium	51-2	823	1007	913	914	10.03	cps
Yttrium	89-1	14069318	14543067	14567295	14393227	1.95	cps
Yttrium	89-2	1950308	1952985	1957850	1953714	0.20	cps
Zinc	66-2	4331	4414	4324	4356	1.15	cps
Zirconium	90-1	4559	5234	6027	5273	13.93	cps

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2700-02	Instrumnet Name :	P7
Client Sample ID :	S8-0652	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 15:43:12	DataFile Name :	048SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Zirconium	91-1	1067	1375	1500	1314	16.98	cps

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2700-02DLX20	Instrumnet Name :	P7
Client Sample ID :	S8-0652DL	Dilution Factor :	20
Date & Time Acquired ::	2017-04-18 15:46:40	DataFile Name :	049SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	108	83	108	100	14.43	cps
Antimony	121-1	2742	3176	3334	3084	9.94	cps
Arsenic	75-2	1596	1417	1493	1502	6.00	cps
Barium	135-1	7236	6835	6702	6924	4.01	cps
Barium	137-1	12590	12923	12715	12742	1.32	cps
Beryllium	9-1	117	122	89	109	16.35	cps
Bismuth	209-1	12122187	12211583	12161459	12165076	0.37	cps
Bismuth	209-2	6734436	6763926	6716009	6738124	0.36	cps
Boron	10-1	2117	1767	1867	1917	9.41	cps
Boron	11-1	9045	8820	9270	9045	2.49	cps
Cadmium	106-1	4943	5235	5418	5198	4.61	cps
Cadmium	108-1	13	25	25	21	34.64	cps
Cadmium	111-1	1002	1057	1094	1051	4.39	cps
Calcium	43-1	117901	117145	117791	117612	0.35	cps
Calcium	44-1	1953241	1939481	1943862	1945528	0.36	cps
Chromium	52-2	1027	993	983	1001	2.27	cps
Cobalt	59-2	1747	1830	1670	1749	4.58	cps
Copper	63-2	14704	15075	14678	14819	1.50	cps
Dysprosium	156-2	87	70	70	76	12.74	cps
Dysprosium	156-1	192	142	167	167	15.00	cps
Erbium	164-1	175	142	233	183	25.31	cps
Erbium	164-2	127	117	100	114	11.77	cps
Gadolinium	160-2	113	103	143	120	17.35	cps
Gadolinium	160-1	275	250	242	256	6.79	cps
Holmium	165-2	8822101	8926186	8852485	8866924	0.60	cps
Holmium	165-1	18237729	18192744	18389748	18273407	0.56	cps
Indium	115-1	15079219	15267301	15240570	15195697	0.67	cps
Indium	115-2	2693459	2752571	2709476	2718502	1.12	cps
Iron	56-2	1953318	1970227	1969335	1964293	0.48	cps
Iron	57-2	49021	48742	48882	48882	0.29	cps
Lead	206-1	1100	1361	1272	1245	10.67	cps
Lead	207-1	961	1095	1089	1048	7.20	cps
Lead	208-1	4445	4884	4862	4730	5.23	cps
Lithium	6-1	1605378	1592076	1596831	1598095	0.42	cps
Magnesium	24-2	209749	213762	209028	210846	1.21	cps
Manganese	55-2	773106	775984	773401	774164	0.20	cps

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2700-02DLX20	Instrumnet Name :	P7
Client Sample ID :	S8-0652DL	Dilution Factor :	20
Date & Time Acquired ::	2017-04-18 15:46:40	DataFile Name :	049SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Molybdenum	94-1	767	1000	1275	1014	25.10	cps
Molybdenum	95-1	950	1092	1533	1192	25.53	cps
Molybdenum	96-1	1008	1367	1517	1297	20.13	cps
Molybdenum	97-1	425	758	717	633	28.68	cps
Molybdenum	98-1	1333	1834	2175	1781	23.78	cps
Neodymium	150-1	227	287	300	271	14.41	cps
Neodymium	150-2	93	97	87	92	5.52	cps
Nickel	60-2	680	703	837	740	11.42	cps
Phosphorus	31-2	442	475	475	464	4.15	cps
Potassium	39-2	97461	99625	98987	98691	1.13	cps
Rhodium	103-2	6647301	6715979	6610054	6657778	0.81	cps
Rhodium	103-1	14099179	14013347	14042888	14051805	0.31	cps
Scandium	45-1	9514863	9537420	9451954	9501412	0.47	cps
Scandium	45-2	426559	436716	432691	431989	1.18	cps
Selenium	77-2	7	3	3	4	43.40	cps
Selenium	78-2	128	133	135	132	2.92	cps
Selenium	82-1	-283	-90	64	-103	-168.84	cps
Silicon	28-1	4985813	4998717	4966746	4983759	0.32	cps
Silver	109-1	1875	2092	2192	2053	7.89	cps
Silver	107-1	2125	2134	2150	2136	0.60	cps
Sodium	23-2	1014746	1024893	1014200	1017946	0.59	cps
Strontium	86-1	105218	102557	102926	103567	1.39	cps
Strontium	88-1	831826	833378	827791	830998	0.35	cps
Sulfur	34-1	836185	835948	842299	838144	0.43	cps
Terbium	159-1	18762161	18897388	18873737	18844429	0.38	cps
Terbium	159-2	8701962	8700526	8727942	8710143	0.18	cps
Thallium	203-1	75	183	150	136	40.77	cps
Thallium	205-1	467	450	342	419	16.18	cps
Tin	118-1	1142	1483	1383	1336	13.15	cps
Titanium	47-1	342	283	308	311	9.41	cps
Uranium	238-1	592	833	908	778	21.28	cps
Vanadium	51-2	150	103	83	112	30.48	cps
Yttrium	89-2	2095270	2120525	2105369	2107054	0.60	cps
Yttrium	89-1	15445596	15345856	15498402	15429951	0.50	cps
Zinc	66-2	523	617	580	573	8.20	cps
Zirconium	90-1	1067	1000	1250	1106	11.71	cps

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2700-02DLX20	Instrumnet Name :	P7
Client Sample ID :	S8-0652DL	Dilution Factor :	20
Date & Time Acquired ::	2017-04-18 15:46:40	DataFile Name :	049SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Zirconium	91-1	233	158	300	231	30.74	cps

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2700-05	Instrumnet Name :	P7
Client Sample ID :	S8-0658	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 15:50:10	DataFile Name :	050SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	3092	3059	3276	3142	3.71	cps
Antimony	121-1	14341	14742	15159	14747	2.77	cps
Arsenic	75-2	1185	1245	1226	1219	2.49	cps
Barium	135-1	28355	27127	26651	27378	3.21	cps
Barium	137-1	48026	48327	47031	47795	1.42	cps
Beryllium	9-1	117	106	122	115	7.39	cps
Bismuth	209-1	11368427	11511662	11537879	11472656	0.80	cps
Bismuth	209-2	6258287	6292801	6337062	6296050	0.63	cps
Boron	10-1	4701	4709	5259	4890	6.55	cps
Boron	11-1	24613	24654	25164	24810	1.24	cps
Cadmium	106-1	4884	4826	4768	4826	1.21	cps
Cadmium	108-1	46	29	21	32	39.85	cps
Cadmium	111-1	1116	1144	1058	1106	3.96	cps
Calcium	43-1	1246234	1247268	1237051	1243518	0.45	cps
Calcium	44-1	20470800	20719508	20583337	20591215	0.60	cps
Chromium	52-2	4701	4471	4788	4653	3.52	cps
Cobalt	59-2	19987	20057	19767	19937	0.76	cps
Copper	63-2	46601	46223	46263	46362	0.45	cps
Dysprosium	156-2	223	227	277	242	12.33	cps
Dysprosium	156-1	392	458	458	436	8.83	cps
Erbium	164-1	542	642	608	597	8.53	cps
Erbium	164-2	287	283	267	279	3.84	cps
Gadolinium	160-2	343	253	320	306	15.29	cps
Gadolinium	160-1	650	583	458	564	17.26	cps
Holmium	165-2	8416839	8484960	8477157	8459652	0.44	cps
Holmium	165-1	17383657	17592157	17414079	17463298	0.64	cps
Indium	115-1	14226207	14360939	14548135	14378427	1.12	cps
Indium	115-2	2553488	2565412	2566432	2561778	0.28	cps
Iron	56-2	27094561	27089111	27132681	27105451	0.09	cps
Iron	57-2	653167	651710	652030	652303	0.12	cps
Lead	206-1	5979	6124	6396	6166	3.43	cps
Lead	207-1	5090	5474	5485	5349	4.20	cps
Lead	208-1	23898	24648	24954	24500	2.22	cps
Lithium	6-1	1584131	1588665	1614897	1595898	1.04	cps
Magnesium	24-2	2937796	2942496	2934810	2938367	0.13	cps
Manganese	55-2	121597	121819	121305	121574	0.21	cps

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On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2700-05	Instrumnet Name :	P7
Client Sample ID :	S8-0658	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 15:50:10	DataFile Name :	050SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Molybdenum	94-1	2542	2600	3251	2798	14.06	cps
Molybdenum	95-1	2692	2692	3125	2837	8.82	cps
Molybdenum	96-1	3376	3742	4001	3706	8.48	cps
Molybdenum	97-1	1600	1709	1959	1756	10.47	cps
Molybdenum	98-1	4192	4759	5118	4690	9.95	cps
Neodymium	150-1	527	560	500	529	5.68	cps
Neodymium	150-2	163	197	197	186	10.37	cps
Nickel	60-2	14661	14714	14347	14574	1.36	cps
Phosphorus	31-2	542	558	500	533	5.63	cps
Potassium	39-2	529882	535600	529418	531633	0.65	cps
Rhodium	103-2	6217932	6277621	6243168	6246240	0.48	cps
Rhodium	103-1	13024448	13182643	13033448	13080180	0.68	cps
Scandium	45-1	8807646	8903556	8930123	8880442	0.73	cps
Scandium	45-2	392175	397600	395314	395030	0.69	cps
Selenium	77-2	3	3	10	6	69.34	cps
Selenium	78-2	135	124	124	128	5.02	cps
Selenium	82-1	205	207	140	184	20.74	cps
Silicon	28-1	41266873	41557709	41145770	41323451	0.51	cps
Silver	109-1	5134	5393	5134	5221	2.86	cps
Silver	107-1	5043	5468	5501	5337	4.79	cps
Sodium	23-2	10907952	10960443	10939179	10935858	0.24	cps
Strontium	86-1	778822	784988	782103	781971	0.39	cps
Strontium	88-1	6868424	6930942	6917971	6905779	0.48	cps
Sulfur	34-1	1171600	1175420	1157097	1168039	0.83	cps
Terbium	159-1	17757240	18311138	18152966	18073781	1.58	cps
Terbium	159-2	8308524	8403229	8312848	8341534	0.64	cps
Thallium	203-1	392	350	200	314	32.12	cps
Thallium	205-1	658	675	642	658	2.53	cps
Tin	118-1	3551	3301	4217	3690	12.85	cps
Titanium	47-1	1450	1759	1859	1689	12.60	cps
Uranium	238-1	11214	11272	11122	11203	0.68	cps
Vanadium	51-2	3574	3540	3467	3527	1.55	cps
Yttrium	89-2	1980723	1977560	1975839	1978041	0.13	cps
Yttrium	89-1	14470697	14722193	14619614	14604168	0.87	cps
Zinc	66-2	4874	4828	4968	4890	1.46	cps
Zirconium	90-1	3401	3442	3559	3467	2.37	cps

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2700-05	Instrumnet Name :	P7
Client Sample ID :	S8-0658	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 15:50:10	DataFile Name :	050SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Zirconium	91-1	1084	667	817	856	24.70	cps

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2700-05DLX20	Instrumnet Name :	P7
Client Sample ID :	S8-0658DL	Dilution Factor :	20
Date & Time Acquired ::	2017-04-18 15:53:39	DataFile Name :	051SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	258	267	258	261	1.84	cps
Antimony	121-1	1734	1717	1950	1800	7.23	cps
Arsenic	75-2	113	107	89	103	12.23	cps
Barium	135-1	1400	1333	1350	1361	2.55	cps
Barium	137-1	2559	2600	2767	2642	4.17	cps
Beryllium	9-1	106	133	67	102	32.88	cps
Bismuth	209-2	6669654	6694605	6694511	6686257	0.22	cps
Bismuth	209-1	12210536	12117179	12186287	12171334	0.40	cps
Boron	10-1	1317	1492	1250	1353	9.23	cps
Boron	11-1	6552	6260	6177	6329	3.11	cps
Cadmium	106-1	5185	5118	5284	5196	1.61	cps
Cadmium	108-1	21	13	17	17	24.99	cps
Cadmium	111-1	1045	1024	1072	1047	2.27	cps
Calcium	43-1	66567	64768	65304	65546	1.41	cps
Calcium	44-1	1083373	1082037	1082815	1082742	0.06	cps
Chromium	52-2	1030	1087	1087	1068	3.06	cps
Cobalt	59-2	1183	1113	1087	1128	4.43	cps
Copper	63-2	14768	15051	15175	14998	1.39	cps
Dysprosium	156-2	20	27	20	22	17.33	cps
Dysprosium	156-1	58	33	42	44	28.65	cps
Erbium	164-1	92	58	58	69	27.71	cps
Erbium	164-2	47	47	43	46	4.23	cps
Gadolinium	160-2	87	53	60	67	26.46	cps
Gadolinium	160-1	183	133	150	156	16.37	cps
Holmium	165-1	18132446	18198720	18452705	18261290	0.93	cps
Holmium	165-2	8824089	8880781	8819380	8841417	0.39	cps
Indium	115-2	2707230	2716935	2734629	2719598	0.51	cps
Indium	115-1	15126146	14978179	15180579	15094968	0.69	cps
Iron	56-2	1394530	1391353	1396898	1394261	0.20	cps
Iron	57-2	34246	34814	34536	34532	0.82	cps
Lead	206-1	1345	1472	1422	1413	4.56	cps
Lead	207-1	1183	1245	1206	1211	2.55	cps
Lead	208-1	5506	5662	5651	5606	1.55	cps
Lithium	6-1	1615531	1600762	1606267	1607520	0.46	cps
Magnesium	24-2	157115	157106	159650	157957	0.93	cps
Manganese	55-2	6875	6765	6465	6702	3.17	cps

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2700-05DLX20	Instrumnet Name :	P7
Client Sample ID :	S8-0658DL	Dilution Factor :	20
Date & Time Acquired ::	2017-04-18 15:53:39	DataFile Name :	051SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Molybdenum	94-1	542	683	758	661	16.64	cps
Molybdenum	95-1	483	717	775	658	23.44	cps
Molybdenum	96-1	733	792	1100	875	22.52	cps
Molybdenum	97-1	375	383	492	417	15.62	cps
Molybdenum	98-1	892	892	1292	1025	22.53	cps
Neodymium	150-2	7	20	10	12	56.76	cps
Neodymium	150-1	20	40	40	33	34.64	cps
Nickel	60-2	1140	1090	1033	1088	4.91	cps
Phosphorus	31-2	542	417	550	503	14.86	cps
Potassium	39-2	82630	81682	81825	82046	0.62	cps
Rhodium	103-2	6676590	6662825	6675042	6671486	0.11	cps
Rhodium	103-1	14008691	14025107	14109491	14047763	0.39	cps
Scandium	45-1	9494796	9395118	9577163	9489025	0.96	cps
Scandium	45-2	433683	429544	429867	431031	0.53	cps
Selenium	82-1	-37	-177	-224	-146	-66.47	cps
Selenium	77-2	3	3	0	2	86.60	cps
Selenium	78-2	143	111	113	122	14.45	cps
Silicon	28-1	3328640	3317753	3308684	3318359	0.30	cps
Silver	107-1	1392	1492	1575	1486	6.18	cps
Silver	109-1	1292	1308	1358	1320	2.63	cps
Sodium	23-2	617354	616632	617433	617140	0.07	cps
Strontium	86-1	48499	47178	46660	47446	2.00	cps
Strontium	88-1	351738	352775	352041	352185	0.15	cps
Sulfur	34-1	814348	832054	830369	825590	1.18	cps
Terbium	159-2	8788412	8738455	8812531	8779800	0.43	cps
Terbium	159-1	18883636	18864936	18886682	18878418	0.06	cps
Thallium	203-1	92	142	100	111	24.11	cps
Thallium	205-1	292	200	375	289	30.30	cps
Tin	118-1	1075	1158	1400	1211	13.94	cps
Titanium	47-1	317	392	333	347	11.34	cps
Uranium	238-1	633	592	767	664	13.77	cps
Vanadium	51-2	227	233	207	222	6.25	cps
Yttrium	89-1	15636801	15304738	15426256	15455932	1.09	cps
Yttrium	89-2	2103413	2105459	2118162	2109011	0.38	cps
Zinc	66-2	617	560	577	584	4.98	cps
Zirconium	90-1	1033	933	1033	1000	5.77	cps

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2700-05DLX20	Instrumnet Name :	P7
Client Sample ID :	S8-0658DL	Dilution Factor :	20
Date & Time Acquired ::	2017-04-18 15:53:39	DataFile Name :	051SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Zirconium	91-1	225	267	267	253	9.52	cps

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2700-06	Instrumnet Name :	P7
Client Sample ID :	S8-EB-2017-1	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 15:57:09	DataFile Name :	052SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	392	408	442	414	6.15	cps
Antimony	121-1	7636	7369	7269	7425	2.55	cps
Arsenic	75-2	130	109	106	115	11.29	cps
Barium	135-1	1525	1592	1392	1503	6.78	cps
Barium	137-1	2800	2834	2517	2717	6.41	cps
Beryllium	9-1	39	117	111	89	48.81	cps
Bismuth	209-2	6343925	6369616	6307727	6340422	0.49	cps
Bismuth	209-1	11469486	11340092	11499629	11436402	0.74	cps
Boron	10-1	2850	2667	2684	2734	3.71	cps
Boron	11-1	14015	13090	12998	13368	4.21	cps
Cadmium	106-1	5051	5001	4701	4918	3.85	cps
Cadmium	108-1	21	38	46	35	36.66	cps
Cadmium	111-1	1098	1094	1009	1067	4.74	cps
Calcium	43-1	3409	3442	3351	3401	1.36	cps
Calcium	44-1	75795	73768	76281	75281	1.77	cps
Chromium	52-2	2927	2750	2827	2835	3.13	cps
Cobalt	59-2	173	223	230	209	14.83	cps
Copper	63-2	54290	54013	53434	53912	0.81	cps
Dysprosium	156-1	25	50	17	31	56.77	cps
Dysprosium	156-2	13	7	17	12	41.65	cps
Erbium	164-1	92	83	67	81	15.80	cps
Erbium	164-2	27	40	17	28	42.13	cps
Gadolinium	160-1	92	125	117	111	15.61	cps
Gadolinium	160-2	30	53	30	38	35.66	cps
Holmium	165-2	8347315	8279003	8253216	8293178	0.59	cps
Holmium	165-1	17306500	17158833	17363414	17276249	0.61	cps
Indium	115-1	14248959	14145603	14214415	14202992	0.37	cps
Indium	115-2	2551307	2553479	2536680	2547155	0.36	cps
Iron	56-2	58015	59590	57128	58244	2.14	cps
Iron	57-2	1456	1422	1356	1411	3.61	cps
Lead	206-1	4695	4790	5029	4838	3.55	cps
Lead	207-1	4229	3890	3940	4019	4.55	cps
Lead	208-1	19379	19178	19250	19269	0.53	cps
Lithium	6-1	1545170	1545036	1558643	1549616	0.50	cps
Magnesium	24-2	2542	2517	2650	2570	2.76	cps
Manganese	55-2	6408	6248	6288	6315	1.32	cps

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LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2700-06	Instrumnet Name :	P7
Client Sample ID :	S8-EB-2017-1	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 15:57:09	DataFile Name :	052SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Molybdenum	94-1	858	1050	1158	1022	14.86	cps
Molybdenum	95-1	492	458	767	572	29.57	cps
Molybdenum	96-1	642	767	950	786	19.73	cps
Molybdenum	97-1	292	358	425	358	18.61	cps
Molybdenum	98-1	750	683	1375	936	40.76	cps
Neodymium	150-1	73	33	53	53	37.51	cps
Neodymium	150-2	13	10	13	12	15.73	cps
Nickel	60-2	1087	1143	977	1069	7.93	cps
Phosphorus	31-2	475	500	492	489	2.60	cps
Potassium	39-2	75517	75811	75291	75540	0.35	cps
Rhodium	103-2	6294924	6283484	6279692	6286033	0.13	cps
Rhodium	103-1	13061625	13197268	13229778	13162890	0.68	cps
Scandium	45-1	8790695	8809158	8864983	8821612	0.44	cps
Scandium	45-2	398341	396219	394382	396314	0.50	cps
Selenium	77-2	10	13	23	16	44.60	cps
Selenium	78-2	106	131	94	110	17.20	cps
Selenium	82-1	-190	-269	-53	-171	-64.03	cps
Silicon	28-1	3925813	3948630	3952677	3942373	0.37	cps
Silver	109-1	3734	3709	4243	3895	7.73	cps
Silver	107-1	4201	4084	4209	4165	1.68	cps
Sodium	23-2	142639	143379	144219	143412	0.55	cps
Strontium	86-1	8970	9137	9670	9259	3.95	cps
Strontium	88-1	19639	19748	19706	19698	0.28	cps
Sulfur	34-1	783403	771014	770266	774894	0.95	cps
Terbium	159-1	17649593	17808605	17780890	17746363	0.48	cps
Terbium	159-2	8268755	8361564	8277438	8302586	0.62	cps
Thallium	203-1	83	108	192	128	44.39	cps
Thallium	205-1	425	300	267	331	25.25	cps
Tin	118-1	2992	3100	3142	3078	2.52	cps
Titanium	47-1	558	650	492	567	14.03	cps
Uranium	238-1	142	183	142	156	15.47	cps
Vanadium	51-2	407	413	377	399	4.90	cps
Yttrium	89-2	1956923	1964264	1959471	1960219	0.19	cps
Yttrium	89-1	14432526	14234793	14431345	14366221	0.79	cps
Zinc	66-2	6982	7095	6825	6967	1.95	cps
Zirconium	90-1	1517	1533	1992	1681	16.04	cps

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2700-06	Instrumnet Name :	P7
Client Sample ID :	S8-EB-2017-1	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 15:57:09	DataFile Name :	052SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Zirconium	91-1	358	392	392	381	5.06	cps

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2700-06DLX20	Instrumnet Name :	P7
Client Sample ID :	S8-EB-2017-1DL	Dilution Factor :	20
Date & Time Acquired ::	2017-04-18 16:00:38	DataFile Name :	053SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	117	125	100	114	11.18	cps
Antimony	121-1	1433	1342	1525	1433	6.40	cps
Arsenic	75-2	35	43	35	38	11.35	cps
Barium	135-1	158	242	183	194	21.99	cps
Barium	137-1	217	200	233	217	7.69	cps
Beryllium	9-1	117	94	33	81	52.96	cps
Bismuth	209-1	11717889	11829000	11769268	11772052	0.47	cps
Bismuth	209-2	6534610	6498533	6565519	6532887	0.51	cps
Boron	10-1	975	1150	875	1000	13.92	cps
Boron	11-1	4351	4459	4751	4520	4.58	cps
Cadmium	106-1	5018	4643	5160	4940	5.41	cps
Cadmium	108-1	13	13	25	17	43.30	cps
Cadmium	111-1	1017	925	1038	993	6.03	cps
Calcium	43-1	908	883	1108	967	12.76	cps
Calcium	44-1	32579	32629	31535	32247	1.92	cps
Chromium	52-2	950	843	983	926	7.90	cps
Cobalt	59-2	83	53	67	68	22.18	cps
Copper	63-2	15415	15011	15191	15206	1.33	cps
Dysprosium	156-1	17	17	17	17	0.00	cps
Dysprosium	156-2	0	0	0	0	0.00	cps
Erbium	164-2	40	27	20	29	35.25	cps
Erbium	164-1	50	67	58	58	14.29	cps
Gadolinium	160-1	158	133	125	139	12.49	cps
Gadolinium	160-2	67	40	40	49	31.50	cps
Holmium	165-2	8678682	8710509	8695081	8694757	0.18	cps
Holmium	165-1	17880801	17798100	17886720	17855207	0.28	cps
Indium	115-1	14742532	14921569	14863488	14842530	0.62	cps
Indium	115-2	2639468	2659361	2661141	2653323	0.45	cps
Iron	56-2	10187	10493	9931	10204	2.76	cps
Iron	57-2	256	267	272	265	3.21	cps
Lead	206-1	1328	1461	1211	1333	9.38	cps
Lead	207-1	1195	945	1250	1130	14.41	cps
Lead	208-1	5317	4851	4912	5026	5.05	cps
Lithium	6-1	1570981	1565406	1546915	1561101	0.81	cps
Magnesium	24-2	333	392	250	325	21.91	cps
Manganese	55-2	513	473	433	473	8.45	cps

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2700-06DLX20	Instrumnet Name :	P7
Client Sample ID :	S8-EB-2017-1DL	Dilution Factor :	20
Date & Time Acquired ::	2017-04-18 16:00:38	DataFile Name :	053SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Molybdenum	94-1	442	583	633	553	17.99	cps
Molybdenum	95-1	283	308	425	339	22.31	cps
Molybdenum	96-1	350	533	733	539	35.58	cps
Molybdenum	97-1	217	250	408	292	35.11	cps
Molybdenum	98-1	500	558	825	628	27.60	cps
Neodymium	150-1	13	20	13	16	24.76	cps
Neodymium	150-2	0	0	0	0	0.00	cps
Nickel	60-2	340	307	330	326	5.25	cps
Phosphorus	31-2	533	525	433	497	11.16	cps
Potassium	39-2	57729	57279	57713	57574	0.44	cps
Rhodium	103-2	6541149	6604764	6556432	6567448	0.51	cps
Rhodium	103-1	13717925	13734644	13951786	13801452	0.95	cps
Scandium	45-1	9198912	9089026	9186991	9158310	0.66	cps
Scandium	45-2	423995	422342	424295	423544	0.25	cps
Selenium	77-2	0	3	0	1	173.21	cps
Selenium	78-2	115	131	109	119	9.76	cps
Selenium	82-1	-289	-204	-135	-210	-36.81	cps
Silicon	28-1	686151	694854	685511	688838	0.76	cps
Silver	107-1	1242	1358	1175	1258	7.37	cps
Silver	109-1	1175	1067	1008	1083	7.81	cps
Sodium	23-2	51355	50143	50553	50684	1.22	cps
Strontium	86-1	7802	7727	7094	7541	5.16	cps
Strontium	88-1	2100	2117	2109	2109	0.40	cps
Sulfur	34-1	803237	810235	803062	805511	0.51	cps
Terbium	159-1	18567113	18447407	18455962	18490161	0.36	cps
Terbium	159-2	8659408	8470312	8539186	8556302	1.12	cps
Thallium	203-1	100	108	75	94	18.37	cps
Thallium	205-1	183	175	183	181	2.66	cps
Tin	118-1	950	1042	1275	1089	15.39	cps
Titanium	47-1	425	275	225	308	33.76	cps
Uranium	238-1	58	100	100	86	27.93	cps
Vanadium	51-2	33	70	67	57	35.79	cps
Yttrium	89-2	2069575	2067950	2075148	2070891	0.18	cps
Yttrium	89-1	14971260	15090836	15081275	15047790	0.44	cps
Zinc	66-2	703	553	687	648	12.69	cps
Zirconium	90-1	842	850	1067	920	13.87	cps

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2700-06DLX20	Instrumnet Name :	P7
Client Sample ID :	S8-EB-2017-1DL	Dilution Factor :	20
Date & Time Acquired ::	2017-04-18 16:00:38	DataFile Name :	053SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Zirconium	91-1	183	225	242	217	13.87	cps

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2700-10	Instrumnet Name :	P7
Client Sample ID :	S8-0656	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 16:04:08	DataFile Name :	054SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	5685	4843	4968	5165	8.80	cps
Antimony	121-1	6744	6660	6285	6563	3.72	cps
Arsenic	75-2	161006	161401	161360	161256	0.13	cps
Barium	135-1	70128	70512	71393	70677	0.92	cps
Barium	137-1	123824	123252	124470	123849	0.49	cps
Beryllium	9-1	172	122	167	154	17.83	cps
Bismuth	209-1	11262717	11269299	11370887	11300968	0.54	cps
Bismuth	209-2	6287128	6381207	6344311	6337549	0.75	cps
Boron	10-1	18061	17386	17736	17728	1.91	cps
Boron	11-1	81386	83011	86213	83537	2.94	cps
Cadmium	106-1	4851	4343	5143	4779	8.47	cps
Cadmium	108-1	13	38	29	26	48.24	cps
Cadmium	111-1	1092	934	1115	1047	9.44	cps
Calcium	43-1	734442	726387	731730	730853	0.56	cps
Calcium	44-1	12048714	12160331	12305272	12171439	1.06	cps
Chromium	52-2	3924	4191	4177	4097	3.67	cps
Cobalt	59-2	29330	28244	28621	28732	1.92	cps
Copper	63-2	198834	200091	200892	199939	0.52	cps
Dysprosium	156-2	290	293	313	299	4.22	cps
Dysprosium	156-1	500	567	650	572	13.13	cps
Erbium	164-1	742	658	575	658	12.66	cps
Erbium	164-2	360	337	400	366	8.76	cps
Gadolinium	160-2	323	340	330	331	2.53	cps
Gadolinium	160-1	550	708	567	608	14.30	cps
Holmium	165-2	8495388	8590012	8463564	8516321	0.77	cps
Holmium	165-1	17011085	17208930	17450567	17223527	1.28	cps
Indium	115-1	13825927	14034897	14078286	13979703	0.97	cps
Indium	115-2	2522193	2536849	2539906	2532983	0.37	cps
Iron	56-2	330230285	333374052	332840596	332148311	0.51	cps
Iron	57-2	8279076	8181028	8174586	8211564	0.71	cps
Lead	206-1	43583	42557	43962	43367	1.68	cps
Lead	207-1	36183	37074	36495	36584	1.24	cps
Lead	208-1	169182	168750	171064	169665	0.73	cps
Lithium	6-1	1527432	1526084	1536096	1529871	0.36	cps
Magnesium	24-2	1393154	1399359	1396703	1396406	0.22	cps
Manganese	55-2	4729478	4744993	4762936	4745802	0.35	cps

Reviewed By:jaswal
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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2700-10	Instrumnet Name :	P7
Client Sample ID :	S8-0656	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 16:04:08	DataFile Name :	054SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Molybdenum	94-1	3367	3734	3951	3684	8.01	cps
Molybdenum	95-1	4451	4484	4418	4451	0.75	cps
Molybdenum	96-1	6477	6377	7060	6638	5.56	cps
Molybdenum	97-1	2575	2609	2650	2611	1.44	cps
Molybdenum	98-1	6602	6168	6368	6380	3.40	cps
Neodymium	150-1	647	780	753	727	9.71	cps
Neodymium	150-2	243	257	260	253	3.48	cps
Nickel	60-2	7978	6045	6452	6825	14.94	cps
Phosphorus	31-2	4434	4759	4959	4718	5.62	cps
Potassium	39-2	1308908	1322143	1311409	1314153	0.54	cps
Rhodium	103-2	6283139	6210475	6206751	6233455	0.69	cps
Rhodium	103-1	12809963	13088906	13147311	13015393	1.39	cps
Scandium	45-1	8747828	8938252	9027553	8904544	1.60	cps
Scandium	45-2	400108	401898	400437	400814	0.24	cps
Selenium	77-2	7	13	7	9	43.25	cps
Selenium	78-2	133	144	152	143	6.51	cps
Selenium	82-1	135	-22	-107	2	6117.96	cps
Silicon	28-1	60404956	60052501	60609512	60355656	0.47	cps
Silver	109-1	3326	3626	3701	3551	5.59	cps
Silver	107-1	3542	3359	3592	3498	3.51	cps
Sodium	23-2	7520661	7634358	7564665	7573228	0.76	cps
Strontium	86-1	688508	691699	690669	690292	0.24	cps
Strontium	88-1	6000824	6091079	6158546	6083483	1.30	cps
Sulfur	34-1	955581	948097	943564	949080	0.64	cps
Terbium	159-1	17699660	17668574	17838168	17735467	0.51	cps
Terbium	159-2	8297085	8287263	8310736	8298361	0.14	cps
Thallium	203-1	158	192	175	175	9.53	cps
Thallium	205-1	392	308	408	369	14.50	cps
Tin	118-1	4859	5326	5801	5329	8.84	cps
Titanium	47-1	6335	6402	6452	6396	0.92	cps
Uranium	238-1	1675	1742	2000	1806	9.51	cps
Vanadium	51-2	1747	1753	1660	1720	3.03	cps
Yttrium	89-2	1974288	1982905	1988960	1982051	0.37	cps
Yttrium	89-1	14287951	14415997	14452324	14385424	0.60	cps
Zinc	66-2	23309	23422	23723	23485	0.91	cps
Zirconium	90-1	3184	3492	3809	3495	8.94	cps

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2700-10	Instrumnet Name :	P7
Client Sample ID :	S8-0656	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 16:04:08	DataFile Name :	054SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Zirconium	91-1	1392	1600	1433	1475	7.47	cps

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2700-10DLX20	Instrumnet Name :	P7
Client Sample ID :	S8-0656DL	Dilution Factor :	20
Date & Time Acquired ::	2017-04-18 16:07:37	DataFile Name :	055SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	550	550	458	519	10.19	cps
Antimony	121-1	717	775	1100	864	23.91	cps
Arsenic	75-2	8675	8606	8523	8601	0.88	cps
Barium	135-1	3809	3809	3709	3776	1.53	cps
Barium	137-1	6794	6368	6468	6544	3.40	cps
Beryllium	9-1	89	28	61	59	51.63	cps
Bismuth	209-1	11997087	12068397	11992794	12019426	0.35	cps
Bismuth	209-2	6619876	6959256	6684059	6754397	2.67	cps
Boron	10-1	1942	1809	1692	1814	6.90	cps
Boron	11-1	8253	8286	8144	8228	0.90	cps
Cadmium	111-1	1027	1136	1001	1055	6.80	cps
Cadmium	106-1	5059	5560	4976	5198	6.07	cps
Cadmium	108-1	17	8	4	10	65.47	cps
Calcium	43-1	37925	39913	37758	38532	3.11	cps
Calcium	44-1	647294	646229	651337	648286	0.42	cps
Chromium	52-2	1017	1060	933	1003	6.42	cps
Cobalt	59-2	1543	1460	1707	1570	7.99	cps
Copper	63-2	21352	21396	21389	21379	0.11	cps
Dysprosium	156-1	50	67	75	64	19.92	cps
Dysprosium	156-2	3	10	7	7	50.03	cps
Erbium	164-2	30	47	43	40	22.05	cps
Erbium	164-1	58	108	92	86	29.56	cps
Gadolinium	160-1	142	75	117	111	30.31	cps
Gadolinium	160-2	80	63	50	64	23.32	cps
Holmium	165-2	8698498	8803039	8848177	8783238	0.87	cps
Holmium	165-1	17923639	17809370	17975554	17902854	0.47	cps
Indium	115-1	14737617	14929018	14770477	14812371	0.69	cps
Indium	115-2	2659345	2669249	2679304	2669299	0.37	cps
Iron	56-2	17220490	17107584	17387076	17238383	0.82	cps
Iron	57-2	413307	417108	419437	416617	0.74	cps
Lead	206-1	3601	3323	3517	3480	4.10	cps
Lead	207-1	2723	2684	2745	2717	1.14	cps
Lead	208-1	13058	13392	13481	13310	1.67	cps
Lithium	6-1	1546934	1558144	1557248	1554109	0.40	cps
Magnesium	24-2	74753	74168	72702	73874	1.43	cps
Manganese	55-2	247618	247539	248707	247955	0.26	cps

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2700-10DLX20	Instrumnet Name :	P7
Client Sample ID :	S8-0656DL	Dilution Factor :	20
Date & Time Acquired ::	2017-04-18 16:07:37	DataFile Name :	055SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Molybdenum	94-1	542	683	675	633	12.55	cps
Molybdenum	95-1	525	542	617	561	8.70	cps
Molybdenum	96-1	650	742	833	742	12.36	cps
Molybdenum	97-1	350	400	433	394	10.63	cps
Molybdenum	98-1	658	775	950	795	18.48	cps
Neodymium	150-2	3	27	10	13	90.16	cps
Neodymium	150-1	53	40	47	47	14.29	cps
Nickel	60-2	557	677	553	596	11.80	cps
Phosphorus	31-2	908	617	733	753	19.50	cps
Potassium	39-2	121393	123342	126392	123709	2.04	cps
Rhodium	103-2	6596325	6534971	6560909	6564068	0.47	cps
Rhodium	103-1	13639969	13691770	13661906	13664548	0.19	cps
Scandium	45-1	9229791	9216315	9245172	9230426	0.16	cps
Scandium	45-2	426962	427502	431368	428611	0.56	cps
Selenium	82-1	-31	-39	134	21	463.50	cps
Selenium	77-2	3	3	0	2	86.60	cps
Selenium	78-2	115	131	117	121	7.55	cps
Silicon	28-1	3636463	3645699	3611586	3631249	0.49	cps
Silver	109-1	800	967	975	914	10.80	cps
Silver	107-1	1058	1058	1192	1103	6.98	cps
Sodium	23-2	431838	429943	431192	430991	0.22	cps
Strontium	86-1	43584	42447	42221	42751	1.71	cps
Strontium	88-1	307397	309206	307572	308058	0.32	cps
Sulfur	34-1	796777	794707	798698	796727	0.25	cps
Terbium	159-1	18489601	18408426	18436276	18444768	0.22	cps
Terbium	159-2	8569311	8690087	8771035	8676811	1.17	cps
Thallium	203-1	92	92	67	83	17.32	cps
Thallium	205-1	175	125	158	153	16.66	cps
Tin	118-1	1083	825	1142	1017	16.58	cps
Titanium	47-1	558	867	650	692	22.89	cps
Uranium	238-1	117	283	225	208	40.60	cps
Vanadium	51-2	153	123	157	144	12.71	cps
Yttrium	89-1	14949462	15339621	15114342	15134475	1.29	cps
Yttrium	89-2	2109138	2081086	2100599	2096941	0.69	cps
Zinc	66-2	1610	1553	1493	1552	3.76	cps
Zirconium	90-1	850	1050	1008	970	10.88	cps

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2700-10DLX20	Instrumnet Name :	P7
Client Sample ID :	S8-0656DL	Dilution Factor :	20
Date & Time Acquired ::	2017-04-18 16:07:37	DataFile Name :	055SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Zirconium	91-1	225	250	300	258	14.78	cps

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2700-10DUP	Instrumnet Name :	P7
Client Sample ID :	S8-0656DUP	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 16:11:05	DataFile Name :	056SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	5268	5443	5109	5273	3.16	cps
Antimony	121-1	8370	8545	8486	8467	1.05	cps
Arsenic	75-2	159188	160506	161807	160500	0.82	cps
Barium	135-1	70421	70965	70730	70705	0.39	cps
Barium	137-1	122839	125100	125228	124389	1.08	cps
Beryllium	9-1	111	133	117	120	9.61	cps
Bismuth	209-1	11355619	11325218	11262262	11314366	0.42	cps
Bismuth	209-2	6181589	6202763	6276287	6220213	0.80	cps
Boron	10-1	16610	18387	17828	17608	5.16	cps
Boron	11-1	81402	85332	84118	83618	2.41	cps
Cadmium	111-1	978	1074	1055	1036	4.94	cps
Cadmium	106-1	4409	4876	4701	4662	5.06	cps
Cadmium	108-1	21	29	38	29	28.58	cps
Calcium	43-1	729147	730417	733527	731030	0.31	cps
Calcium	44-1	12154939	12178933	12278703	12204192	0.54	cps
Chromium	52-2	4317	4231	4294	4281	1.05	cps
Cobalt	59-2	28117	27486	27763	27789	1.14	cps
Copper	63-2	203676	205245	206495	205139	0.69	cps
Dysprosium	156-2	300	313	223	279	17.42	cps
Dysprosium	156-1	567	608	583	586	3.58	cps
Erbium	164-1	675	642	525	614	12.83	cps
Erbium	164-2	273	320	340	311	11.00	cps
Gadolinium	160-2	333	313	320	322	3.16	cps
Gadolinium	160-1	633	783	567	661	16.79	cps
Holmium	165-1	17260651	17298537	17467788	17342326	0.64	cps
Holmium	165-2	8233940	8211832	8248410	8231394	0.22	cps
Indium	115-2	2479915	2487527	2516097	2494513	0.76	cps
Indium	115-1	13827831	13924070	14054299	13935400	0.82	cps
Iron	56-2	323052018	329313563	328001330	326788970	1.01	cps
Iron	57-2	8044204	8116221	8154165	8104863	0.69	cps
Lead	206-1	44163	43683	42725	43524	1.68	cps
Lead	207-1	36306	36428	37504	36746	1.79	cps
Lead	208-1	171713	170003	170209	170642	0.55	cps
Lithium	6-1	1498960	1529012	1519403	1515791	1.01	cps
Magnesium	24-2	1369594	1366003	1375250	1370282	0.34	cps
Manganese	55-2	4656695	4652448	4655268	4654804	0.05	cps

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2700-10DUP	Instrumnet Name :	P7
Client Sample ID :	S8-0656DUP	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 16:11:05	DataFile Name :	056SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Molybdenum	95-1	4301	3917	4034	4084	4.81	cps
Molybdenum	96-1	6077	6235	6543	6285	3.78	cps
Molybdenum	97-1	2775	2817	2625	2739	3.68	cps
Molybdenum	98-1	6994	6277	6835	6702	5.62	cps
Molybdenum	94-1	3159	3584	4067	3603	12.62	cps
Neodymium	150-1	720	620	773	704	11.05	cps
Neodymium	150-2	270	267	267	268	0.72	cps
Nickel	60-2	6325	6525	6241	6364	2.29	cps
Phosphorus	31-2	4643	4643	4584	4623	0.73	cps
Potassium	39-2	1281882	1290517	1302588	1291662	0.81	cps
Rhodium	103-1	12551218	12833619	12854650	12746495	1.33	cps
Rhodium	103-2	6106373	6101733	6092502	6100203	0.12	cps
Scandium	45-2	390255	387718	389992	389322	0.36	cps
Scandium	45-1	8772273	8719097	8847121	8779497	0.73	cps
Selenium	82-1	150	15	-114	17	768.99	cps
Selenium	77-2	13	10	10	11	17.30	cps
Selenium	78-2	115	139	139	131	10.62	cps
Silicon	28-1	59123620	60772778	59349374	59748591	1.50	cps
Silver	109-1	3917	4259	4726	4301	9.44	cps
Silver	107-1	4317	4559	4884	4587	6.20	cps
Sodium	23-2	7478225	7407590	7523611	7469809	0.78	cps
Strontium	86-1	689443	686325	687176	687648	0.23	cps
Strontium	88-1	6071742	6004251	6120077	6065357	0.96	cps
Sulfur	34-1	919314	917949	905287	914183	0.85	cps
Terbium	159-1	17469429	17901694	17840755	17737293	1.32	cps
Terbium	159-2	8014521	8190066	8138043	8114210	1.11	cps
Thallium	203-1	192	175	175	181	5.33	cps
Thallium	205-1	367	400	417	394	6.45	cps
Tin	118-1	6252	6568	6902	6574	4.95	cps
Titanium	47-1	7210	7094	7360	7222	1.85	cps
Uranium	238-1	2009	1884	1909	1934	3.42	cps
Vanadium	51-2	1873	1944	1867	1895	2.24	cps
Yttrium	89-2	1922761	1929754	1949896	1934137	0.73	cps
Yttrium	89-1	14126964	14293522	14214497	14211661	0.59	cps
Zinc	66-2	24017	24434	24284	24245	0.87	cps
Zirconium	90-1	2692	3226	3117	3012	9.36	cps

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2700-10DUP	Instrumnet Name :	P7
Client Sample ID :	S8-0656DUP	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 16:11:05	DataFile Name :	056SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Zirconium	91-1	1583	1283	1358	1408	11.09	cps

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2700-10DUPDLX20	Instrumnet Name :	P7
Client Sample ID :	S8-0656DUPDL	Dilution Factor :	20
Date & Time Acquired ::	2017-04-18 16:14:35	DataFile Name :	057SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	483	483	450	472	4.08	cps
Antimony	121-1	883	842	975	900	7.58	cps
Arsenic	75-2	8782	8666	8680	8709	0.73	cps
Barium	135-1	3667	3784	3592	3681	2.62	cps
Barium	137-1	6318	6960	6660	6646	4.83	cps
Beryllium	9-1	78	78	83	80	4.03	cps
Bismuth	209-2	6553293	6603377	6613942	6590204	0.49	cps
Bismuth	209-1	12017572	11861554	12041502	11973543	0.82	cps
Boron	10-1	1967	1942	1784	1897	5.24	cps
Boron	11-1	9695	8828	9078	9200	4.85	cps
Cadmium	106-1	5226	5185	5051	5154	1.77	cps
Cadmium	108-1	13	13	13	13	0.00	cps
Cadmium	111-1	1050	1042	1036	1043	0.68	cps
Calcium	43-1	39429	38785	38727	38980	1.00	cps
Calcium	44-1	664836	646688	643407	651643	1.77	cps
Chromium	52-2	957	940	1033	977	5.10	cps
Cobalt	59-2	1447	1520	1703	1557	8.49	cps
Copper	63-2	21887	22327	22110	22108	1.00	cps
Dysprosium	156-2	10	20	17	16	32.73	cps
Dysprosium	156-1	33	42	58	44	28.65	cps
Erbium	164-1	75	75	75	75	0.00	cps
Erbium	164-2	20	30	43	31	37.62	cps
Gadolinium	160-2	73	43	53	57	26.96	cps
Gadolinium	160-1	117	83	117	106	18.23	cps
Holmium	165-2	8630062	8714496	8765530	8703362	0.79	cps
Holmium	165-1	17917232	17969385	17891695	17926104	0.22	cps
Indium	115-1	15039003	14643274	14645198	14775825	1.54	cps
Indium	115-2	2632421	2661825	2650137	2648128	0.56	cps
Iron	56-2	17403322	17601611	17475532	17493488	0.57	cps
Iron	57-2	413961	421680	418837	418159	0.93	cps
Lead	206-1	3489	3217	3206	3304	4.86	cps
Lead	207-1	3073	2628	2800	2834	7.91	cps
Lead	208-1	13281	13086	12875	13081	1.55	cps
Lithium	6-1	1556907	1537714	1543239	1545953	0.64	cps
Magnesium	24-2	72509	74963	74351	73941	1.73	cps
Manganese	55-2	245591	248877	249615	248028	0.86	cps

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2700-10DUPDLX20	Instrumnet Name :	P7
Client Sample ID :	S8-0656DUPDL	Dilution Factor :	20
Date & Time Acquired ::	2017-04-18 16:14:35	DataFile Name :	057SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Molybdenum	94-1	608	650	683	647	5.81	cps
Molybdenum	95-1	433	458	492	461	6.35	cps
Molybdenum	96-1	592	525	800	639	22.45	cps
Molybdenum	97-1	217	292	442	317	36.18	cps
Molybdenum	98-1	675	642	892	736	18.44	cps
Neodymium	150-1	33	47	73	51	39.86	cps
Neodymium	150-2	7	17	10	11	45.82	cps
Nickel	60-2	667	567	667	633	9.12	cps
Phosphorus	31-2	683	592	833	703	17.36	cps
Potassium	39-2	124217	124015	123452	123894	0.32	cps
Rhodium	103-2	6547082	6565152	6608850	6573695	0.48	cps
Rhodium	103-1	13720779	13812746	13877099	13803542	0.57	cps
Scandium	45-1	9402094	9261237	9172746	9278693	1.25	cps
Scandium	45-2	425950	425026	427498	426158	0.29	cps
Selenium	77-2	3	7	0	3	100.05	cps
Selenium	78-2	115	141	128	128	10.14	cps
Selenium	82-1	-374	80	-112	-135	-168.45	cps
Silicon	28-1	3727934	3623831	3689352	3680372	1.43	cps
Silver	109-1	1050	1125	1067	1081	3.65	cps
Silver	107-1	1308	1283	1425	1339	5.65	cps
Sodium	23-2	432581	436709	434000	434430	0.48	cps
Strontium	86-1	43776	42949	42874	43200	1.16	cps
Strontium	88-1	315512	312473	311319	313101	0.69	cps
Sulfur	34-1	796283	784730	787341	789451	0.77	cps
Terbium	159-1	19222533	18354519	18557998	18711683	2.43	cps
Terbium	159-2	8561031	8566447	8614606	8580694	0.34	cps
Thallium	203-1	42	67	83	64	32.83	cps
Thallium	205-1	217	175	242	211	15.95	cps
Tin	118-1	1125	1100	1275	1167	8.11	cps
Titanium	47-1	500	500	633	544	14.14	cps
Uranium	238-1	200	150	183	178	14.32	cps
Vanadium	51-2	167	177	123	156	18.22	cps
Yttrium	89-2	2058531	2091375	2082956	2077621	0.82	cps
Yttrium	89-1	15505925	15133271	15262244	15300480	1.24	cps
Zinc	66-2	1587	1537	1597	1573	2.04	cps
Zirconium	90-1	783	917	1025	908	13.33	cps

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2700-10DUPDLX20	Instrumnet Name :	P7
Client Sample ID :	S8-0656DUPDL	Dilution Factor :	20
Date & Time Acquired ::	2017-04-18 16:14:35	DataFile Name :	057SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Zirconium	91-1	258	225	217	233	9.45	cps

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	CCV67	Instrumnet Name :	P7
Client Sample ID :	CCV67	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 16:18:04	DataFile Name :	058CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1480148	1470934	1484673	1478585	0.47	cps
Antimony	121-1	8219325	8191329	8170151	8193602	0.30	cps
Arsenic	75-2	309509	309616	314123	311083	0.85	cps
Barium	135-1	9772042	10021933	9828620	9874198	1.33	cps
Barium	137-1	16920903	17106755	16968398	16998685	0.57	cps
Beryllium	9-1	1410311	1413942	1413459	1412571	0.14	cps
Bismuth	209-1	11330508	11326940	11399702	11352383	0.36	cps
Bismuth	209-2	6298652	6328122	6406634	6344469	0.88	cps
Boron	10-1	197626	201196	202076	200299	1.18	cps
Boron	11-1	926290	956481	952115	944962	1.73	cps
Cadmium	106-1	241299	236603	239866	239256	1.01	cps
Cadmium	108-1	154359	156835	157758	156317	1.12	cps
Cadmium	111-1	2024218	2033548	2022126	2026631	0.30	cps
Calcium	43-1	2388057	2431782	2410652	2410164	0.91	cps
Calcium	44-1	39800083	39693783	39518110	39670659	0.36	cps
Chromium	52-2	2743897	2747690	2780765	2757451	0.74	cps
Cobalt	59-2	4444462	4462857	4508022	4471781	0.73	cps
Copper	63-2	6631405	6645084	6748898	6675129	0.96	cps
Dysprosium	156-2	23	40	23	29	33.32	cps
Dysprosium	156-1	217	183	75	158	46.78	cps
Erbium	164-1	108	75	67	83	26.46	cps
Erbium	164-2	33	37	33	34	5.60	cps
Gadolinium	160-2	70	50	57	59	17.29	cps
Gadolinium	160-1	150	108	75	111	33.82	cps
Holmium	165-2	8638224	8607743	8568698	8604888	0.41	cps
Holmium	165-1	17445387	17652183	17468526	17522032	0.65	cps
Indium	115-1	14339123	14410266	14437167	14395519	0.35	cps
Indium	115-2	2588181	2598249	2623708	2603380	0.70	cps
Iron	56-2	113590080	114337891	114156394	114028122	0.34	cps
Iron	57-2	2731200	2737994	2774853	2748016	0.85	cps
Lead	206-1	6298461	6320817	6368247	6329175	0.56	cps
Lead	207-1	5675765	5740915	5744638	5720440	0.68	cps
Lead	208-1	25790630	25984930	26122782	25966114	0.64	cps
Lithium	6-1	1496272	1509655	1519605	1508511	0.78	cps
Magnesium	24-2	19840603	19639301	19704739	19728214	0.52	cps
Manganese	55-2	2954622	2955794	2959867	2956761	0.09	cps

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	CCV67	Instrumnet Name :	P7
Client Sample ID :	CCV67	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 16:18:04	DataFile Name :	058CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Molybdenum	94-1	7497210	7540173	7508322	7515235	0.30	cps
Molybdenum	95-1	4003810	3988789	3986560	3993053	0.23	cps
Molybdenum	96-1	5153254	5139909	5143242	5145468	0.13	cps
Molybdenum	97-1	2473521	2454403	2445321	2457748	0.59	cps
Molybdenum	98-1	6595533	6497324	6576984	6556614	0.80	cps
Neodymium	150-1	447	547	653	549	18.83	cps
Neodymium	150-2	40	40	53	44	17.32	cps
Nickel	60-2	1186379	1191927	1201204	1193170	0.63	cps
Phosphorus	31-2	89149	91974	90633	90585	1.56	cps
Potassium	39-2	9826886	9897588	9833283	9852586	0.40	cps
Rhodium	103-2	6183906	6199584	6275651	6219714	0.79	cps
Rhodium	103-1	13008407	12875451	12923388	12935749	0.52	cps
Scandium	45-1	9090696	9193491	9086478	9123555	0.66	cps
Scandium	45-2	422486	424295	425730	424170	0.38	cps
Selenium	77-2	6181	6215	6141	6179	0.59	cps
Selenium	78-2	20333	20070	20617	20340	1.35	cps
Selenium	82-1	133079	133617	134134	133610	0.39	cps
Silicon	28-1	4876201	4969884	4942220	4929435	0.98	cps
Silver	109-1	9957701	10140831	10028978	10042504	0.92	cps
Silver	107-1	10479622	10506880	10569799	10518767	0.44	cps
Sodium	23-2	39504209	39561689	39647110	39571003	0.18	cps
Strontium	86-1	2962295	3005716	3003719	2990576	0.82	cps
Strontium	88-1	26176348	26271296	26515834	26321159	0.67	cps
Sulfur	34-1	1629963	1643816	1642990	1638923	0.47	cps
Terbium	159-1	17939633	18022330	18139159	18033708	0.56	cps
Terbium	159-2	8473511	8454801	8383906	8437406	0.56	cps
Thallium	203-1	8084356	8159934	8168041	8137443	0.57	cps
Thallium	205-1	19176755	19083300	19415231	19225095	0.89	cps
Tin	118-1	6866362	6883292	6876130	6875261	0.12	cps
Titanium	47-1	1184548	1185852	1191536	1187312	0.31	cps
Uranium	238-1	26002738	26090819	26534118	26209225	1.09	cps
Vanadium	51-2	2222755	2231363	2252778	2235632	0.69	cps
Yttrium	89-2	2050845	2057633	2072871	2060450	0.55	cps
Yttrium	89-1	14542667	14601602	14762491	14635587	0.78	cps
Zinc	66-2	907401	910745	924868	914338	1.01	cps
Zirconium	90-1	14287262	14348525	14427908	14354565	0.49	cps

Reviewed By:jaswal
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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	CCV67	Instrumnet Name :	P7
Client Sample ID :	CCV67	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 16:18:04	DataFile Name :	058CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Zirconium	91-1	3116510	3128690	3134082	3126427	0.29	cps

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On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	CCB67	Instrumnet Name :	P7
Client Sample ID :	CCB67	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 16:30:27	DataFile Name :	059CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	100	75	75	83	17.32	cps
Antimony	121-1	10863	14675	18304	14614	25.46	cps
Arsenic	75-2	67	74	109	83	27.31	cps
Barium	135-1	100	92	42	78	40.56	cps
Barium	137-1	108	75	75	86	22.35	cps
Beryllium	9-1	122	106	67	98	29.05	cps
Bismuth	209-1	11975901	11998391	11928177	11967490	0.30	cps
Bismuth	209-2	6619076	6607754	6364244	6530358	2.20	cps
Boron	10-1	1242	1142	1508	1297	14.61	cps
Boron	11-1	6310	6352	6151	6271	1.68	cps
Cadmium	108-1	25	17	25	22	21.64	cps
Cadmium	111-1	1009	970	982	987	1.99	cps
Cadmium	106-1	5076	4901	4859	4946	2.33	cps
Calcium	43-1	575	458	383	472	20.45	cps
Calcium	44-1	25448	25782	25131	25453	1.28	cps
Chromium	52-2	840	893	873	869	3.10	cps
Cobalt	59-2	140	77	67	94	42.10	cps
Copper	63-2	10874	11254	11051	11060	1.72	cps
Dysprosium	156-1	0	8	17	8	100.02	cps
Dysprosium	156-2	10	3	0	4	114.60	cps
Erbium	164-2	27	43	10	27	62.49	cps
Erbium	164-1	67	67	58	64	7.53	cps
Gadolinium	160-1	125	92	100	106	16.44	cps
Gadolinium	160-2	60	37	40	46	27.70	cps
Holmium	165-2	8686250	8668127	8360641	8571673	2.13	cps
Holmium	165-1	17920493	17994468	17702394	17872451	0.85	cps
Indium	115-1	14796361	14839845	14752502	14796236	0.30	cps
Indium	115-2	2676367	2665831	2582211	2641470	1.95	cps
Iron	56-2	7597	7980	7997	7858	2.88	cps
Iron	57-2	150	189	178	172	11.63	cps
Lead	206-1	1711	1578	1750	1680	5.38	cps
Lead	207-1	1572	1506	1461	1513	3.70	cps
Lead	208-1	7007	7112	6701	6940	3.08	cps
Lithium	6-1	1556677	1564422	1548072	1556391	0.53	cps
Magnesium	24-2	292	225	208	242	18.25	cps
Manganese	55-2	97	130	110	112	14.95	cps

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	CCB67	Instrumnet Name :	P7
Client Sample ID :	CCB67	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 16:30:27	DataFile Name :	059CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Molybdenum	94-1	1042	1225	1567	1278	20.85	cps
Molybdenum	95-1	967	1292	2075	1445	39.45	cps
Molybdenum	96-1	1133	1634	2250	1672	33.45	cps
Molybdenum	97-1	692	775	1275	914	34.52	cps
Molybdenum	98-1	1617	2309	3201	2375	33.42	cps
Neodymium	150-2	0	3	3	2	86.60	cps
Neodymium	150-1	7	13	7	9	43.25	cps
Nickel	60-2	370	290	293	318	14.24	cps
Phosphorus	31-2	442	500	558	500	11.67	cps
Potassium	39-2	56776	57311	56643	56910	0.62	cps
Rhodium	103-2	6629605	6526712	6281583	6479300	2.76	cps
Rhodium	103-1	13712686	13829767	13628354	13723602	0.74	cps
Scandium	45-1	9262390	9301406	9219206	9261000	0.44	cps
Scandium	45-2	427993	429950	417083	425009	1.63	cps
Selenium	77-2	7	3	3	4	43.40	cps
Selenium	78-2	120	106	144	123	15.90	cps
Selenium	82-1	240	30	-125	48	377.58	cps
Silicon	28-1	506616	502302	507063	505327	0.52	cps
Silver	107-1	525	542	592	553	6.28	cps
Silver	109-1	525	525	450	500	8.66	cps
Sodium	23-2	36178	36261	36596	36345	0.61	cps
Strontium	86-1	7277	7736	6969	7327	5.27	cps
Strontium	88-1	650	900	750	767	16.41	cps
Sulfur	34-1	805101	807572	816114	809595	0.71	cps
Terbium	159-2	8539934	8517903	8197393	8418410	2.28	cps
Terbium	159-1	18265540	18360723	18298272	18308178	0.26	cps
Thallium	203-1	217	242	233	231	5.52	cps
Thallium	205-1	567	567	608	581	4.14	cps
Tin	118-1	983	1283	1400	1222	17.59	cps
Titanium	47-1	200	192	167	186	9.32	cps
Uranium	238-1	108	133	100	114	15.23	cps
Vanadium	51-2	30	37	43	37	18.18	cps
Yttrium	89-2	2097156	2082050	2020271	2066492	1.97	cps
Yttrium	89-1	15139331	15146698	15101268	15129099	0.16	cps
Zinc	66-2	263	197	267	242	16.30	cps
Zirconium	90-1	1100	1100	1175	1125	3.85	cps

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	CCB67	Instrumnet Name :	P7
Client Sample ID :	CCB67	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 16:30:27	DataFile Name :	059CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Zirconium	91-1	242	267	317	275	13.89	cps

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2700-01DLX20	Instrumnet Name :	P7
Client Sample ID :	S8-0651DL	Dilution Factor :	20
Date & Time Acquired ::	2017-04-18 16:33:57	DataFile Name :	060SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	158	117	192	156	24.16	cps
Antimony	121-1	4234	4984	6102	5107	18.40	cps
Arsenic	75-2	1585	1558	1535	1559	1.61	cps
Barium	135-1	7094	7102	7244	7147	1.18	cps
Barium	137-1	12473	12982	12973	12809	2.27	cps
Beryllium	9-1	50	106	67	74	38.49	cps
Bismuth	209-2	6508825	6568626	6552198	6543216	0.47	cps
Bismuth	209-1	11774582	11694808	11759191	11742861	0.36	cps
Boron	10-1	1392	1475	1433	1433	2.91	cps
Boron	11-1	7169	6893	6935	6999	2.12	cps
Cadmium	106-1	4776	5001	5235	5004	4.58	cps
Cadmium	108-1	33	8	8	17	86.62	cps
Cadmium	111-1	973	1016	1054	1014	4.03	cps
Calcium	43-1	119750	118716	120968	119812	0.94	cps
Calcium	44-1	1961429	1935011	1963987	1953476	0.82	cps
Chromium	52-2	1073	1087	990	1050	4.99	cps
Cobalt	59-2	1747	1710	1783	1747	2.10	cps
Copper	63-2	11611	12232	12115	11986	2.75	cps
Dysprosium	156-2	77	83	90	83	8.00	cps
Dysprosium	156-1	158	258	242	219	24.42	cps
Erbium	164-1	292	275	317	294	7.12	cps
Erbium	164-2	100	90	127	106	17.96	cps
Gadolinium	160-2	120	107	110	112	6.18	cps
Gadolinium	160-1	217	292	283	264	15.58	cps
Holmium	165-1	17659771	17620488	17604209	17628156	0.16	cps
Holmium	165-2	8588409	8664648	8658981	8637346	0.49	cps
Indium	115-1	14678168	14592105	14432487	14567587	0.86	cps
Indium	115-2	2644889	2684723	2675675	2668429	0.78	cps
Iron	56-2	1985892	2012367	2022078	2006779	0.93	cps
Iron	57-2	49138	49373	50259	49590	1.19	cps
Lead	206-1	1867	1750	1889	1835	4.07	cps
Lead	207-1	1633	1589	1495	1572	4.51	cps
Lead	208-1	7457	7006	6918	7127	4.06	cps
Lithium	6-1	1535906	1523792	1531521	1530406	0.40	cps
Magnesium	24-2	215847	220620	218816	218428	1.10	cps
Manganese	55-2	792421	795264	802188	796624	0.63	cps

Reviewed By:jaswal
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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2700-01DLX20	Instrumnet Name :	P7
Client Sample ID :	S8-0651DL	Dilution Factor :	20
Date & Time Acquired ::	2017-04-18 16:33:57	DataFile Name :	060SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Molybdenum	94-1	933	917	1150	1000	13.02	cps
Molybdenum	95-1	775	1025	1367	1056	28.14	cps
Molybdenum	96-1	967	1267	1333	1189	16.43	cps
Molybdenum	97-1	517	583	767	622	20.81	cps
Molybdenum	98-1	1325	1358	1942	1542	22.50	cps
Neodymium	150-1	220	207	253	227	10.60	cps
Neodymium	150-2	130	100	83	104	22.64	cps
Nickel	60-2	747	777	723	749	3.57	cps
Phosphorus	31-2	467	433	625	508	20.14	cps
Potassium	39-2	101730	102854	101697	102094	0.65	cps
Rhodium	103-2	6439181	6543193	6440070	6474148	0.92	cps
Rhodium	103-1	13526210	13430566	13515679	13490818	0.39	cps
Scandium	45-1	9203240	9056811	9285323	9181791	1.26	cps
Scandium	45-2	426080	432434	433461	430658	0.93	cps
Selenium	77-2	3	3	0	2	86.60	cps
Selenium	78-2	167	122	144	144	15.39	cps
Selenium	82-1	-265	236	175	48	564.23	cps
Silicon	28-1	5102493	5110384	5114521	5109132	0.12	cps
Silver	109-1	675	817	750	747	9.48	cps
Silver	107-1	658	792	850	767	12.82	cps
Sodium	23-2	1038660	1057962	1054260	1050294	0.98	cps
Strontium	86-1	103547	102934	101356	102613	1.10	cps
Strontium	88-1	836222	835267	833324	834937	0.18	cps
Sulfur	34-1	867496	864642	860996	864378	0.38	cps
Terbium	159-2	8480996	8538607	8523149	8514251	0.35	cps
Terbium	159-1	18091668	17948178	17938256	17992701	0.48	cps
Thallium	203-1	208	258	225	231	11.04	cps
Thallium	205-1	475	433	442	450	4.90	cps
Tin	118-1	1283	1175	1533	1331	13.81	cps
Titanium	47-1	342	342	217	300	24.06	cps
Uranium	238-1	658	658	658	658	0.00	cps
Vanadium	51-2	63	73	67	68	7.52	cps
Yttrium	89-2	2084603	2089052	2093905	2089187	0.22	cps
Yttrium	89-1	14809269	14892343	14915916	14872509	0.38	cps
Zinc	66-2	773	687	810	757	8.37	cps
Zirconium	90-1	1167	1217	1233	1206	2.88	cps

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2700-01DLX20	Instrumnet Name :	P7
Client Sample ID :	S8-0651DL	Dilution Factor :	20
Date & Time Acquired ::	2017-04-18 16:33:57	DataFile Name :	060SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Zirconium	91-1	283	250	225	253	11.58	cps

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2700-11	Instrumnet Name :	P7
Client Sample ID :	S8-0656MS	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 16:37:27	DataFile Name :	061SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1267498	1261826	1271825	1267049	0.40	cps
Antimony	121-1	7720237	7645579	7686500	7684105	0.49	cps
Arsenic	75-2	419006	421641	422045	420898	0.39	cps
Barium	135-1	9189472	9231348	9260005	9226941	0.38	cps
Barium	137-1	15914210	15864256	15994268	15924244	0.41	cps
Beryllium	9-1	1233768	1249588	1257054	1246804	0.95	cps
Bismuth	209-1	11100646	11008494	10937676	11015605	0.74	cps
Bismuth	209-2	5942527	5951675	5961367	5951856	0.16	cps
Boron	10-1	384089	388922	395330	389447	1.45	cps
Boron	11-1	1806217	1818821	1839905	1821648	0.93	cps
Cadmium	106-1	207033	211390	211668	210030	1.24	cps
Cadmium	108-1	138978	138461	140336	139258	0.70	cps
Cadmium	111-1	1769493	1789370	1783263	1780709	0.57	cps
Calcium	43-1	2948473	2974632	2959781	2960962	0.44	cps
Calcium	44-1	48651516	49090895	48377828	48706746	0.74	cps
Chromium	52-2	2417957	2399204	2405954	2407705	0.39	cps
Cobalt	59-2	3924037	3912932	3947479	3928150	0.45	cps
Copper	63-2	6378541	6279288	6362697	6340175	0.84	cps
Dysprosium	156-2	340	333	337	337	0.99	cps
Dysprosium	156-1	842	900	792	845	6.42	cps
Erbium	164-1	8453	8078	8803	8445	4.30	cps
Erbium	164-2	3737	4044	3991	3924	4.18	cps
Gadolinium	160-2	690	650	743	694	6.74	cps
Gadolinium	160-1	1350	1258	1192	1267	6.28	cps
Holmium	165-2	8024901	8072119	8053535	8050185	0.30	cps
Holmium	165-1	16613443	16706640	16993546	16771210	1.18	cps
Indium	115-1	13601484	13664059	13737906	13667816	0.50	cps
Indium	115-2	2443473	2462404	2470909	2458929	0.57	cps
Iron	56-2	401326465	396292209	397689209	398435961	0.65	cps
Iron	57-2	9961882	9884144	9802103	9882710	0.81	cps
Lead	206-1	6114153	6195030	6197162	6168782	0.77	cps
Lead	207-1	5126431	5182378	5133105	5147305	0.59	cps
Lead	208-1	24300256	24572265	24350435	24407652	0.59	cps
Lithium	6-1	1579783	1600160	1622722	1600888	1.34	cps
Magnesium	24-2	18349508	18132234	18135516	18205753	0.68	cps
Manganese	55-2	6894897	6884324	6971547	6916923	0.69	cps

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Inst Id :P7
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LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2700-11	Instrumnet Name :	P7
Client Sample ID :	S8-0656MS	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 16:37:27	DataFile Name :	061SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Molybdenum	94-1	8789487	8843638	8802296	8811807	0.32	cps
Molybdenum	95-1	7550085	7537831	7525849	7537921	0.16	cps
Molybdenum	96-1	8951487	8899603	9036563	8962551	0.77	cps
Molybdenum	97-1	4611468	4570751	4598279	4593499	0.45	cps
Molybdenum	98-1	12234334	12179139	12249274	12220916	0.30	cps
Neodymium	150-1	1353	1307	1320	1327	1.81	cps
Neodymium	150-2	307	297	363	322	11.16	cps
Nickel	60-2	1054087	1055162	1062084	1057111	0.41	cps
Phosphorus	31-2	4384	3801	4326	4170	7.71	cps
Potassium	39-2	9610351	9551529	9537998	9566626	0.40	cps
Rhodium	103-2	5658222	5674588	5725556	5686122	0.62	cps
Rhodium	103-1	12100039	12268348	12297691	12222026	0.87	cps
Scandium	45-1	8405285	8570604	8460458	8478782	0.99	cps
Scandium	45-2	374273	378516	375842	376210	0.57	cps
Selenium	77-2	5121	5231	5281	5211	1.57	cps
Selenium	78-2	17277	17448	17657	17461	1.09	cps
Selenium	82-1	118091	119585	118486	118721	0.65	cps
Silicon	28-1	61572164	61348383	61538749	61486432	0.20	cps
Silver	109-1	4102855	4134449	4158807	4132037	0.68	cps
Silver	107-1	4293798	4346855	4345619	4328757	0.70	cps
Sodium	23-2	40724754	40536011	40325376	40528714	0.49	cps
Strontium	86-1	2944781	2960530	2971903	2959071	0.46	cps
Strontium	88-1	25922661	25974257	26304095	26067004	0.79	cps
Sulfur	34-1	903766	896095	892467	897443	0.64	cps
Terbium	159-1	17247988	17310820	17248985	17269265	0.21	cps
Terbium	159-2	7946122	7894125	7971203	7937150	0.50	cps
Thallium	203-1	7351512	7363241	7499933	7404895	1.11	cps
Thallium	205-1	17397558	17539364	17466252	17467725	0.41	cps
Tin	118-1	12370063	12438171	12407476	12405237	0.27	cps
Titanium	47-1	2129581	2132905	2117083	2126523	0.39	cps
Uranium	238-1	23982722	23904859	23917982	23935188	0.17	cps
Vanadium	51-2	1925061	1901865	1906881	1911269	0.64	cps
Yttrium	89-2	1858395	1862266	1861284	1860648	0.11	cps
Yttrium	89-1	13811791	13758555	13878083	13816143	0.43	cps
Zinc	66-2	824249	827088	827981	826439	0.24	cps
Zirconium	90-1	12380366	12489598	12511638	12460534	0.56	cps

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2700-11	Instrumnet Name :	P7
Client Sample ID :	S8-0656MS	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 16:37:27	DataFile Name :	061SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Zirconium	91-1	2695727	2727032	2715198	2712652	0.58	cps

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2700-11DLX20	Instrumnet Name :	P7
Client Sample ID :	S8-0656MSDL	Dilution Factor :	20
Date & Time Acquired ::	2017-04-18 16:40:51	DataFile Name :	062SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	72652	72192	72484	72443	0.32	cps
Antimony	121-1	425045	420694	418110	421283	0.83	cps
Arsenic	75-2	23680	23621	23677	23659	0.14	cps
Barium	135-1	491920	494027	498285	494744	0.66	cps
Barium	137-1	860163	854481	865624	860089	0.65	cps
Beryllium	9-1	70134	70938	71089	70720	0.73	cps
Bismuth	209-1	12001688	11901417	12094295	11999133	0.80	cps
Bismuth	209-2	6599749	6609658	6583817	6597742	0.20	cps
Boron	10-1	27684	27877	27559	27707	0.58	cps
Boron	11-1	135244	135065	134293	134867	0.37	cps
Cadmium	106-1	16068	16185	15776	16010	1.32	cps
Cadmium	108-1	7619	7552	7239	7470	2.71	cps
Cadmium	111-1	101589	103991	101670	102417	1.33	cps
Calcium	43-1	162542	167386	164228	164719	1.49	cps
Calcium	44-1	2676424	2701498	2689288	2689070	0.47	cps
Chromium	52-2	135000	136535	135466	135667	0.58	cps
Cobalt	59-2	219608	220951	218909	219822	0.47	cps
Copper	63-2	355492	356643	358571	356902	0.44	cps
Dysprosium	156-1	58	50	58	56	8.67	cps
Dysprosium	156-2	30	20	7	19	61.96	cps
Erbium	164-2	250	250	310	270	12.83	cps
Erbium	164-1	567	475	533	525	8.84	cps
Gadolinium	160-1	200	175	167	181	9.61	cps
Gadolinium	160-2	63	77	90	77	17.39	cps
Holmium	165-2	8777965	8720523	8705733	8734740	0.44	cps
Holmium	165-1	18048484	18320702	18106636	18158608	0.79	cps
Indium	115-1	15028296	15077418	14918246	15007987	0.54	cps
Indium	115-2	2629920	2649273	2639637	2639610	0.37	cps
Iron	56-2	22581014	22505178	22549904	22545365	0.17	cps
Iron	57-2	540465	540759	545206	542144	0.49	cps
Lead	206-1	342505	342022	336550	340359	0.97	cps
Lead	207-1	283861	283067	282340	283089	0.27	cps
Lead	208-1	1335173	1333936	1329383	1332831	0.23	cps
Lithium	6-1	1584319	1583732	1569424	1579158	0.53	cps
Magnesium	24-2	1027536	1035084	1039820	1034147	0.60	cps
Manganese	55-2	386288	386568	385889	386248	0.09	cps

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2700-11DLX20	Instrumnet Name :	P7
Client Sample ID :	S8-0656MSDL	Dilution Factor :	20
Date & Time Acquired ::	2017-04-18 16:40:51	DataFile Name :	062SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Molybdenum	94-1	471479	470816	466763	469686	0.54	cps
Molybdenum	95-1	402544	401808	395485	399945	0.97	cps
Molybdenum	96-1	468661	463961	467588	466737	0.53	cps
Molybdenum	97-1	250283	247769	244347	247466	1.20	cps
Molybdenum	98-1	643054	638283	638173	639837	0.44	cps
Neodymium	150-1	80	107	53	80	33.33	cps
Neodymium	150-2	23	23	13	20	28.87	cps
Nickel	60-2	59095	60210	60598	59968	1.30	cps
Phosphorus	31-2	583	675	633	631	7.28	cps
Potassium	39-2	591424	587419	590766	589870	0.36	cps
Rhodium	103-1	13698582	13946650	13957807	13867679	1.06	cps
Rhodium	103-2	6509561	6553862	6512968	6525463	0.38	cps
Scandium	45-1	9338266	9313302	9274387	9308652	0.35	cps
Scandium	45-2	421180	420319	422810	421436	0.30	cps
Selenium	77-2	377	250	267	298	23.11	cps
Selenium	78-2	1041	1196	1172	1136	7.37	cps
Selenium	82-1	7090	6832	6528	6817	4.13	cps
Silicon	28-1	4031059	4029569	4019249	4026626	0.16	cps
Silver	109-1	234804	235328	232808	234314	0.57	cps
Silver	107-1	244001	242855	244183	243680	0.30	cps
Sodium	23-2	2306032	2326534	2319270	2317279	0.45	cps
Strontium	86-1	171099	169716	169203	170006	0.58	cps
Strontium	88-1	1425640	1421848	1411427	1419638	0.52	cps
Sulfur	34-1	781518	772525	772878	775640	0.66	cps
Terbium	159-1	18751198	18651894	18728197	18710429	0.28	cps
Terbium	159-2	8603776	8662157	8597578	8621170	0.41	cps
Thallium	203-1	395054	391985	390439	392493	0.60	cps
Thallium	205-1	949150	947205	926013	940789	1.36	cps
Tin	118-1	680335	674717	669706	674919	0.79	cps
Titanium	47-1	116533	116903	116886	116774	0.18	cps
Uranium	238-1	1208242	1205006	1207061	1206770	0.14	cps
Vanadium	51-2	106642	105463	105974	106026	0.56	cps
Yttrium	89-1	15204491	15158094	15313744	15225443	0.52	cps
Yttrium	89-2	2043929	2089248	2082293	2071823	1.18	cps
Zinc	66-2	48534	48016	48999	48516	1.01	cps
Zirconium	90-1	666682	670623	655968	664424	1.14	cps

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LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2700-11DLX20	Instrumnet Name :	P7
Client Sample ID :	S8-0656MSDL	Dilution Factor :	20
Date & Time Acquired ::	2017-04-18 16:40:51	DataFile Name :	062SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Zirconium	91-1	147748	148017	146706	147490	0.47	cps

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2700-12	Instrumnet Name :	P7
Client Sample ID :	S8-0656MSD	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 16:44:21	DataFile Name :	063SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1346891	1337440	1349766	1344699	0.48	cps
Antimony	121-1	8205698	8413515	8367687	8328967	1.31	cps
Arsenic	75-2	445539	450100	450584	448741	0.62	cps
Barium	135-1	9913422	10036851	10157477	10035917	1.22	cps
Barium	137-1	17279085	17411468	17322957	17337837	0.39	cps
Beryllium	9-1	1327709	1325956	1332630	1328765	0.26	cps
Bismuth	209-2	5864739	5889551	5923402	5892564	0.50	cps
Bismuth	209-1	10906795	10801184	10906365	10871448	0.56	cps
Boron	10-1	414812	417446	424008	418755	1.13	cps
Boron	11-1	1950726	1965883	1985776	1967462	0.89	cps
Cadmium	106-1	222149	224272	228678	225033	1.48	cps
Cadmium	108-1	147781	150232	149916	149310	0.89	cps
Cadmium	111-1	1904301	1912687	1924992	1913993	0.54	cps
Calcium	43-1	3132658	3143881	3176377	3150972	0.72	cps
Calcium	44-1	52259583	52442504	51748366	52150151	0.69	cps
Chromium	52-2	2583687	2590404	2578879	2584323	0.22	cps
Cobalt	59-2	4196666	4218177	4224269	4213037	0.34	cps
Copper	63-2	6801392	6763937	6775844	6780391	0.28	cps
Dysprosium	156-2	287	307	320	304	5.51	cps
Dysprosium	156-1	850	958	817	875	8.47	cps
Erbium	164-1	8561	8361	9537	8820	7.13	cps
Erbium	164-2	3884	4111	4287	4094	4.94	cps
Gadolinium	160-2	697	670	660	676	2.81	cps
Gadolinium	160-1	1433	1333	1292	1353	5.38	cps
Holmium	165-2	8021343	8066199	8091132	8059558	0.44	cps
Holmium	165-1	16771925	16755056	17189016	16905332	1.45	cps
Indium	115-1	13614366	13608682	14032833	13751960	1.77	cps
Indium	115-2	2414016	2426996	2435042	2425351	0.44	cps
Iron	57-2	10578493	10603206	10556295	10579332	0.22	cps
Iron	56-2	429901799	427124976	429159421	428728732	0.34	cps
Lead	206-1	6581546	6652820	6751610	6661992	1.28	cps
Lead	207-1	5464821	5535925	5623723	5541490	1.44	cps
Lead	208-1	25923498	26262768	26621493	26269253	1.33	cps
Lithium	6-1	1525677	1550341	1573435	1549817	1.54	cps
Magnesium	24-2	19443948	19334409	19360886	19379748	0.29	cps
Manganese	55-2	7436604	7364182	7446413	7415733	0.61	cps

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2700-12	Instrumnet Name :	P7
Client Sample ID :	S8-0656MSD	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 16:44:21	DataFile Name :	063SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Molybdenum	94-1	9392813	9562890	9532838	9496180	0.96	cps
Molybdenum	95-1	8127032	8222721	8211543	8187099	0.64	cps
Molybdenum	96-1	9602192	9755066	9838298	9731852	1.23	cps
Molybdenum	97-1	4977358	4973966	5030746	4994023	0.64	cps
Molybdenum	98-1	13164906	13327242	13342790	13278313	0.74	cps
Neodymium	150-1	1320	1413	1340	1358	3.62	cps
Neodymium	150-2	287	280	317	294	6.63	cps
Nickel	60-2	1122138	1135388	1125513	1127680	0.61	cps
Phosphorus	31-2	4509	4701	4751	4654	2.74	cps
Potassium	39-2	10232115	10160741	10244086	10212314	0.44	cps
Rhodium	103-2	5626075	5648247	5660241	5644854	0.31	cps
Rhodium	103-1	12148277	12159246	12297535	12201686	0.68	cps
Scandium	45-1	8428803	8473959	8399069	8433943	0.45	cps
Scandium	45-2	371798	370467	373262	371842	0.38	cps
Selenium	77-2	5531	5488	5765	5594	2.66	cps
Selenium	78-2	18877	18492	18640	18670	1.04	cps
Selenium	82-1	126415	128673	128314	127800	0.95	cps
Silicon	28-1	65497726	65935654	65562756	65665379	0.36	cps
Silver	109-1	4396485	4424314	4442559	4421119	0.52	cps
Silver	107-1	4583801	4649672	4663833	4632435	0.92	cps
Sodium	23-2	43690213	43016600	43152210	43286341	0.82	cps
Strontium	86-1	3168502	3175443	3218283	3187409	0.85	cps
Strontium	88-1	27773763	28064238	28533968	28123990	1.36	cps
Sulfur	34-1	895316	893869	885345	891510	0.60	cps
Terbium	159-2	7871963	7885936	7952423	7903440	0.54	cps
Terbium	159-1	17157027	17315221	17319208	17263818	0.54	cps
Thallium	203-1	8013788	7930506	8126241	8023512	1.22	cps
Thallium	205-1	18539790	18797407	18980393	18772530	1.18	cps
Tin	118-1	13425806	13334110	13505999	13421972	0.64	cps
Titanium	47-1	2279577	2292913	2285250	2285913	0.29	cps
Uranium	238-1	25570162	25746828	25922821	25746604	0.68	cps
Vanadium	51-2	2041626	2035000	2045149	2040592	0.25	cps
Yttrium	89-2	1854515	1838571	1859302	1850796	0.59	cps
Yttrium	89-1	13792676	13822066	13807966	13807569	0.11	cps
Zinc	66-2	881470	887028	886734	885077	0.35	cps
Zirconium	90-1	13320020	13433947	13563882	13439283	0.91	cps

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2700-12	Instrumnet Name :	P7
Client Sample ID :	S8-0656MSD	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 16:44:21	DataFile Name :	063SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Zirconium	91-1	2897221	2942164	2940356	2926580	0.87	cps

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2700-12DLX20	Instrumnet Name :	P7
Client Sample ID :	S8-0656MSDDL	Dilution Factor :	20
Date & Time Acquired ::	2017-04-18 16:47:45	DataFile Name :	064SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	79369	77645	79429	78814	1.29	cps
Antimony	121-1	453246	451775	450081	451701	0.35	cps
Arsenic	75-2	25124	25535	25146	25268	0.92	cps
Barium	135-1	538293	535897	531070	535087	0.69	cps
Barium	137-1	937887	932133	926458	932159	0.61	cps
Beryllium	9-1	74622	74628	74360	74537	0.21	cps
Bismuth	209-1	11945254	11800850	11837489	11861197	0.63	cps
Bismuth	209-2	6518953	6535578	6527803	6527445	0.13	cps
Boron	10-1	33446	32436	30214	32032	5.16	cps
Boron	11-1	151629	148322	148676	149542	1.21	cps
Cadmium	106-1	18121	16686	17812	17539	4.31	cps
Cadmium	108-1	8365	8503	7794	8221	4.57	cps
Cadmium	111-1	111043	107599	107637	108760	1.82	cps
Calcium	43-1	176315	175184	175850	175783	0.32	cps
Calcium	44-1	2876851	2887691	2876359	2880300	0.22	cps
Chromium	52-2	145335	144224	145068	144876	0.40	cps
Cobalt	59-2	234478	237562	236227	236089	0.66	cps
Copper	63-2	380513	384416	380777	381902	0.57	cps
Dysprosium	156-2	20	23	40	28	38.58	cps
Dysprosium	156-1	33	83	58	58	42.86	cps
Erbium	164-1	500	500	592	531	9.98	cps
Erbium	164-2	237	240	240	239	0.81	cps
Gadolinium	160-2	63	80	93	79	19.06	cps
Gadolinium	160-1	233	175	250	219	17.95	cps
Holmium	165-2	8651760	8741419	8685641	8692940	0.52	cps
Holmium	165-1	18204365	17996864	17668722	17956651	1.50	cps
Indium	115-1	14959540	14667424	14721995	14782986	1.05	cps
Indium	115-2	2596662	2609242	2611374	2605760	0.31	cps
Iron	56-2	24015798	24198394	24180025	24131406	0.42	cps
Iron	57-2	575103	580470	577098	577557	0.47	cps
Lead	206-1	373605	366373	366575	368851	1.12	cps
Lead	207-1	308336	302195	305837	305456	1.01	cps
Lead	208-1	1447473	1422124	1430156	1433251	0.90	cps
Lithium	6-1	1573931	1554757	1551975	1560221	0.77	cps
Magnesium	24-2	1105670	1103480	1102833	1103994	0.13	cps
Manganese	55-2	409255	413953	410027	411078	0.61	cps

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On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2700-12DLX20	Instrumnet Name :	P7
Client Sample ID :	S8-0656MSDDL	Dilution Factor :	20
Date & Time Acquired ::	2017-04-18 16:47:45	DataFile Name :	064SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Molybdenum	94-1	509773	502733	497312	503273	1.24	cps
Molybdenum	95-1	436978	435980	426924	433294	1.28	cps
Molybdenum	96-1	510109	504090	502008	505402	0.83	cps
Molybdenum	97-1	268587	269460	264772	267606	0.93	cps
Molybdenum	98-1	699560	693396	690849	694602	0.64	cps
Neodymium	150-1	67	73	87	76	13.48	cps
Neodymium	150-2	13	17	33	21	50.75	cps
Nickel	60-2	64639	63634	64414	64229	0.82	cps
Phosphorus	31-2	667	667	617	650	4.44	cps
Potassium	39-2	623698	629711	627104	626838	0.48	cps
Rhodium	103-2	6426053	6457734	6413916	6432567	0.35	cps
Rhodium	103-1	13733842	13561053	13668708	13654535	0.64	cps
Scandium	45-1	9262699	9225279	9169847	9219275	0.51	cps
Scandium	45-2	407979	411264	413003	410749	0.62	cps
Selenium	77-2	350	357	367	358	2.35	cps
Selenium	78-2	1259	1124	1196	1193	5.67	cps
Selenium	82-1	7358	7204	7549	7370	2.34	cps
Silicon	28-1	4248891	4274432	4212275	4245199	0.74	cps
Silver	109-1	254647	245906	246916	249156	1.92	cps
Silver	107-1	262282	260114	259742	260713	0.53	cps
Sodium	23-2	2460949	2472074	2478924	2470649	0.37	cps
Strontium	86-1	181763	181096	181356	181405	0.19	cps
Strontium	88-1	1532409	1513398	1512801	1519536	0.73	cps
Sulfur	34-1	737078	735105	739213	737132	0.28	cps
Terbium	159-1	18698802	18714143	18688522	18700489	0.07	cps
Terbium	159-2	8547153	8574705	8437199	8519686	0.85	cps
Thallium	203-1	424065	420680	419394	421380	0.57	cps
Thallium	205-1	1032025	1015350	1014457	1020611	0.97	cps
Tin	118-1	742154	721882	728134	730723	1.42	cps
Titanium	47-1	126448	124876	126321	125881	0.69	cps
Uranium	238-1	1308793	1302954	1292705	1301484	0.63	cps
Vanadium	51-2	112871	113573	113596	113347	0.36	cps
Yttrium	89-2	2037079	2039396	2039273	2038583	0.06	cps
Yttrium	89-1	15105600	14891981	14805571	14934384	1.03	cps
Zinc	66-2	52106	51822	51156	51695	0.94	cps
Zirconium	90-1	714609	708518	705992	709706	0.62	cps

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2700-12DLX20	Instrumnet Name :	P7
Client Sample ID :	S8-0656MSDDL	Dilution Factor :	20
Date & Time Acquired ::	2017-04-18 16:47:45	DataFile Name :	064SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Zirconium	91-1	158121	161804	157931	159285	1.37	cps

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2700-10A	Instrumnet Name :	P7
Client Sample ID :	S8-0656A	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 16:51:14	DataFile Name :	065SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1303411	1303549	1298251	1301737	0.23	cps
Antimony	121-1	8051991	8192910	8218930	8154610	1.10	cps
Arsenic	75-2	434057	436107	434790	434985	0.24	cps
Barium	135-1	9695901	9705136	9781915	9727651	0.49	cps
Barium	137-1	16794688	16824155	16889516	16836120	0.29	cps
Beryllium	9-1	1298510	1314013	1309940	1307488	0.61	cps
Bismuth	209-2	5837045	5872219	5849256	5852840	0.31	cps
Bismuth	209-1	10844774	10921473	10886433	10884227	0.35	cps
Boron	10-1	400780	414869	416050	410566	2.07	cps
Boron	11-1	1893229	1929035	1929269	1917178	1.08	cps
Cadmium	108-1	144237	147672	145913	145941	1.18	cps
Cadmium	111-1	1869287	1872577	1875357	1872407	0.16	cps
Cadmium	106-1	217089	221598	221181	219956	1.13	cps
Calcium	43-1	3074451	3135773	3100109	3103444	0.99	cps
Calcium	44-1	50656274	51245944	50986217	50962812	0.58	cps
Chromium	52-2	2511543	2515282	2511322	2512716	0.09	cps
Cobalt	59-2	4073046	4093419	4091857	4086107	0.28	cps
Copper	63-2	6659026	6578622	6614588	6617412	0.61	cps
Dysprosium	156-2	263	347	320	310	13.73	cps
Dysprosium	156-1	917	892	925	911	1.90	cps
Erbium	164-1	8703	8670	9095	8823	2.68	cps
Erbium	164-2	3887	4077	4031	3998	2.48	cps
Gadolinium	160-1	1125	1367	1400	1297	11.57	cps
Gadolinium	160-2	700	680	730	703	3.58	cps
Holmium	165-1	16996511	16858261	17164774	17006515	0.90	cps
Holmium	165-2	8011990	7990899	7990240	7997710	0.15	cps
Indium	115-2	2396121	2400745	2398257	2398374	0.10	cps
Indium	115-1	13598519	13788836	13854789	13747381	0.97	cps
Iron	56-2	414695698	416843676	417700298	416413224	0.37	cps
Iron	57-2	10315645	10338721	10237410	10297259	0.52	cps
Lead	207-1	5431643	5483071	5445394	5453369	0.49	cps
Lead	208-1	25695522	26021994	25828052	25848523	0.64	cps
Lead	206-1	6503065	6559292	6586976	6549778	0.65	cps
Lithium	6-1	1528573	1543028	1553250	1541617	0.80	cps
Magnesium	24-2	19007491	18854511	18809994	18890665	0.55	cps
Manganese	55-2	7160658	7232586	7196610	7196618	0.50	cps

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2700-10A	Instrumnet Name :	P7
Client Sample ID :	S8-0656A	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 16:51:14	DataFile Name :	065SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Molybdenum	94-1	9291193	9384258	9382741	9352731	0.57	cps
Molybdenum	95-1	7977997	8051978	8073047	8034341	0.62	cps
Molybdenum	96-1	9473062	9577987	9493999	9515016	0.58	cps
Molybdenum	97-1	4862942	4858661	4880329	4867311	0.24	cps
Molybdenum	98-1	12787875	12945421	13004111	12912469	0.87	cps
Neodymium	150-1	1553	1360	1260	1391	10.72	cps
Neodymium	150-2	383	313	310	336	12.34	cps
Nickel	60-2	1090541	1097330	1096362	1094744	0.34	cps
Phosphorus	31-2	4676	4534	4668	4626	1.72	cps
Potassium	39-2	9949615	9809173	9798770	9852519	0.86	cps
Rhodium	103-2	5622779	5611953	5619403	5618045	0.10	cps
Rhodium	103-1	11923031	12248223	12236130	12135795	1.52	cps
Scandium	45-2	368070	368992	366063	367708	0.41	cps
Scandium	45-1	8332985	8365225	8359301	8352504	0.21	cps
Selenium	82-1	123832	125614	124845	124764	0.72	cps
Selenium	77-2	5271	5381	5398	5350	1.29	cps
Selenium	78-2	18210	17724	18586	18173	2.38	cps
Silicon	28-1	63747445	64979579	63763551	64163525	1.10	cps
Silver	107-1	4468933	4543741	4557723	4523465	1.06	cps
Silver	109-1	4286038	4339283	4378169	4334496	1.07	cps
Sodium	23-2	42228206	41973141	41735384	41978910	0.59	cps
Strontium	86-1	3108768	3134526	3137627	3126974	0.51	cps
Strontium	88-1	27318644	27763583	27862589	27648272	1.05	cps
Sulfur	34-1	882342	882710	880691	881914	0.12	cps
Terbium	159-2	7871815	7794665	7880084	7848855	0.60	cps
Terbium	159-1	17109671	17464211	17390304	17321395	1.08	cps
Thallium	203-1	7830932	7903643	7897016	7877197	0.51	cps
Thallium	205-1	18309712	18535057	18667675	18504148	0.98	cps
Tin	118-1	12947001	13290358	13189136	13142165	1.34	cps
Titanium	47-1	2209278	2230438	2224413	2221376	0.49	cps
Uranium	238-1	25007553	25350800	25410472	25256275	0.86	cps
Vanadium	51-2	1986173	1981647	1986392	1984737	0.13	cps
Yttrium	89-2	1839434	1836757	1834369	1836853	0.14	cps
Yttrium	89-1	13667431	13861641	13825041	13784705	0.75	cps
Zinc	66-2	857493	858221	860077	858597	0.16	cps
Zirconium	90-1	13100189	13256689	13236632	13197837	0.65	cps

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2700-10A	Instrumnet Name :	P7
Client Sample ID :	S8-0656A	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 16:51:14	DataFile Name :	065SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Zirconium	91-1	2838666	2886961	2898715	2874780	1.11	cps

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2700-10ADLX20	Instrumnet Name :	P7
Client Sample ID :	S8-0656ADL	Dilution Factor :	20
Date & Time Acquired ::	2017-04-18 16:54:38	DataFile Name :	066SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	75759	76271	74594	75541	1.14	cps
Antimony	121-1	444479	438725	439130	440778	0.73	cps
Arsenic	75-2	24157	24584	24647	24463	1.09	cps
Barium	135-1	517342	519909	517687	518313	0.27	cps
Barium	137-1	905452	905321	903041	904605	0.15	cps
Beryllium	9-1	74907	75632	74180	74906	0.97	cps
Bismuth	209-1	12090432	11953484	12056143	12033353	0.59	cps
Bismuth	209-2	6534081	6551286	6539477	6541615	0.13	cps
Boron	10-1	34540	33814	34140	34165	1.06	cps
Boron	11-1	163188	162110	159794	161698	1.07	cps
Cadmium	106-1	17144	17345	16510	17000	2.56	cps
Cadmium	108-1	8219	8303	8248	8257	0.51	cps
Cadmium	111-1	106443	107101	106467	106670	0.35	cps
Calcium	43-1	171753	171474	170244	171157	0.47	cps
Calcium	44-1	2837871	2818023	2811704	2822533	0.48	cps
Chromium	52-2	139816	139727	140693	140079	0.38	cps
Cobalt	59-2	229108	230423	229669	229734	0.29	cps
Copper	63-2	371862	372299	372125	372095	0.06	cps
Dysprosium	156-2	13	10	17	13	25.01	cps
Dysprosium	156-1	58	58	42	53	18.23	cps
Erbium	164-1	550	492	625	556	12.03	cps
Erbium	164-2	283	223	217	241	15.23	cps
Gadolinium	160-2	100	63	120	94	30.43	cps
Gadolinium	160-1	175	150	192	172	12.18	cps
Holmium	165-1	18281499	18166400	18112134	18186678	0.48	cps
Holmium	165-2	8821691	8717959	8713618	8751090	0.70	cps
Indium	115-2	2620304	2619347	2622400	2620684	0.06	cps
Indium	115-1	15005521	14852099	15106455	14988025	0.85	cps
Iron	56-2	23481187	23453214	23665147	23533183	0.49	cps
Iron	57-2	562789	561831	564405	563008	0.23	cps
Lead	206-1	360499	353837	356890	357075	0.93	cps
Lead	207-1	299391	296696	299912	298667	0.58	cps
Lead	208-1	1406277	1395509	1395363	1399050	0.45	cps
Lithium	6-1	1627239	1630868	1617139	1625082	0.44	cps
Magnesium	24-2	1066549	1073778	1068244	1069524	0.35	cps
Manganese	55-2	397826	401173	399231	399410	0.42	cps

Reviewed By:jaswal
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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2700-10ADLX20	Instrumnet Name :	P7
Client Sample ID :	S8-0656ADL	Dilution Factor :	20
Date & Time Acquired ::	2017-04-18 16:54:38	DataFile Name :	066SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Molybdenum	94-1	493701	492750	486977	491143	0.74	cps
Molybdenum	95-1	418141	420526	419960	419542	0.30	cps
Molybdenum	96-1	494240	489789	492672	492234	0.46	cps
Molybdenum	97-1	264037	262001	259139	261726	0.94	cps
Molybdenum	98-1	683070	670610	667146	673609	1.24	cps
Neodymium	150-1	60	160	120	113	44.41	cps
Neodymium	150-2	10	27	23	20	44.10	cps
Nickel	60-2	61756	62680	62995	62477	1.03	cps
Phosphorus	31-2	633	733	825	731	13.12	cps
Potassium	39-2	601945	602917	602803	602555	0.09	cps
Rhodium	103-2	6586269	6523357	6514361	6541329	0.60	cps
Rhodium	103-1	13827788	13822080	13796611	13815493	0.12	cps
Scandium	45-1	9359553	9355910	9250142	9321868	0.67	cps
Scandium	45-2	410522	412582	412826	411977	0.31	cps
Selenium	77-2	370	303	287	320	13.78	cps
Selenium	78-2	1180	1246	1207	1211	2.76	cps
Selenium	82-1	7830	6934	7088	7284	6.58	cps
Silicon	28-1	4208782	4163534	4145790	4172702	0.78	cps
Silver	109-1	245819	244583	245185	245196	0.25	cps
Silver	107-1	251823	255297	251831	252984	0.79	cps
Sodium	23-2	2382998	2395049	2396140	2391396	0.30	cps
Strontium	86-1	178926	176701	180024	178550	0.95	cps
Strontium	88-1	1497145	1493121	1491749	1494005	0.19	cps
Sulfur	34-1	768654	776362	768373	771130	0.59	cps
Terbium	159-1	18898519	18738410	18883715	18840214	0.47	cps
Terbium	159-2	8573703	8529549	8627237	8576829	0.57	cps
Thallium	203-1	414720	407687	408231	410213	0.95	cps
Thallium	205-1	997397	977352	988084	987611	1.02	cps
Tin	118-1	715101	701517	710134	708918	0.97	cps
Titanium	47-1	125109	121548	122766	123141	1.47	cps
Uranium	238-1	1277335	1279620	1268015	1274990	0.48	cps
Vanadium	51-2	109983	110577	108711	109757	0.87	cps
Yttrium	89-2	2041823	2039962	2043451	2041745	0.09	cps
Yttrium	89-1	15173462	15202061	15161939	15179154	0.14	cps
Zinc	66-2	49788	50561	51039	50463	1.25	cps
Zirconium	90-1	697474	686090	685928	689831	0.96	cps

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2700-10ADLX20	Instrumnet Name :	P7
Client Sample ID :	S8-0656ADL	Dilution Factor :	20
Date & Time Acquired ::	2017-04-18 16:54:38	DataFile Name :	066SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Zirconium	91-1	156100	154122	154863	155028	0.64	cps

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2700-10LX5	Instrumnet Name :	P7
Client Sample ID :	S8-0656L	Dilution Factor :	5
Date & Time Acquired ::	2017-04-18 16:58:07	DataFile Name :	067SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1142	1192	1042	1125	6.79	cps
Antimony	121-1	1925	1834	1550	1770	11.05	cps
Arsenic	75-2	31874	31751	31634	31753	0.38	cps
Barium	135-1	14825	14633	14033	14497	2.85	cps
Barium	137-1	24147	24105	24330	24194	0.50	cps
Beryllium	9-1	217	206	278	233	16.67	cps
Bismuth	209-2	6517029	6516530	6510179	6514579	0.06	cps
Bismuth	209-1	11792681	11867054	11940676	11866804	0.62	cps
Boron	10-1	11005	10312	10312	10543	3.79	cps
Boron	11-1	51121	50360	50477	50653	0.81	cps
Cadmium	111-1	1116	1114	1129	1119	0.72	cps
Cadmium	106-1	5251	5185	5176	5204	0.79	cps
Cadmium	108-1	29	25	25	26	9.12	cps
Calcium	43-1	143498	143364	145350	144071	0.77	cps
Calcium	44-1	2364404	2344142	2370476	2359674	0.58	cps
Chromium	52-2	1560	1517	1587	1555	2.27	cps
Cobalt	59-2	5508	5815	5635	5652	2.73	cps
Copper	63-2	49564	49467	49420	49484	0.15	cps
Dysprosium	156-2	57	53	93	68	32.75	cps
Dysprosium	156-1	158	108	142	136	18.70	cps
Erbium	164-1	158	250	142	183	31.82	cps
Erbium	164-2	73	103	70	82	22.33	cps
Gadolinium	160-2	117	90	93	100	14.53	cps
Gadolinium	160-1	200	217	242	219	9.56	cps
Holmium	165-1	17960763	17878120	17959570	17932818	0.26	cps
Holmium	165-2	8664453	8633994	8580238	8626228	0.49	cps
Indium	115-2	2609679	2638119	2610240	2619346	0.62	cps
Indium	115-1	14619950	14795461	14802060	14739157	0.70	cps
Iron	56-2	64753865	64445121	63679776	64292921	0.86	cps
Iron	57-2	1548904	1558442	1553741	1553696	0.31	cps
Lead	206-1	9765	9431	9493	9563	1.86	cps
Lead	207-1	8559	8069	8303	8310	2.94	cps
Lead	208-1	38300	37110	38167	37859	1.72	cps
Lithium	6-1	1629572	1618559	1631257	1626463	0.42	cps
Magnesium	24-2	273928	276631	272850	274469	0.71	cps
Manganese	55-2	919476	917818	916243	917845	0.18	cps

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2700-10LX5	Instrumnet Name :	P7
Client Sample ID :	S8-0656L	Dilution Factor :	5
Date & Time Acquired ::	2017-04-18 16:58:07	DataFile Name :	067SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Molybdenum	94-1	3151	3359	3684	3398	7.91	cps
Molybdenum	95-1	2942	4376	4751	4023	23.73	cps
Molybdenum	96-1	3659	4634	5751	4682	22.36	cps
Molybdenum	97-1	1842	2317	2817	2325	20.97	cps
Molybdenum	98-1	5018	6393	7536	6316	19.96	cps
Neodymium	150-1	147	167	193	169	13.86	cps
Neodymium	150-2	43	60	80	61	30.04	cps
Nickel	60-2	1597	1533	1530	1553	2.42	cps
Phosphorus	31-2	1425	1217	1067	1236	14.56	cps
Potassium	39-2	301249	302372	298913	300845	0.59	cps
Rhodium	103-2	6526155	6533716	6472354	6510741	0.51	cps
Rhodium	103-1	13540325	13636187	13695895	13624136	0.58	cps
Scandium	45-1	9190441	9145185	9331791	9222472	1.06	cps
Scandium	45-2	418621	418470	414243	417111	0.60	cps
Selenium	77-2	3	3	13	7	86.65	cps
Selenium	78-2	113	141	143	132	12.57	cps
Selenium	82-1	-136	-87	-140	-121	-24.34	cps
Silicon	28-1	12399706	12439029	12412644	12417126	0.16	cps
Silver	109-1	1667	1417	1542	1542	8.11	cps
Silver	107-1	1642	1775	1742	1720	4.04	cps
Sodium	23-2	1488115	1492934	1478781	1486610	0.48	cps
Strontium	86-1	138934	138868	141246	139682	0.97	cps
Strontium	88-1	1160450	1158642	1161385	1160159	0.12	cps
Sulfur	34-1	806365	803521	811996	807294	0.53	cps
Terbium	159-1	18392111	18492624	18556812	18480516	0.45	cps
Terbium	159-2	8496118	8548639	8502342	8515700	0.34	cps
Thallium	203-1	1033	842	942	939	10.21	cps
Thallium	205-1	2259	2159	2750	2389	13.26	cps
Tin	118-1	2659	2625	2950	2745	6.52	cps
Titanium	47-1	1450	1617	1625	1564	6.31	cps
Uranium	238-1	767	800	983	850	13.73	cps
Vanadium	51-2	390	357	433	393	9.77	cps
Yttrium	89-2	2040970	2040599	2015207	2032259	0.73	cps
Yttrium	89-1	15037766	14908130	14985321	14977072	0.44	cps
Zinc	66-2	5041	5091	4944	5025	1.48	cps
Zirconium	90-1	3042	3134	3851	3342	13.25	cps

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2700-10LX5	Instrumnet Name :	P7
Client Sample ID :	S8-0656L	Dilution Factor :	5
Date & Time Acquired ::	2017-04-18 16:58:07	DataFile Name :	067SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Zirconium	91-1	708	792	858	786	9.56	cps

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On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2700-10LDLX100	Instrumnet Name :	P7
Client Sample ID :	S8-0656LDL	Dilution Factor :	100
Date & Time Acquired ::	2017-04-18 17:01:36	DataFile Name :	068SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	200	208	142	183	19.81	cps
Antimony	121-1	675	775	958	803	17.90	cps
Arsenic	75-2	1680	1746	1680	1702	2.26	cps
Barium	135-1	883	925	783	864	8.43	cps
Barium	137-1	1358	1175	1525	1353	12.94	cps
Beryllium	9-1	139	128	172	146	15.81	cps
Bismuth	209-1	11888351	11839999	11792865	11840405	0.40	cps
Bismuth	209-2	6467066	6537179	6554809	6519685	0.71	cps
Boron	10-1	4442	4092	4351	4295	4.23	cps
Boron	11-1	19739	19597	18812	19383	2.57	cps
Cadmium	111-1	1120	1028	1070	1073	4.32	cps
Cadmium	106-1	5218	4993	5160	5123	2.28	cps
Cadmium	108-1	4	21	13	13	66.64	cps
Calcium	43-1	7852	8128	7927	7969	1.78	cps
Calcium	44-1	145569	145981	145508	145686	0.18	cps
Chromium	52-2	867	957	897	907	5.05	cps
Cobalt	59-2	377	353	340	357	5.20	cps
Copper	63-2	13270	13627	13340	13412	1.41	cps
Dysprosium	156-2	10	7	7	8	24.71	cps
Dysprosium	156-1	8	8	25	14	69.31	cps
Erbium	164-1	100	58	42	67	45.06	cps
Erbium	164-2	73	20	27	40	72.64	cps
Gadolinium	160-2	57	37	37	43	26.64	cps
Gadolinium	160-1	133	158	108	133	18.75	cps
Holmium	165-1	17825648	17762464	17656295	17748136	0.48	cps
Holmium	165-2	8616666	8701746	8606555	8641655	0.61	cps
Indium	115-2	2606905	2615959	2640328	2621064	0.66	cps
Indium	115-1	14916766	14759434	14680305	14785501	0.81	cps
Iron	56-2	3136265	3151063	3149366	3145564	0.26	cps
Iron	57-2	77231	78739	77717	77896	0.99	cps
Lead	206-1	2039	1922	2000	1987	2.99	cps
Lead	207-1	1922	1739	1761	1808	5.54	cps
Lead	208-1	8407	7796	8168	8123	3.79	cps
Lithium	6-1	1617443	1590919	1600314	1602892	0.84	cps
Magnesium	24-2	14583	14207	14157	14316	1.62	cps
Manganese	55-2	46513	45805	45798	46039	0.89	cps

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2700-10LDLX100	Instrumnet Name :	P7
Client Sample ID :	S8-0656LDL	Dilution Factor :	100
Date & Time Acquired ::	2017-04-18 17:01:36	DataFile Name :	068SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Molybdenum	94-1	1058	1150	1458	1222	17.15	cps
Molybdenum	95-1	983	1367	2009	1453	35.65	cps
Molybdenum	96-1	1233	1792	2075	1700	25.19	cps
Molybdenum	97-1	542	925	1142	870	34.95	cps
Molybdenum	98-1	1959	2584	2717	2420	16.73	cps
Neodymium	150-2	3	3	0	2	86.60	cps
Neodymium	150-1	33	13	13	20	57.74	cps
Nickel	60-2	440	357	333	377	14.89	cps
Phosphorus	31-2	567	467	517	517	9.68	cps
Potassium	39-2	67186	67763	65730	66893	1.57	cps
Rhodium	103-1	13921349	13597250	13662531	13727043	1.25	cps
Rhodium	103-2	6495342	6559161	6524098	6526200	0.49	cps
Scandium	45-2	418551	413937	420053	417513	0.76	cps
Scandium	45-1	9292759	9342042	9239415	9291405	0.55	cps
Selenium	82-1	75	-93	199	60	243.43	cps
Selenium	77-2	0	3	0	1	173.21	cps
Selenium	78-2	139	137	126	134	5.23	cps
Silicon	28-1	1275242	1266271	1268090	1269868	0.37	cps
Silver	109-1	758	708	967	811	16.89	cps
Silver	107-1	917	825	900	881	5.55	cps
Sodium	23-2	110579	108902	111429	110304	1.17	cps
Strontium	86-1	13232	13849	13465	13515	2.31	cps
Strontium	88-1	60704	60921	58830	60152	1.91	cps
Sulfur	34-1	786425	787352	790637	788138	0.28	cps
Terbium	159-1	18451136	18234902	18158476	18281505	0.83	cps
Terbium	159-2	8537288	8379451	8438937	8451892	0.94	cps
Thallium	203-1	367	450	425	414	10.33	cps
Thallium	205-1	1117	1133	1033	1095	4.90	cps
Tin	118-1	1083	1300	1317	1233	10.55	cps
Titanium	47-1	292	258	442	331	29.54	cps
Uranium	238-1	267	258	292	272	6.37	cps
Vanadium	51-2	57	67	70	64	10.76	cps
Yttrium	89-2	2036736	2052956	2052355	2047349	0.45	cps
Yttrium	89-1	15171345	14887581	14992648	15017191	0.96	cps
Zinc	66-2	610	703	770	694	11.57	cps
Zirconium	90-1	1108	1250	1400	1253	11.64	cps

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2700-10LDLX100	Instrumnet Name :	P7
Client Sample ID :	S8-0656LDL	Dilution Factor :	100
Date & Time Acquired ::	2017-04-18 17:01:36	DataFile Name :	068SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Zirconium	91-1	175	258	242	225	19.60	cps

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2745-01	Instrumnet Name :	P7
Client Sample ID :	D1K1-GW-MW-01	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 17:05:06	DataFile Name :	069SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	5971	3317	2934	4074	40.60	cps
Antimony	121-1	13490	12598	13540	13210	4.02	cps
Arsenic	75-2	42739	43138	42961	42946	0.47	cps
Barium	135-1	272500	271923	278414	274279	1.31	cps
Barium	137-1	475505	477635	478922	477354	0.36	cps
Beryllium	9-1	172	94	172	146	30.69	cps
Bismuth	209-1	10860756	10930972	10822715	10871481	0.51	cps
Bismuth	209-2	5774623	5803723	5793229	5790525	0.25	cps
Boron	10-1	18262	18211	18245	18239	0.14	cps
Boron	11-1	84888	85726	85675	85430	0.55	cps
Cadmium	106-1	5660	6368	5418	5815	8.49	cps
Cadmium	108-1	1100	1079	1075	1085	1.24	cps
Cadmium	111-1	16139	16097	16523	16253	1.44	cps
Calcium	43-1	4502257	4572143	4719546	4597982	2.41	cps
Calcium	44-1	73818004	75747612	74964720	74843445	1.30	cps
Chromium	52-2	6535	6195	6415	6381	2.70	cps
Cobalt	59-2	2454	2514	2424	2464	1.86	cps
Copper	63-2	52708	53595	53467	53257	0.90	cps
Dysprosium	156-1	383	508	417	436	14.84	cps
Dysprosium	156-2	203	227	207	212	5.95	cps
Erbium	164-2	250	197	250	232	13.26	cps
Erbium	164-1	508	408	625	514	21.10	cps
Gadolinium	160-1	500	475	367	447	15.85	cps
Gadolinium	160-2	247	277	290	271	8.19	cps
Holmium	165-2	7852659	7843308	7936284	7877417	0.65	cps
Holmium	165-1	16598902	16839312	16831826	16756680	0.82	cps
Indium	115-1	13591720	13750196	13963134	13768350	1.35	cps
Indium	115-2	2400617	2411933	2428671	2413740	0.58	cps
Iron	56-2	514544	512720	506837	511367	0.79	cps
Iron	57-2	13646	13590	13723	13653	0.49	cps
Lead	206-1	32150	32864	33381	32798	1.88	cps
Lead	207-1	26622	26661	27145	26809	1.09	cps
Lead	208-1	125852	127515	126819	126729	0.66	cps
Lithium	6-1	1570641	1569207	1578358	1572735	0.31	cps
Magnesium	24-2	22671315	22646801	22581416	22633177	0.21	cps
Manganese	55-2	620723	621226	619126	620358	0.18	cps

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On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2745-01	Instrumnet Name :	P7
Client Sample ID :	D1K1-GW-MW-01	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 17:05:06	DataFile Name :	069SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Molybdenum	94-1	16218	16619	17027	16621	2.43	cps
Molybdenum	95-1	20174	20866	21175	20738	2.47	cps
Molybdenum	96-1	22210	23312	23462	22994	2.97	cps
Molybdenum	97-1	12247	12931	13073	12751	3.46	cps
Molybdenum	98-1	31853	34259	34710	33607	4.57	cps
Neodymium	150-1	387	480	460	442	11.11	cps
Neodymium	150-2	150	160	180	163	9.35	cps
Nickel	60-2	4374	4307	4321	4334	0.81	cps
Phosphorus	31-2	525	417	533	492	13.24	cps
Potassium	39-2	265732	271142	270091	268988	1.07	cps
Rhodium	103-2	5533658	5512407	5569851	5538639	0.52	cps
Rhodium	103-1	11908500	12362575	12072768	12114615	1.90	cps
Scandium	45-1	8134214	8424842	8388359	8315805	1.90	cps
Scandium	45-2	358062	358965	359804	358944	0.24	cps
Selenium	77-2	17	43	27	29	46.62	cps
Selenium	78-2	94	144	137	125	21.53	cps
Selenium	82-1	16	75	-98	-2	-3993.07	cps
Silicon	28-1	66419604	66539833	65838854	66266097	0.57	cps
Silver	107-1	6177	6552	6435	6388	3.01	cps
Silver	109-1	6177	6502	5718	6132	6.42	cps
Sodium	23-2	13863057	13728358	13822531	13804648	0.50	cps
Strontium	86-1	7916776	8023844	8066658	8002426	0.96	cps
Strontium	88-1	67506943	68902141	69175324	68528136	1.31	cps
Sulfur	34-1	2058885	2060100	2066620	2061869	0.20	cps
Terbium	159-1	16911903	17156836	17245122	17104620	1.01	cps
Terbium	159-2	7796952	7729758	7785697	7770802	0.46	cps
Thallium	203-1	517	600	442	519	15.25	cps
Thallium	205-1	1375	1258	1267	1300	5.01	cps
Tin	118-1	16460	15826	15943	16076	2.10	cps
Titanium	47-1	3159	2892	2992	3014	4.47	cps
Uranium	238-1	183431	184900	186231	184854	0.76	cps
Vanadium	51-2	2560	2520	2837	2639	6.54	cps
Yttrium	89-2	1792330	1799446	1798105	1796627	0.21	cps
Yttrium	89-1	13448075	13772742	13957293	13726037	1.88	cps
Zinc	66-2	9690	10287	9780	9919	3.25	cps
Zirconium	90-1	10713	11388	12181	11427	6.43	cps

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LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2745-01	Instrumnet Name :	P7
Client Sample ID :	D1K1-GW-MW-01	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 17:05:06	DataFile Name :	069SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Zirconium	91-1	2734	2884	3084	2900	6.06	cps

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	CCV68	Instrumnet Name :	P7
Client Sample ID :	CCV68	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 17:08:35	DataFile Name :	070CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1424586	1426744	1434595	1428642	0.37	cps
Antimony	121-1	8147810	8058098	8040851	8082253	0.71	cps
Arsenic	75-2	301456	302589	301931	301992	0.19	cps
Barium	135-1	9779156	9743439	9858446	9793680	0.60	cps
Barium	137-1	17110819	16952958	17102981	17055586	0.52	cps
Beryllium	9-1	1378633	1386247	1395710	1386863	0.62	cps
Bismuth	209-1	11174232	11416015	11226078	11272108	1.13	cps
Bismuth	209-2	6206417	6301767	6258177	6255454	0.76	cps
Boron	10-1	196628	200317	201035	199327	1.19	cps
Boron	11-1	934768	951224	967921	951304	1.74	cps
Cadmium	111-1	2006643	1995666	2006534	2002947	0.31	cps
Cadmium	106-1	236108	238392	239233	237911	0.68	cps
Cadmium	108-1	154329	153950	156870	155050	1.02	cps
Calcium	43-1	2339053	2359152	2382044	2360083	0.91	cps
Calcium	44-1	38420526	39386848	39386847	39064740	1.43	cps
Chromium	52-2	2670799	2673320	2668920	2671013	0.08	cps
Cobalt	59-2	4335219	4353518	4314552	4334430	0.45	cps
Copper	63-2	6537968	6605037	6437088	6526697	1.30	cps
Dysprosium	156-2	30	20	40	30	33.33	cps
Dysprosium	156-1	150	125	158	144	12.01	cps
Erbium	164-1	92	117	42	83	45.82	cps
Erbium	164-2	57	40	50	49	17.16	cps
Gadolinium	160-2	63	57	57	59	6.53	cps
Gadolinium	160-1	142	133	100	125	17.64	cps
Holmium	165-1	17610071	17510309	17578241	17566207	0.29	cps
Holmium	165-2	8499610	8501573	8429563	8476915	0.48	cps
Indium	115-2	2563758	2557290	2554591	2558546	0.18	cps
Indium	115-1	14292107	14254003	14293804	14279971	0.16	cps
Iron	56-2	111318822	110773914	111582183	111224973	0.37	cps
Iron	57-2	2666535	2680502	2669120	2672052	0.28	cps
Lead	206-1	6315099	6287130	6310995	6304408	0.24	cps
Lead	207-1	5696503	5723965	5724152	5714873	0.28	cps
Lead	208-1	25820496	25971171	25937255	25909641	0.31	cps
Lithium	6-1	1500872	1520126	1520117	1513705	0.73	cps
Magnesium	24-2	18918304	18893426	19116196	18975976	0.64	cps
Manganese	55-2	2853735	2853239	2864854	2857276	0.23	cps

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	CCV68	Instrumnet Name :	P7
Client Sample ID :	CCV68	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 17:08:35	DataFile Name :	070CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Molybdenum	94-1	7516559	7533950	7542520	7531010	0.18	cps
Molybdenum	95-1	3955010	3952905	3964505	3957473	0.16	cps
Molybdenum	96-1	5099532	5118643	5110258	5109478	0.19	cps
Molybdenum	97-1	2443796	2443398	2455130	2447441	0.27	cps
Molybdenum	98-1	6464211	6606199	6509270	6526560	1.11	cps
Neodymium	150-1	520	560	547	542	3.76	cps
Neodymium	150-2	23	77	50	50	53.34	cps
Nickel	60-2	1148286	1163270	1163012	1158189	0.74	cps
Phosphorus	31-2	86148	87724	88461	87445	1.35	cps
Potassium	39-2	9496549	9395682	9504987	9465739	0.64	cps
Rhodium	103-1	12798828	12924471	12922117	12881805	0.56	cps
Rhodium	103-2	6150343	6242570	6033334	6142082	1.71	cps
Scandium	45-2	409208	412227	412072	411169	0.41	cps
Scandium	45-1	8890715	8883146	9009858	8927906	0.80	cps
Selenium	82-1	131619	131079	131510	131402	0.22	cps
Selenium	77-2	5878	5841	5751	5823	1.12	cps
Selenium	78-2	19858	19938	19979	19925	0.31	cps
Silicon	28-1	4677918	4811046	4811651	4766871	1.62	cps
Silver	109-1	10036546	9906228	10043203	9995326	0.77	cps
Silver	107-1	10493683	10504670	10570477	10522943	0.39	cps
Sodium	23-2	37899687	37714750	38135284	37916574	0.56	cps
Strontium	86-1	2974616	2990044	2987283	2983981	0.28	cps
Strontium	88-1	26423490	26225803	26400586	26349959	0.41	cps
Sulfur	34-1	1573528	1579816	1575314	1576219	0.21	cps
Terbium	159-1	17864987	17988076	17987841	17946968	0.40	cps
Terbium	159-2	8293526	8443708	8310127	8349120	0.99	cps
Thallium	203-1	8099076	8139642	8247057	8161925	0.94	cps
Thallium	205-1	19105342	19158356	18969154	19077617	0.51	cps
Tin	118-1	6765566	6816889	6881024	6821160	0.85	cps
Titanium	47-1	1157147	1166674	1172649	1165490	0.67	cps
Uranium	238-1	26223744	26705969	26492923	26474212	0.91	cps
Vanadium	51-2	2166866	2182325	2173162	2174118	0.36	cps
Yttrium	89-2	2005400	2020144	2002419	2009321	0.47	cps
Yttrium	89-1	14577306	14579082	14600616	14585668	0.09	cps
Zinc	66-2	886705	895770	885445	889307	0.63	cps
Zirconium	91-1	3109653	3131731	3114111	3118498	0.37	cps

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LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	CCV68	Instrumnet Name :	P7
Client Sample ID :	CCV68	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 17:08:35	DataFile Name :	070CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Zirconium	90-1	14221893	14457738	14373116	14350916	0.83	cps

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	CCB68	Instrumnet Name :	P7
Client Sample ID :	CCB68	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 17:16:10	DataFile Name :	071CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	75	83	75	78	6.19	cps
Antimony	121-1	12156	15468	19831	15818	24.34	cps
Arsenic	75-2	117	115	98	110	9.28	cps
Barium	135-1	100	175	50	108	58.08	cps
Barium	137-1	275	167	250	231	24.60	cps
Beryllium	9-1	94	150	117	120	23.23	cps
Bismuth	209-1	11871274	11960571	11929185	11920343	0.38	cps
Bismuth	209-2	6576482	6547938	6468063	6530828	0.86	cps
Boron	10-1	2750	2834	2450	2678	7.53	cps
Boron	11-1	12923	13790	13206	13306	3.32	cps
Cadmium	106-1	4818	4826	5151	4932	3.86	cps
Cadmium	108-1	17	17	17	17	0.00	cps
Cadmium	111-1	991	1018	1054	1021	3.07	cps
Calcium	43-1	583	475	475	511	12.24	cps
Calcium	44-1	25565	25456	24972	25331	1.25	cps
Chromium	52-2	800	773	953	842	11.53	cps
Cobalt	59-2	117	157	87	120	29.26	cps
Copper	63-2	11118	10824	10757	10900	1.76	cps
Dysprosium	156-1	17	8	8	11	43.34	cps
Dysprosium	156-2	7	3	7	6	34.70	cps
Erbium	164-2	27	17	33	26	32.81	cps
Erbium	164-1	83	92	50	75	29.40	cps
Gadolinium	160-1	83	108	108	100	14.43	cps
Gadolinium	160-2	40	47	47	44	8.66	cps
Holmium	165-2	8650293	8589454	8663182	8634309	0.46	cps
Holmium	165-1	17783912	17745902	17712901	17747572	0.20	cps
Indium	115-1	14588968	14537470	14683125	14603188	0.51	cps
Indium	115-2	2658771	2632235	2604741	2631916	1.03	cps
Iron	56-2	9348	9926	9792	9689	3.12	cps
Iron	57-2	178	211	183	191	9.36	cps
Lead	206-1	1939	1806	1978	1908	4.74	cps
Lead	207-1	1639	1917	1789	1782	7.81	cps
Lead	208-1	7473	7701	7357	7510	2.33	cps
Lithium	6-1	1512771	1542481	1521877	1525710	1.00	cps
Magnesium	24-2	325	325	425	358	16.11	cps
Manganese	55-2	117	140	157	138	14.58	cps

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LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	CCB68	Instrumnet Name :	P7
Client Sample ID :	CCB68	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 17:16:10	DataFile Name :	071CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Molybdenum	96-1	1625	2384	2992	2334	29.35	cps
Molybdenum	94-1	1317	1525	2159	1667	26.30	cps
Molybdenum	95-1	1734	2025	2809	2189	25.40	cps
Molybdenum	97-1	1033	1442	1884	1453	29.26	cps
Molybdenum	98-1	2434	3417	4601	3484	31.15	cps
Neodymium	150-1	0	7	7	4	86.60	cps
Neodymium	150-2	0	3	0	1	173.21	cps
Nickel	60-2	303	350	290	314	10.02	cps
Phosphorus	31-2	408	492	375	425	14.14	cps
Potassium	39-2	55070	55998	55128	55399	0.94	cps
Rhodium	103-2	6540509	6405767	6437783	6461353	1.09	cps
Rhodium	103-1	13590938	13591240	13622698	13601626	0.13	cps
Scandium	45-1	9151710	9107548	9040511	9099923	0.62	cps
Scandium	45-2	422380	420848	415886	419704	0.81	cps
Selenium	77-2	10	0	3	4	114.60	cps
Selenium	78-2	133	137	124	131	5.08	cps
Selenium	82-1	-170	63	276	56	395.68	cps
Silicon	28-1	504453	506861	504325	505213	0.28	cps
Silver	107-1	925	1017	875	939	7.65	cps
Silver	109-1	808	800	658	756	11.16	cps
Sodium	23-2	35017	34900	34190	34702	1.29	cps
Strontium	86-1	7210	7627	7452	7430	2.82	cps
Strontium	88-1	1359	1092	1142	1197	11.84	cps
Sulfur	34-1	777756	782082	785650	781830	0.51	cps
Terbium	159-1	18293177	18469165	18206616	18322986	0.73	cps
Terbium	159-2	8681879	8415793	8555586	8551086	1.56	cps
Thallium	203-1	383	383	308	358	12.08	cps
Thallium	205-1	908	958	800	889	9.11	cps
Tin	118-1	1542	1950	2184	1892	17.17	cps
Titanium	47-1	183	150	225	186	20.19	cps
Uranium	238-1	258	208	192	219	15.81	cps
Vanadium	51-2	50	50	40	47	12.37	cps
Yttrium	89-2	2066846	2049948	2039769	2052188	0.67	cps
Yttrium	89-1	14863539	15013236	14852191	14909655	0.60	cps
Zinc	66-2	340	323	320	328	3.27	cps
Zirconium	90-1	1192	1117	1525	1278	17.01	cps

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LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	CCB68	Instrumnet Name :	P7
Client Sample ID :	CCB68	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 17:16:10	DataFile Name :	071CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Zirconium	91-1	233	325	417	325	28.20	cps

Reviewed By:jaswal
On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2745-02	Instrumnet Name :	P7
Client Sample ID :	D1K1-GW-MW-02	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 17:19:40	DataFile Name :	072SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	216714	227725	217166	220535	2.83	cps
Antimony	121-1	120858	122238	129250	124115	3.63	cps
Arsenic	75-2	294924	295320	295838	295360	0.16	cps
Barium	135-1	139285	138155	141767	139736	1.32	cps
Barium	137-1	248539	245688	248427	247551	0.65	cps
Beryllium	9-1	333	339	283	319	9.61	cps
Bismuth	209-1	10690909	10763044	10605623	10686526	0.74	cps
Bismuth	209-2	5417744	5414833	5443737	5425438	0.29	cps
Boron	10-1	31149	33062	32795	32335	3.20	cps
Boron	11-1	150426	152277	151847	151517	0.64	cps
Cadmium	111-1	3806	3996	3891	3898	2.43	cps
Cadmium	106-1	4759	4576	4267	4534	5.48	cps
Cadmium	108-1	396	263	313	324	20.81	cps
Calcium	43-1	15621049	15763808	15765358	15716738	0.53	cps
Calcium	44-1	253523156	254801906	255825706	254716922	0.45	cps
Chromium	52-2	14100	14841	14504	14482	2.56	cps
Cobalt	59-2	29269	29824	29607	29567	0.95	cps
Copper	63-2	148379	148416	148982	148593	0.23	cps
Dysprosium	156-2	2574	2460	2850	2628	7.64	cps
Dysprosium	156-1	6360	6727	6519	6535	2.82	cps
Erbium	164-1	5551	5618	5818	5663	2.45	cps
Erbium	164-2	2417	2407	2674	2499	6.05	cps
Gadolinium	160-2	3140	3047	3014	3067	2.14	cps
Gadolinium	160-1	6244	6110	5952	6102	2.40	cps
Holmium	165-2	7463387	7508951	7512819	7495052	0.37	cps
Holmium	165-1	16363707	16537718	16942529	16614651	1.79	cps
Indium	115-1	13562522	13532996	13672220	13589246	0.54	cps
Indium	115-2	2261954	2280618	2279411	2273995	0.46	cps
Iron	56-2	13341624	13465795	13231274	13346231	0.88	cps
Iron	57-2	330641	325794	323970	326801	1.06	cps
Lead	206-1	689512	689727	686646	688628	0.25	cps
Lead	207-1	535449	535279	533520	534749	0.20	cps
Lead	208-1	2571892	2565681	2572030	2569868	0.14	cps
Lithium	6-1	1444117	1451338	1456021	1450492	0.41	cps
Magnesium	24-2	17913998	17975790	17763814	17884534	0.61	cps
Manganese	55-2	1141921	1158709	1141958	1147529	0.84	cps

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2745-02	Instrumnet Name :	P7
Client Sample ID :	D1K1-GW-MW-02	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 17:19:40	DataFile Name :	072SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Molybdenum	94-1	33834	35019	33800	34218	2.03	cps
Molybdenum	95-1	32713	33165	33156	33012	0.78	cps
Molybdenum	96-1	37811	37183	39707	38233	3.44	cps
Molybdenum	97-1	20307	20290	21350	20649	2.94	cps
Molybdenum	98-1	51294	52531	52038	51954	1.20	cps
Neodymium	150-1	9310	9310	9090	9237	1.38	cps
Neodymium	150-2	2950	3100	3224	3092	4.43	cps
Nickel	60-2	13099	12876	13079	13018	0.95	cps
Phosphorus	31-2	5968	6110	5876	5985	1.97	cps
Potassium	39-2	1108941	1122674	1102384	1111333	0.93	cps
Rhodium	103-1	11624256	11790023	12031707	11815328	1.73	cps
Rhodium	103-2	5142214	5188211	5180221	5170215	0.48	cps
Scandium	45-2	341064	344889	340193	342049	0.73	cps
Scandium	45-1	8279366	8347898	8450507	8359257	1.03	cps
Selenium	77-2	43	57	83	61	33.33	cps
Selenium	78-2	174	183	137	165	14.86	cps
Selenium	82-1	109	-76	43	25	372.40	cps
Silicon	28-1	93179744	94707056	93324031	93736944	0.90	cps
Silver	109-1	7494	7411	6952	7285	4.01	cps
Silver	107-1	7677	7252	7002	7311	4.67	cps
Sodium	23-2	16695392	16826335	16643257	16721661	0.56	cps
Strontium	86-1	6380613	6401221	6452463	6411432	0.58	cps
Strontium	88-1	55311782	54609424	56190537	55370581	1.43	cps
Sulfur	34-1	13105686	13364870	13239414	13236657	0.98	cps
Terbium	159-1	16877458	17135404	16906449	16973103	0.83	cps
Terbium	159-2	7311222	7334379	7395298	7346966	0.59	cps
Thallium	205-1	4218	4376	4276	4290	1.87	cps
Thallium	203-1	1584	1942	1534	1686	13.21	cps
Tin	118-1	28639	28555	29306	28833	1.43	cps
Titanium	47-1	106321	109773	116994	111029	4.91	cps
Uranium	238-1	159363	162399	161296	161019	0.95	cps
Vanadium	51-2	21817	21639	21529	21662	0.67	cps
Yttrium	89-1	13525568	13541629	13687190	13584795	0.66	cps
Yttrium	89-2	1704643	1726211	1718233	1716363	0.64	cps
Zinc	66-2	200580	199141	200897	200206	0.47	cps
Zirconium	90-1	44407	72585	58423	58471	24.10	cps

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LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2745-02	Instrumnet Name :	P7
Client Sample ID :	D1K1-GW-MW-02	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 17:19:40	DataFile Name :	072SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Zirconium	91-1	10229	10738	13158	11375	13.76	cps

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2745-03	Instrumnet Name :	P7
Client Sample ID :	D1K1-GW-MW-10	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 17:23:12	DataFile Name :	073SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	5620	4718	3809	4716	19.20	cps
Antimony	121-1	17795	19406	20866	19356	7.94	cps
Arsenic	75-2	43166	43298	43864	43442	0.85	cps
Barium	135-1	272704	271659	272185	272183	0.19	cps
Barium	137-1	475376	474807	475994	475392	0.12	cps
Beryllium	9-1	161	128	150	146	11.60	cps
Bismuth	209-1	10897260	10884366	11042242	10941289	0.80	cps
Bismuth	209-2	5826262	5863457	5839034	5842918	0.32	cps
Boron	10-1	16551	17069	16551	16724	1.79	cps
Boron	11-1	75690	78763	78923	77792	2.34	cps
Cadmium	106-1	4559	4709	5009	4759	4.82	cps
Cadmium	108-1	375	417	438	410	7.77	cps
Cadmium	111-1	7393	7348	7708	7483	2.62	cps
Calcium	43-1	4407492	4504145	4490797	4467478	1.17	cps
Calcium	44-1	72228456	74093281	73574772	73298836	1.31	cps
Chromium	52-2	2290	2307	2394	2330	2.38	cps
Cobalt	59-2	2720	2664	2720	2701	1.21	cps
Copper	63-2	59594	60826	60528	60316	1.07	cps
Dysprosium	156-2	153	240	237	210	23.38	cps
Dysprosium	156-1	392	475	433	433	9.62	cps
Erbium	164-1	542	433	592	522	15.50	cps
Erbium	164-2	260	257	207	241	12.39	cps
Gadolinium	160-2	237	223	287	249	13.42	cps
Gadolinium	160-1	467	483	508	486	4.31	cps
Holmium	165-1	16711491	16839721	16897384	16816199	0.57	cps
Holmium	165-2	7928255	8119138	7999764	8015719	1.20	cps
Indium	115-2	2414998	2431522	2410780	2419100	0.45	cps
Indium	115-1	13750593	13855832	13836369	13814265	0.41	cps
Iron	56-2	635145	644856	638999	639667	0.76	cps
Iron	57-2	16877	17222	17294	17131	1.30	cps
Lead	206-1	34022	33855	34668	34181	1.26	cps
Lead	207-1	27496	27100	28570	27722	2.74	cps
Lead	208-1	130659	129945	133987	131530	1.64	cps
Lithium	6-1	1488618	1477956	1500926	1489166	0.77	cps
Magnesium	24-2	22342061	22365612	22149689	22285787	0.53	cps
Manganese	55-2	599372	599448	595820	598213	0.35	cps

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LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2745-03	Instrumnet Name :	P7
Client Sample ID :	D1K1-GW-MW-10	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 17:23:12	DataFile Name :	073SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Molybdenum	94-1	14533	14383	15150	14689	2.77	cps
Molybdenum	95-1	20298	21050	21509	20952	2.92	cps
Molybdenum	96-1	23629	22510	23620	23253	2.77	cps
Molybdenum	97-1	13015	13248	13549	13271	2.02	cps
Molybdenum	98-1	33841	32881	33991	33571	1.79	cps
Neodymium	150-1	520	533	433	496	10.96	cps
Neodymium	150-2	190	157	153	167	12.16	cps
Nickel	60-2	4101	4087	4194	4127	1.41	cps
Phosphorus	31-2	475	508	517	500	4.41	cps
Potassium	39-2	269935	267960	267215	268370	0.52	cps
Rhodium	103-1	12103267	12074893	12096945	12091702	0.12	cps
Rhodium	103-2	5609927	5620007	5630394	5620109	0.18	cps
Scandium	45-1	8284128	8383630	8348340	8338699	0.60	cps
Scandium	45-2	362870	364247	359916	362344	0.61	cps
Selenium	82-1	6	79	145	77	91.07	cps
Selenium	77-2	27	40	33	33	20.00	cps
Selenium	78-2	131	119	120	123	5.68	cps
Silicon	28-1	63838585	65636397	64692951	64722645	1.39	cps
Silver	109-1	4909	5051	4701	4887	3.60	cps
Silver	107-1	5193	5109	5460	5254	3.48	cps
Sodium	23-2	13676744	13583113	13498034	13585964	0.66	cps
Strontium	86-1	7962513	7862028	7945678	7923406	0.68	cps
Strontium	88-1	69179322	67469712	68074481	68241172	1.27	cps
Sulfur	34-1	2032092	2037569	2033838	2034500	0.14	cps
Terbium	159-1	16903907	17353059	17397392	17218120	1.59	cps
Terbium	159-2	7936830	7928144	7889496	7918157	0.32	cps
Thallium	203-1	408	333	408	383	11.30	cps
Thallium	205-1	942	1050	808	933	12.97	cps
Tin	118-1	9954	9278	10771	10001	7.47	cps
Titanium	47-1	3125	3342	3401	3289	4.41	cps
Uranium	238-1	184516	181106	182227	182616	0.95	cps
Vanadium	51-2	3527	3674	3427	3543	3.50	cps
Yttrium	89-1	13780333	13784968	13840419	13801907	0.24	cps
Yttrium	89-2	1815152	1833628	1836577	1828452	0.64	cps
Zinc	66-2	11284	11451	11338	11358	0.75	cps
Zirconium	90-1	7828	8194	8394	8139	3.53	cps

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LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2745-03	Instrumnet Name :	P7
Client Sample ID :	D1K1-GW-MW-10	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 17:23:12	DataFile Name :	073SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Zirconium	91-1	1842	1984	2125	1984	7.14	cps

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2585-01DLX20	Instrumnet Name :	P7
Client Sample ID :	22ADL	Dilution Factor :	20
Date & Time Acquired ::	2017-04-18 17:26:41	DataFile Name :	074SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	35685	37506	35777	36323	2.82	cps
Antimony	121-1	2967	2900	2892	2920	1.41	cps
Arsenic	75-2	174	172	154	167	6.76	cps
Barium	135-1	97961	96652	93380	95998	2.46	cps
Barium	137-1	172222	165669	165441	167777	2.30	cps
Beryllium	9-1	178	217	139	178	21.88	cps
Bismuth	209-1	12156144	12013684	12110154	12093327	0.60	cps
Bismuth	209-2	6504320	6461208	6521279	6495602	0.48	cps
Boron	10-1	4426	3967	3692	4028	9.20	cps
Boron	11-1	18662	18345	18704	18570	1.06	cps
Cadmium	106-1	4801	5018	4826	4882	2.43	cps
Cadmium	108-1	17	17	54	29	74.22	cps
Cadmium	111-1	1217	1244	1154	1205	3.84	cps
Calcium	43-1	733226	724962	725614	727934	0.63	cps
Calcium	44-1	12272065	12138611	12073034	12161237	0.83	cps
Chromium	52-2	7359	7229	7072	7220	1.99	cps
Cobalt	59-2	8246	8593	8513	8450	2.15	cps
Copper	63-2	32490	32543	31568	32200	1.70	cps
Dysprosium	156-2	683	610	660	651	5.75	cps
Dysprosium	156-1	1442	1492	1558	1497	3.91	cps
Erbium	164-1	1533	1267	1333	1378	10.07	cps
Erbium	164-2	677	747	610	678	10.08	cps
Gadolinium	160-2	760	930	813	834	10.42	cps
Gadolinium	160-1	1508	1342	1558	1470	7.72	cps
Holmium	165-2	8728732	8714119	8738720	8727191	0.14	cps
Holmium	165-1	18523568	18228221	18208295	18320028	0.96	cps
Indium	115-1	14878049	14930903	14940622	14916525	0.23	cps
Indium	115-2	2604090	2594024	2590046	2596053	0.28	cps
Iron	56-2	3038292	3009880	3023406	3023859	0.47	cps
Iron	57-2	74824	74539	75835	75066	0.91	cps
Lead	206-1	11455	11744	11277	11492	2.05	cps
Lead	207-1	9765	9365	9309	9480	2.62	cps
Lead	208-1	45309	44129	44169	44536	1.50	cps
Lithium	6-1	1590452	1577413	1594041	1587302	0.55	cps
Magnesium	24-2	790150	796806	795976	794311	0.46	cps
Manganese	55-2	527825	523523	529394	526914	0.58	cps

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LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2585-01DLX20	Instrumnet Name :	P7
Client Sample ID :	22ADL	Dilution Factor :	20
Date & Time Acquired ::	2017-04-18 17:26:41	DataFile Name :	074SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Molybdenum	94-1	1467	1600	2059	1709	18.17	cps
Molybdenum	95-1	992	1300	1425	1239	18.00	cps
Molybdenum	96-1	1192	1508	1784	1495	19.81	cps
Molybdenum	97-1	792	725	983	833	16.09	cps
Molybdenum	98-1	1584	1967	2284	1945	18.03	cps
Neodymium	150-1	1927	1847	2080	1951	6.08	cps
Neodymium	150-2	750	697	717	721	3.74	cps
Nickel	60-2	4657	4624	4814	4699	2.16	cps
Phosphorus	31-2	575	650	417	547	21.77	cps
Potassium	39-2	287058	287441	288290	287596	0.22	cps
Rhodium	103-2	6402240	6460772	6334996	6399336	0.98	cps
Rhodium	103-1	13773019	13764321	13560053	13699131	0.88	cps
Scandium	45-1	9346436	9364867	9183481	9298261	1.07	cps
Scandium	45-2	407022	408994	410062	408693	0.38	cps
Selenium	77-2	13	0	3	6	124.93	cps
Selenium	78-2	130	117	111	119	7.98	cps
Selenium	82-1	14	-86	-215	-95	-120.41	cps
Silicon	28-1	7117971	7114095	7174041	7135369	0.47	cps
Silver	109-1	1433	1483	1592	1503	5.39	cps
Silver	107-1	1667	1709	1667	1681	1.43	cps
Sodium	23-2	25579547	25560065	25639001	25592871	0.16	cps
Strontium	86-1	431338	429005	422187	427510	1.11	cps
Strontium	88-1	3708712	3683352	3636867	3676310	0.99	cps
Sulfur	34-1	864992	855565	860307	860288	0.55	cps
Terbium	159-1	18956110	18798330	18895350	18883263	0.42	cps
Terbium	159-2	8570100	8573871	8481101	8541691	0.61	cps
Thallium	203-1	275	250	250	258	5.59	cps
Thallium	205-1	675	658	717	683	4.40	cps
Tin	118-1	2759	3117	2875	2917	6.27	cps
Titanium	47-1	61429	60960	61898	61429	0.76	cps
Uranium	238-1	3784	3726	3601	3703	2.53	cps
Vanadium	51-2	4421	4201	4161	4261	3.29	cps
Yttrium	89-2	2032495	2028558	2031971	2031008	0.11	cps
Yttrium	89-1	15250019	15239988	15231704	15240570	0.06	cps
Zinc	66-2	5578	5341	5468	5462	2.17	cps
Zirconium	90-1	2709	2492	2450	2550	5.44	cps

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LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2585-01DLX20	Instrumnet Name :	P7
Client Sample ID :	22ADL	Dilution Factor :	20
Date & Time Acquired ::	2017-04-18 17:26:41	DataFile Name :	074SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Zirconium	91-1	575	600	517	564	7.58	cps

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On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2585-02DLX20	Instrumnet Name :	P7
Client Sample ID :	14ADL	Dilution Factor :	20
Date & Time Acquired ::	2017-04-18 17:30:11	DataFile Name :	075SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	54901	57053	56526	56160	2.00	cps
Antimony	121-1	1667	1875	1850	1797	6.33	cps
Arsenic	75-2	439	463	480	461	4.45	cps
Barium	135-1	161927	161099	159438	160822	0.79	cps
Barium	137-1	284716	280694	282008	282473	0.73	cps
Beryllium	9-1	178	222	156	185	18.33	cps
Bismuth	209-1	11851010	11824411	11837649	11837690	0.11	cps
Bismuth	209-2	6495163	6466820	6462862	6474948	0.27	cps
Boron	10-1	3192	2984	3200	3125	3.93	cps
Boron	11-1	15408	15250	15208	15289	0.69	cps
Cadmium	106-1	5059	5226	4993	5093	2.36	cps
Cadmium	108-1	38	25	8	24	61.98	cps
Cadmium	111-1	1052	1134	1081	1089	3.84	cps
Calcium	43-1	1149286	1151563	1165956	1155602	0.78	cps
Calcium	44-1	19020800	19087798	19500725	19203108	1.35	cps
Chromium	52-2	8666	9023	9020	8903	2.30	cps
Cobalt	59-2	4424	4327	4121	4291	3.61	cps
Copper	63-2	29503	29276	29440	29406	0.40	cps
Dysprosium	156-2	1650	1597	1613	1620	1.68	cps
Dysprosium	156-1	3951	4117	4543	4204	7.26	cps
Erbium	164-1	2867	2750	2809	2809	2.08	cps
Erbium	164-2	1410	1363	1237	1337	6.71	cps
Gadolinium	160-2	1530	1607	1653	1597	3.90	cps
Gadolinium	160-1	3092	2950	3050	3031	2.40	cps
Holmium	165-2	8678542	8650173	8677989	8668901	0.19	cps
Holmium	165-1	17750321	17954424	18021277	17908674	0.79	cps
Indium	115-1	14612966	14495209	14533269	14547148	0.41	cps
Indium	115-2	2608522	2627683	2599436	2611880	0.55	cps
Iron	56-2	7415195	7334137	7354828	7368053	0.57	cps
Iron	57-2	177274	177287	176688	177083	0.19	cps
Lead	206-1	16611	16411	17356	16793	2.97	cps
Lead	207-1	13919	13874	13685	13826	0.90	cps
Lead	208-1	65471	65956	65542	65656	0.40	cps
Lithium	6-1	1586331	1577801	1576656	1580262	0.33	cps
Magnesium	24-2	971526	966433	961118	966359	0.54	cps
Manganese	55-2	138339	139907	138914	139054	0.57	cps

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LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2585-02DLX20	Instrumnet Name :	P7
Client Sample ID :	14ADL	Dilution Factor :	20
Date & Time Acquired ::	2017-04-18 17:30:11	DataFile Name :	075SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Molybdenum	94-1	3534	3542	3434	3503	1.72	cps
Molybdenum	95-1	1258	1567	1809	1545	17.85	cps
Molybdenum	96-1	2200	2134	2367	2234	5.38	cps
Molybdenum	97-1	808	983	1067	953	13.84	cps
Molybdenum	98-1	2217	2492	3000	2570	15.47	cps
Neodymium	150-1	4421	4801	4928	4717	5.59	cps
Neodymium	150-2	1924	1720	1747	1797	6.16	cps
Nickel	60-2	2717	2707	2654	2693	1.26	cps
Phosphorus	31-2	533	517	600	550	8.02	cps
Potassium	39-2	453748	452706	456804	454419	0.47	cps
Rhodium	103-2	6475967	6477628	6446947	6466847	0.27	cps
Rhodium	103-1	13243549	13495742	13560189	13433160	1.25	cps
Scandium	45-1	9062099	9243726	9214569	9173465	1.06	cps
Scandium	45-2	411229	413237	412233	412233	0.24	cps
Selenium	77-2	7	7	13	9	43.25	cps
Selenium	78-2	109	113	104	109	4.29	cps
Selenium	82-1	116	334	-16	145	121.91	cps
Silicon	28-1	7831841	7759316	7914162	7835106	0.99	cps
Silver	109-1	1250	1383	1275	1303	5.44	cps
Silver	107-1	1392	1383	1634	1470	9.66	cps
Sodium	23-2	16291860	16261809	16091495	16215055	0.67	cps
Strontium	86-1	914652	913169	912618	913480	0.12	cps
Strontium	88-1	8071256	8104301	7930166	8035241	1.15	cps
Sulfur	34-1	871694	876551	877022	875089	0.34	cps
Terbium	159-1	18485133	18379457	18661580	18508723	0.77	cps
Terbium	159-2	8604926	8505569	8578868	8563121	0.60	cps
Thallium	203-1	200	158	275	211	28.01	cps
Thallium	205-1	475	425	492	464	7.48	cps
Tin	118-1	3059	3092	2684	2945	7.70	cps
Titanium	47-1	39830	39980	39997	39936	0.23	cps
Uranium	238-1	5910	6510	5902	6107	5.71	cps
Vanadium	51-2	7352	7522	7335	7403	1.40	cps
Yttrium	89-2	2046980	2048791	2038901	2044891	0.26	cps
Yttrium	89-1	15052081	15096018	14986355	15044818	0.37	cps
Zinc	66-2	3580	3370	3787	3579	5.82	cps
Zirconium	90-1	6710	7069	6652	6810	3.32	cps

Reviewed By:jaswal
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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2585-02DLX20	Instrumnet Name :	P7
Client Sample ID :	14ADL	Dilution Factor :	20
Date & Time Acquired ::	2017-04-18 17:30:11	DataFile Name :	075SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Zirconium	91-1	1450	1450	1442	1447	0.33	cps

Reviewed By:jaswal
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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2585-03DLX20	Instrumnet Name :	P7
Client Sample ID :	1ADL	Dilution Factor :	20
Date & Time Acquired ::	2017-04-18 17:33:40	DataFile Name :	076SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	42864	45626	45367	44619	3.42	cps
Antimony	121-1	2517	2550	2659	2575	2.88	cps
Arsenic	75-2	344	335	324	335	3.05	cps
Barium	135-1	18112	18922	19164	18733	2.94	cps
Barium	137-1	32054	32038	32038	32043	0.03	cps
Beryllium	9-1	222	200	122	181	28.93	cps
Bismuth	209-1	12017043	11951479	11899547	11956023	0.49	cps
Bismuth	209-2	6517705	6536642	6498819	6517722	0.29	cps
Boron	10-1	2150	2367	2017	2178	8.11	cps
Boron	11-1	10362	10237	10170	10257	0.95	cps
Cadmium	106-1	5301	5376	5343	5340	0.70	cps
Cadmium	108-1	21	38	46	35	36.66	cps
Cadmium	111-1	1123	1161	1133	1139	1.75	cps
Calcium	43-1	207008	209870	207605	208161	0.73	cps
Calcium	44-1	3436591	3419323	3411255	3422390	0.38	cps
Chromium	52-2	12592	12375	12082	12350	2.07	cps
Cobalt	59-2	2777	2800	2914	2830	2.58	cps
Copper	63-2	35329	35232	35623	35395	0.58	cps
Dysprosium	156-2	853	740	863	819	8.37	cps
Dysprosium	156-1	1809	1925	1725	1820	5.52	cps
Erbium	164-1	1667	1850	1625	1714	6.98	cps
Erbium	164-2	870	813	883	856	4.34	cps
Gadolinium	160-2	1040	917	1010	989	6.50	cps
Gadolinium	160-1	2050	1859	1550	1820	13.86	cps
Holmium	165-2	8608912	8645687	8626663	8627087	0.21	cps
Holmium	165-1	17637914	18105238	18054789	17932647	1.43	cps
Indium	115-1	14933136	14758211	14698356	14796567	0.82	cps
Indium	115-2	2609218	2618119	2611090	2612809	0.18	cps
Iron	56-2	10781441	10797800	10753045	10777429	0.21	cps
Iron	57-2	260075	260645	257415	259378	0.66	cps
Lead	206-1	48020	47970	47925	47972	0.10	cps
Lead	207-1	40746	40891	40378	40672	0.65	cps
Lead	208-1	188197	189048	188328	188524	0.24	cps
Lithium	6-1	1579291	1613962	1579524	1590926	1.25	cps
Magnesium	24-2	184370	184827	183088	184095	0.49	cps
Manganese	55-2	91103	93105	90798	91669	1.37	cps

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2585-03DLX20	Instrumnet Name :	P7
Client Sample ID :	1ADL	Dilution Factor :	20
Date & Time Acquired ::	2017-04-18 17:33:40	DataFile Name :	076SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Molybdenum	94-1	8145	7736	8144	8008	2.95	cps
Molybdenum	95-1	10054	8987	9687	9576	5.66	cps
Molybdenum	96-1	10546	10654	10855	10685	1.47	cps
Molybdenum	97-1	5885	6235	6193	6104	3.13	cps
Molybdenum	98-1	15884	15209	15351	15481	2.30	cps
Neodymium	150-1	2875	2347	2407	2543	11.37	cps
Neodymium	150-2	917	863	877	886	3.13	cps
Nickel	60-2	2447	2477	2627	2517	3.83	cps
Phosphorus	31-2	775	692	858	775	10.75	cps
Potassium	39-2	207826	208384	209417	208542	0.39	cps
Rhodium	103-2	6548901	6506847	6479713	6511820	0.54	cps
Rhodium	103-1	13445878	13689874	13717249	13617667	1.10	cps
Scandium	45-1	9232606	9266726	9212923	9237418	0.29	cps
Scandium	45-2	412556	412588	411621	412255	0.13	cps
Selenium	77-2	0	10	7	6	91.64	cps
Selenium	78-2	119	104	124	115	9.12	cps
Selenium	82-1	23	-63	146	36	294.63	cps
Silicon	28-1	6034916	5944837	5833892	5937882	1.70	cps
Silver	109-1	983	1150	1258	1131	12.25	cps
Silver	107-1	1433	1217	1458	1370	9.70	cps
Sodium	23-2	6728448	6742308	6752812	6741189	0.18	cps
Strontium	86-1	284289	282392	279386	282022	0.88	cps
Strontium	88-1	2398669	2381834	2383059	2387854	0.39	cps
Sulfur	34-1	857525	847824	849786	851712	0.60	cps
Terbium	159-1	18429792	18375236	18551683	18452237	0.49	cps
Terbium	159-2	8484284	8653008	8461381	8532891	1.23	cps
Thallium	203-1	250	183	175	203	20.27	cps
Thallium	205-1	450	475	475	467	3.09	cps
Tin	118-1	3842	4376	3926	4048	7.09	cps
Titanium	47-1	28455	27577	28982	28338	2.51	cps
Uranium	238-1	5543	5018	4993	5185	5.99	cps
Vanadium	51-2	15191	14854	15712	15253	2.83	cps
Yttrium	89-2	2044836	2036540	2041877	2041085	0.21	cps
Yttrium	89-1	15257991	15014173	15101853	15124672	0.82	cps
Zinc	66-2	6505	6121	6498	6375	3.44	cps
Zirconium	90-1	7544	6894	7561	7333	5.19	cps

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LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	I2585-03DLX20	Instrumnet Name :	P7
Client Sample ID :	1ADL	Dilution Factor :	20
Date & Time Acquired ::	2017-04-18 17:33:40	DataFile Name :	076SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Zirconium	91-1	1642	2942	1483	2022	39.56	cps

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	CCV69	Instrumnet Name :	P7
Client Sample ID :	CCV69	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 17:37:07	DataFile Name :	077CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1398486	1426692	1427400	1417526	1.16	cps
Antimony	121-1	8129736	8167362	8042567	8113221	0.79	cps
Arsenic	75-2	299100	305343	303794	302746	1.07	cps
Barium	135-1	9716633	9716980	9627772	9687128	0.53	cps
Barium	137-1	16799033	16946413	16774514	16839987	0.55	cps
Beryllium	9-1	1365803	1376281	1373433	1371839	0.39	cps
Bismuth	209-1	11128906	11303908	11280065	11237626	0.84	cps
Bismuth	209-2	6163250	6293507	6290982	6249246	1.19	cps
Boron	10-1	192004	197744	196721	195490	1.57	cps
Boron	11-1	915044	946568	953668	938427	2.19	cps
Cadmium	106-1	235608	235994	241592	237731	1.41	cps
Cadmium	108-1	155374	154089	156339	155267	0.73	cps
Cadmium	111-1	1986253	2000077	1984096	1990142	0.44	cps
Calcium	43-1	2355314	2345569	2337952	2346279	0.37	cps
Calcium	44-1	38955946	38683160	39146834	38928647	0.60	cps
Chromium	52-2	2638412	2685537	2672665	2665538	0.91	cps
Cobalt	59-2	4282891	4358821	4346300	4329337	0.94	cps
Copper	63-2	6383575	6459629	6428498	6423901	0.60	cps
Dysprosium	156-2	50	50	40	47	12.37	cps
Dysprosium	156-1	167	125	183	158	18.97	cps
Erbium	164-1	83	100	83	89	10.82	cps
Erbium	164-2	37	57	33	42	29.89	cps
Gadolinium	160-2	80	73	87	80	8.34	cps
Gadolinium	160-1	183	142	133	153	17.53	cps
Holmium	165-2	8426608	8428766	8492925	8449433	0.45	cps
Holmium	165-1	17443375	17527474	17514364	17495071	0.26	cps
Indium	115-1	14042884	14117724	14236022	14132210	0.69	cps
Indium	115-2	2495437	2557169	2557836	2536814	1.41	cps
Iron	56-2	109830827	110383058	110812316	110342067	0.45	cps
Iron	57-2	2636243	2673905	2677674	2662608	0.86	cps
Lead	206-1	6205656	6218687	6198008	6207450	0.17	cps
Lead	207-1	5603290	5644089	5616602	5621327	0.37	cps
Lead	208-1	25591880	25656617	25606243	25618247	0.13	cps
Lithium	6-1	1522522	1516642	1512690	1517285	0.33	cps
Magnesium	24-2	18707443	19094964	18960222	18920877	1.04	cps
Manganese	55-2	2814586	2881554	2870244	2855462	1.26	cps

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	CCV69	Instrumnet Name :	P7
Client Sample ID :	CCV69	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 17:37:07	DataFile Name :	077CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Molybdenum	94-1	7439869	7423024	7453328	7438740	0.20	cps
Molybdenum	95-1	3917088	3926600	3912162	3918617	0.19	cps
Molybdenum	96-1	5080416	5095140	5078721	5084759	0.18	cps
Molybdenum	97-1	2429663	2455829	2436281	2440591	0.56	cps
Molybdenum	98-1	6485841	6485989	6497609	6489813	0.10	cps
Neodymium	150-1	733	607	487	609	20.26	cps
Neodymium	150-2	60	40	80	60	33.33	cps
Nickel	60-2	1141416	1157417	1159077	1152637	0.85	cps
Phosphorus	31-2	85134	87247	87171	86517	1.39	cps
Potassium	39-2	9423682	9589344	9503452	9505493	0.87	cps
Rhodium	103-2	6111139	6110254	6123992	6115128	0.13	cps
Rhodium	103-1	12989064	12800005	12802265	12863778	0.84	cps
Scandium	45-1	8982648	8890715	8956774	8943379	0.53	cps
Scandium	45-2	405655	413691	416192	411846	1.34	cps
Selenium	77-2	6055	6171	5928	6051	2.01	cps
Selenium	78-2	19326	20485	20027	19946	2.93	cps
Selenium	82-1	130019	129655	130090	129922	0.18	cps
Silicon	28-1	4711294	4771497	4774420	4752404	0.75	cps
Silver	109-1	10010986	10036447	9989281	10012238	0.24	cps
Silver	107-1	10408048	10318266	10428489	10384934	0.56	cps
Sodium	23-2	37492272	37934000	37628580	37684950	0.60	cps
Strontium	86-1	2965494	2947154	2970335	2960994	0.41	cps
Strontium	88-1	26202681	25859107	26131590	26064459	0.70	cps
Sulfur	34-1	1601461	1601521	1588678	1597220	0.46	cps
Terbium	159-1	17804126	17732044	17951615	17829262	0.63	cps
Terbium	159-2	8291526	8483501	8359574	8378200	1.16	cps
Thallium	203-1	8067889	8074021	8101497	8081136	0.22	cps
Thallium	205-1	18766749	18842798	19119639	18909729	0.98	cps
Tin	118-1	6764259	6734032	6757727	6752006	0.24	cps
Titanium	47-1	1173175	1160941	1168256	1167457	0.53	cps
Uranium	238-1	25774263	25823225	26011706	25869731	0.48	cps
Vanadium	51-2	2133700	2174008	2159673	2155794	0.95	cps
Yttrium	89-2	1987365	2023067	2010918	2007117	0.90	cps
Yttrium	89-1	14550561	14585131	14480337	14538677	0.37	cps
Zinc	66-2	879579	888663	892389	886877	0.74	cps
Zirconium	90-1	14274805	14195469	14250915	14240396	0.29	cps

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	CCV69	Instrumnet Name :	P7
Client Sample ID :	CCV69	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 17:37:07	DataFile Name :	077CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Zirconium	91-1	3084761	3077027	3088155	3083314	0.18	cps

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	CCB69	Instrumnet Name :	P7
Client Sample ID :	CCB69	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 17:49:28	DataFile Name :	078CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	58	42	58	53	18.23	cps
Antimony	121-1	9912	13657	18521	14030	30.77	cps
Arsenic	75-2	54	44	94	64	41.44	cps
Barium	135-1	92	50	100	81	33.26	cps
Barium	137-1	142	167	125	144	14.52	cps
Beryllium	9-1	94	89	78	87	9.75	cps
Bismuth	209-1	11888351	11734498	11838387	11820412	0.66	cps
Bismuth	209-2	6522366	6526259	6513801	6520809	0.10	cps
Boron	10-1	1325	1308	1333	1322	0.96	cps
Boron	11-1	6410	5785	5935	6043	5.40	cps
Cadmium	106-1	4459	4834	5135	4809	7.04	cps
Cadmium	108-1	13	17	29	19	44.61	cps
Cadmium	111-1	897	978	1051	975	7.91	cps
Calcium	43-1	592	533	400	508	19.33	cps
Calcium	44-1	24338	24588	23185	24037	3.11	cps
Chromium	52-2	777	920	747	814	11.37	cps
Cobalt	59-2	90	113	83	96	16.49	cps
Copper	63-2	10807	10717	10644	10723	0.76	cps
Dysprosium	156-2	0	7	3	3	100.05	cps
Dysprosium	156-1	0	17	17	11	86.60	cps
Erbium	164-1	67	42	50	53	24.12	cps
Erbium	164-2	20	20	23	21	9.11	cps
Gadolinium	160-2	47	80	40	56	38.57	cps
Gadolinium	160-1	108	100	92	100	8.33	cps
Holmium	165-2	8604686	8555252	8580058	8579999	0.29	cps
Holmium	165-1	17559622	17524293	17657499	17580471	0.39	cps
Indium	115-1	14536964	14540735	14481597	14519765	0.23	cps
Indium	115-2	2619575	2612643	2626950	2619723	0.27	cps
Iron	56-2	7969	7691	7652	7771	2.22	cps
Iron	57-2	156	194	256	202	24.98	cps
Lead	206-1	1961	2139	1906	2002	6.09	cps
Lead	207-1	1728	1889	1711	1776	5.53	cps
Lead	208-1	8135	8034	7807	7992	2.10	cps
Lithium	6-1	1516974	1515700	1521402	1518025	0.20	cps
Magnesium	24-2	250	192	242	228	13.85	cps
Manganese	55-2	150	123	133	136	9.94	cps

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Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	CCB69	Instrumnet Name :	P7
Client Sample ID :	CCB69	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 17:49:28	DataFile Name :	078CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Molybdenum	94-1	1075	1158	1542	1258	19.78	cps
Molybdenum	95-1	992	1325	1725	1347	27.26	cps
Molybdenum	96-1	1292	1592	2075	1653	23.91	cps
Molybdenum	97-1	658	775	1183	872	31.61	cps
Molybdenum	98-1	1592	2275	2734	2200	26.12	cps
Neodymium	150-1	13	7	13	11	34.61	cps
Neodymium	150-2	0	0	0	0	0.00	cps
Nickel	60-2	280	347	327	318	10.77	cps
Phosphorus	31-2	367	367	333	356	5.41	cps
Potassium	39-2	53004	53397	53447	53283	0.46	cps
Rhodium	103-2	6486723	6474365	6427162	6462750	0.49	cps
Rhodium	103-1	13473003	13292746	13682374	13482708	1.45	cps
Scandium	45-1	9096436	9009040	9059300	9054925	0.48	cps
Scandium	45-2	419316	416345	417101	417587	0.37	cps
Selenium	77-2	3	0	3	2	86.60	cps
Selenium	78-2	115	143	148	135	13.21	cps
Selenium	82-1	108	41	3	50	105.57	cps
Silicon	28-1	497859	496835	494696	496463	0.33	cps
Silver	109-1	383	500	408	431	14.27	cps
Silver	107-1	483	475	508	489	3.55	cps
Sodium	23-2	31342	30632	30833	30936	1.18	cps
Strontium	86-1	7394	7119	7102	7205	2.28	cps
Strontium	88-1	783	808	825	806	2.60	cps
Sulfur	34-1	769519	764220	762895	765545	0.46	cps
Terbium	159-1	17970708	18061636	17944090	17992145	0.34	cps
Terbium	159-2	8456949	8435952	8544567	8479156	0.68	cps
Thallium	203-1	242	233	183	219	14.38	cps
Thallium	205-1	650	692	458	600	20.74	cps
Tin	118-1	1033	1358	1425	1272	16.47	cps
Titanium	47-1	200	150	142	164	19.25	cps
Uranium	238-1	167	142	142	150	9.63	cps
Vanadium	51-2	43	23	33	33	30.00	cps
Yttrium	89-2	2056470	2055319	2057640	2056476	0.06	cps
Yttrium	89-1	14768785	14748558	14687321	14734888	0.29	cps
Zinc	66-2	243	223	330	266	21.35	cps
Zirconium	90-1	1175	1208	1300	1228	5.27	cps

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On:4/19/2017 10:14:26 AM
Inst Id :P7
LB :LB86956

LB Number :	LB86956	Operator :	Jaswal
Lab Sample ID :	CCB69	Instrumnet Name :	P7
Client Sample ID :	CCB69	Dilution Factor :	1
Date & Time Acquired ::	2017-04-18 17:49:28	DataFile Name :	078CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Zirconium	91-1	258	200	317	258	22.58	cps

SOP ID:- M6020/6020A Metal ICP-MS-20

CHEMTECH

Water Sample Preparation Sheet

I 2585, I 2700, I 2745

PB98296

PrepBatch ID : PB98296

SDG No :

Matrix : Water

Method : M6020/M6020A

Initial Volume : 50 ML

Final Volume : 50 ML

Hot Plate Temp : 1. 95°C 2. 3.

Batch# PB98296

ICP Digest Date: 04/18/17 **Time :** 12:00

Sample Received By :

Dig Technician Signature: PB

Supervisor Signature:

Prep Code: CWI PB 04/18/17

End time for Hot Block 14:00

Standared Name	MLS USED	STD REF. # FROM LOG
LCSW	0.50ml	MP 39020
LCSW	1.00ml	MP 39021
LCSW	0.25ml of each	M 3630, M 3482, M 3481,
		PB 04/18/17

Chemical Used	ML/SAMPLE USED	Lot Number
CONC: HNO3	3.00ml	M 3847
1:1 HCL	5.00ml	MP 39064
PH STRIPS BOX-0.2.5	—	M 3819
		PB 04/18/17

Date / Time	Received By	Relinquished By	Location
04/18/17 14:30 PB 04/18/17		PB	ICP/MS
	Analysis Group	**Digestion Group**	
	JS		

CHEMTECH **Water Sample Preparation Sheet** **PrepBatch ID :** **PB98296**

Lab Sample ID	Customer Sample Number	Color Before	Color After	Clarity Before	Clarity After	PH	Comments	Prep Pos
I2585-01	22A	BR	C	cd	cl	AL	C	
I2585-02	14A	BR	C	cd	cl	AL	C	
I2585-03	1A	BR	C	cd	cl	AL	C	
I2700-01	S8-0651	C	C	cl	cl	AL	D	
I2700-02	S8-0652	C	C	cl	cl	AL	D	
I2700-05	S8-0658	C	C	cl	cl	AL	D	
I2700-06	S8-EB-2017-1	C	C	cl	cl	AL	D	
I2700-10	S8-0656	C	C	cl	cl	AL	D	
I2700-10DUP	S8-0656DUP	C	C	cl	cl	AL	D	
I2700-11	I2700-10MS	C	C	cl	cl	AL	MP39020, MP39021	
I2700-12	I2700-10MSD	C	C	cl	cl	AL	M3630, M3452, M3481	
I2745-01	D1K1-GW-MW-01	C	C	cl	cl	AL	—	
I2745-02	D1K1-GW-MW-02	C	C	cl	cl	AL	—	
I2745-03	D1K1-GW-MW-10	C	C	cl	cl	AL	—	
PB98296BL	PBW01	C	C	cl	cl	AL	—	
PB98296BS	LCS01	C	C	cl	cl	AL	MP39020, MP39021 M3630, M3452, M3481	

PB 04/18/17

* BL=Blank BS=Blank Spike TB=TCLP Blank
* COLOR: R=Red BU=Blue Y=Yellow GR=Green O=Orange V=Violet W=White C=Colorless BR=Brown GY=Grey BL=Black

CHEMTECH **Water Sample Preparation Sheet** **PrepBatch ID :** **PB98296**

Lab Sample	Customer Sample Number	Color Before	Color After	Clarity Before	Clarity After	PH	Comments	Prep Pos
I2585-01	22A	Brown	Colorless	Cloudy	Clear	<2		
I2585-02	14A	Brown	Colorless	Cloudy	Clear	<2		
I2585-03	1A	Brown	Colorless	Cloudy	Clear	<2		
I2700-01	S8-0651	Colorless	Colorless	Clear	Clear	<2		
I2700-02	S8-0652	Colorless	Colorless	Clear	Clear	<2		
I2700-05	S8-0658	Colorless	Colorless	Clear	Clear	<2		
I2700-06	S8-EB-2017-1	Colorless	Colorless	Clear	Clear	<2		
I2700-10	S8-0656	Colorless	Colorless	Clear	Clear	<2		
I2700-10DUP	S8-0656DUP	Colorless	Colorless	Clear	Clear	<2		
I2700-11	I2700-10MS	Colorless	Colorless	Clear	Clear	<2		
I2700-12	I2700-10MSD	Colorless	Colorless	Clear	Clear	<2		
I2745-01	D1K1-GW-MW-01	Colorless	Colorless	Clear	Clear	<2		
I2745-02	D1K1-GW-MW-02	Colorless	Colorless	Clear	Clear	<2		
I2745-03	D1K1-GW-MW-10	Colorless	Colorless	Clear	Clear	<2		
PB98296BL	PBW01	Colorless	Colorless	Clear	Clear	<2		
PB98296BS	LCS01	Colorless	Colorless	Clear	Clear	<2		

PB 04/14/17

* BL=Blank BS=Blank Spike TB=TCLP Blank
* COLOR: R=Red BU=Blue Y=Yellow GR=Green O=Orange V=Violet W=White C=Colorless BR=Brown GY=Grey BL=Black

WORKLIST(Hardcopy Internal Chain)

WorkList Name : i2585w6020 WorkList ID : 97508 Date : 4/18/2017 8:24:43 AM

Due Date	Matrix	Sample	Test	Preservative	Customer	Storage Location	Customer Sample	Collect Date	Method
	Water	I2585-01	Metals ICP-TAL	1:1 HNO3 to p	AQUI01	N32	22A	04/05/2017	6020
	Water	I2585-02	Metals ICP-TAL	1:1 HNO3 to p	AQUI01	N32	14A	04/05/2017	6020
	Water	I2585-03	Metals ICP-TAL	1:1 HNO3 to p	AQUI01	N32	1A	04/05/2017	6020
	Water	I2700-01	Metals Group4	1:1 HNO3 to p	SHAW27	P21	S8-0651	04/12/2017	6020
	Water	I2700-02	Metals Group4	1:1 HNO3 to p	SHAW27	P21	S8-0652	04/12/2017	6020
	Water	I2700-05	Metals Group4	1:1 HNO3 to p	SHAW27	P21	S8-0658	04/12/2017	6020
	Water	I2700-06	Metals Group4	1:1 HNO3 to p	SHAW27	P21	S8-EB-2017-1	04/12/2017	6020
	Water	I2700-10	Metals Group4	1:1 HNO3 to p	SHAW27	P21	S8-0656	04/13/2017	6020
	Water	I2700-11	Metals Group4	1:1 HNO3 to p	SHAW27	P21	I2700-10MS	04/13/2017	6020
	Water	I2700-12	Metals Group4	1:1 HNO3 to p	SHAW27	P21	I2700-10MSD	04/13/2017	6020
	Water	I2745-01	Metals Group4	1:1 HNO3 to p	LIRO01	P61	D1K1-GW-MW-01	04/17/2017	6020
	Water	I2745-02	Metals Group4	1:1 HNO3 to p	LIRO01	P61	D1K1-GW-MW-02	04/17/2017	6020
	Water	I2745-03	Metals Group4	1:1 HNO3 to p	LIRO01	P61	D1K1-GW-MW-10	04/17/2017	6020

Date/Time 04/18/17 11:45
Received by: BB
Relinquished by: JR

Date/Time 04/18/17
Received by: JR
Relinquished by: PB

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Instrument ID: P7

Daily Analysis Runlog For Sequence/QCBatch ID # LB86956

Review By jaswal Review On 4/19/2017 10:14:26 AM

STD. NAME	STD REF.#
ICAL Standard	MP38998,MP38999,MP39000,MP39001,MP39002,MP39003,MP39004,MP39007,MP39008
ICV Standard	MP39011
CCV Standard	MP39012
ICSA Standard	MP39013,MP39014
CRI Standard	
Chk Standard	MP39016,MP39018

Sr#	SampleId	ClientID	QcType	Date	Comment	Status
1	TUNE	TUNE	TUNE	04/18/17 12:14		OK
2	S0	S0	CAL1	04/18/17 12:23		OK
3	S2	S2	CAL3	04/18/17 12:30		OK
4	S3	S3	CAL4	04/18/17 12:34		OK
5	S4	S4	CAL5	04/18/17 12:38		OK
6	S5	S5	CAL6	04/18/17 12:42		OK
7	S6	S6	CAL7	04/18/17 12:45		OK
8	S7	S7	CAL8	04/18/17 12:49		OK
9	S8	S8	CAL9	04/18/17 12:52		OK
10	ICV01	ICV01	ICV	04/18/17 12:56		OK
11	ICB01	ICB01	ICB	04/18/17 13:02		OK
12	ICSA01	ICSA01	ICSA	04/18/17 13:06		OK
13	ICSAB01	ICSAB01	ICSAB	04/18/17 13:09		OK
14	CCV63	CCV63	CCV	04/18/17 13:12		OK
15	CCB63	CCB63	CCB	04/18/17 13:19		OK
16	CRI	CRI	CRDL	04/18/17 13:23		OK
17	PB98150BL	PB98150BL	MB	04/18/17 13:26	Not Used	Not Ok
18	PB98150BS	PB98150BS	LCS	04/18/17 13:30	Not Used	Not Ok
19	I2578-01	MH0AT5	SAM	04/18/17 13:33	Not Used	Not Ok
20	I2578-02	MH0AT6	SAM	04/18/17 13:37	Not Used	Not Ok
21	I2578-03	MH0AT6D	SAM	04/18/17 13:40	Not Used	Not Ok

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Instrument ID: P7

Daily Analysis Runlog For Sequence/QCBatch ID # LB86956

Review By	jaswal	Review On	4/19/2017 10:14:26 AM

STD. NAME	STD REF.#
ICAL Standard	MP38998,MP38999,MP39000,MP39001,MP39002,MP39003,MP39004,MP39007,MP39008
ICV Standard	MP39011
CCV Standard	MP39012
ICSA Standard	MP39013,MP39014
CRI Standard	
Chk Standard	MP39016,MP39018

22	I2578-02L	MH0AT6L	SD	04/18/17 13:44	Not Used	Not Ok
23	I2578-04	MH0AT6S	MS	04/18/17 13:47	Not Used	Not Ok
24	I2578-02A	MH0AT6A	PS	04/18/17 13:51	Not Used	Not Ok
25	PB98150BSRE	PB98150BSRE	LCS	04/18/17 13:59	Not Used	Not Ok
26	CCV64	CCV64	CCV	04/18/17 14:03		OK
27	CCB64	CCB64	CCB	04/18/17 14:11		OK
28	PB98211BL	PB98211BL	MB	04/18/17 14:15		OK
29	I2562-03	0206	SAM	04/18/17 14:18		OK
30	I2562-04	0232	SAM	04/18/17 14:22		OK
31	PB98211BS	PB98211BS	LCS	04/18/17 14:25		OK
32	CCV65	CCV65	CCV	04/18/17 14:29		OK
33	CCB65	CCB65	CCB	04/18/17 14:50		OK
34	PB98303BL	PB98303BL	MB	04/18/17 14:53		OK
35	PB98303BS	PB98303BS	LCS	04/18/17 14:57		OK
36	I2675-01	ROOM-109-KITCHEN	SAM	04/18/17 15:00		OK
37	I2675-02	ROOM-109-KITCHEN	SAM	04/18/17 15:04		OK
38	PB98296BL	PB98296BL	MB	04/18/17 15:07		OK
39	PB98296BS	PB98296BS	LCS	04/18/17 15:11		OK
40	I2585-01	22A	SAM	04/18/17 15:17		OK
41	I2585-02	14A	SAM	04/18/17 15:20		OK
42	I2585-03	1A	SAM	04/18/17 15:24		OK
43	I2700-01	S8-0651	SAM	04/18/17 15:27		OK
44	CCV66	CCV66	CCV	04/18/17 15:31		OK

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Instrument ID: P7

Daily Analysis Runlog For Sequence/QCBatch ID # LB86956

Review By	jaswal	Review On	4/19/2017 10:14:26 AM

STD. NAME	STD REF.#
ICAL Standard	MP38998,MP38999,MP39000,MP39001,MP39002,MP39003,MP39004,MP39007,MP39008
ICV Standard	MP39011
CCV Standard	MP39012
ICSA Standard	MP39013,MP39014
CRI Standard	
Chk Standard	MP39016,MP39018

45	CCB66	CCB66	CCB	04/18/17 15:39		OK
46	I2700-02	S8-0652	SAM	04/18/17 15:43		OK
47	I2700-02DL	S8-0652DL	SAM	04/18/17 15:46	Not Required	Not Ok
48	I2700-05	S8-0658	SAM	04/18/17 15:50		OK
49	I2700-05DL	S8-0658DL	SAM	04/18/17 15:53	Not Required	Not Ok
50	I2700-06	S8-EB-2017-1	SAM	04/18/17 15:57		OK
51	I2700-06DL	S8-EB-2017-1DL	SAM	04/18/17 16:00	Not Required	Not Ok
52	I2700-10	S8-0656	SAM	04/18/17 16:04		OK
53	I2700-10DL	S8-0656DL	SAM	04/18/17 16:07	Not Required	Not Ok
54	I2700-10DUP	S8-0656DUP	DUP	04/18/17 16:11		OK
55	I2700-10DUPDL	S8-0656DUPDL	DUP	04/18/17 16:14	Not Required	Not Ok
56	CCV67	CCV67	CCV	04/18/17 16:18		OK
57	CCB67	CCB67	CCB	04/18/17 16:30		OK
58	I2700-01DL	S8-0651DL	SAM	04/18/17 16:33	Not Required	Not Ok
59	I2700-11	S8-0656MS	MS	04/18/17 16:37	Mn High	Dilution
60	I2700-11DL	S8-0656MSDL	MS	04/18/17 16:40	20X for Mn	Confirms
61	I2700-12	S8-0656MSD	MSD	04/18/17 16:44	Mn High	Dilution
62	I2700-12DL	S8-0656MSDDL	MSD	04/18/17 16:47	20X for Mn	Confirms
63	I2700-10A	S8-0656A	PS	04/18/17 16:51	PS for Cu, Fe, Ag	Dilution
64	I2700-10ADL	S8-0656ADL	PS	04/18/17 16:54	PS for Mn	Confirms
65	I2700-10L	S8-0656L	SD	04/18/17 16:58		OK
66	I2700-10LDL	S8-0656LDL	SD	04/18/17 17:01	Not Required	Not Ok
67	I2745-01	D1K1-GW-MW-01	SAM	04/18/17 17:05		OK

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Instrument ID: P7

Daily Analysis Runlog For Sequence/QCBatch ID # LB86956

Review By	jaswal	Review On	4/19/2017 10:14:26 AM

STD. NAME	STD REF.#
ICAL Standard	MP38998,MP38999,MP39000,MP39001,MP39002,MP39003,MP39004,MP39007,MP39008
ICV Standard	MP39011
CCV Standard	MP39012
ICSA Standard	MP39013,MP39014
CRI Standard	
Chk Standard	MP39016,MP39018

68	CCV68	CCV68	CCV	04/18/17 17:08		OK
69	CCB68	CCB68	CCB	04/18/17 17:16		OK
70	I2745-02	D1K1-GW-MW-02	SAM	04/18/17 17:19		OK
71	I2745-03	D1K1-GW-MW-10	SAM	04/18/17 17:23		OK
72	I2585-01DL	22ADL	SAM	04/18/17 17:26	Not Required	Not Ok
73	I2585-02DL	14ADL	SAM	04/18/17 17:30	Not Required	Not Ok
74	I2585-03DL	1ADL	SAM	04/18/17 17:33	Not Required	Not Ok
75	CCV69	CCV69	CCV	04/18/17 17:37		OK
76	CCB69	CCB69	CCB	04/18/17 17:49		OK

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Prep Standard - Chemical Standard Summary

Order ID : I2745

Test : Metals Group4

Prepbatch ID : PB98296,

Sequence ID/Qc Batch ID: LB86956,LB86956,

Standard ID :
MP38998,MP38999,MP39000,MP39001,MP39002,MP39003,MP39004,MP39006,MP39007,MP39008,MP39010,MP39011,
MP39012,MP39013,MP39014,MP39016,MP39017,MP39018,MP39020,MP39021M3630,

Chemical ID :
M3298,M3304,M3305,M3306,M3316,M3321,M3323,M3325,M3327,M3328,M3333,M3468,M3470,M3471,M3481,M3482,M3498,M3533,M3535,M3541,M3591,M3602,M3612,M3626,M3630,M3668,M3671,M3672,M3680,M3683,M3745,M3758,M3759,M3760,M3783,M3785,M3787,M3792,M3812,M3813,M3814,M3819,M3832,M3843,M3844,m3847,mp39020,mp39021,mp39064,W1152,

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STANDARD PREPARATION LOG

RecipeID	NAME	NO.	Prep Date	Expiration D	Prepared By
1122	ICPMS CALIB BLANK(S0/ICB/CCB)	MP38998	04/03/2017	04/19/2017	jaswal

FROM 12.500ml of M3843 + 2462.500ml of W1152 + 25.000ml of M3844 = Final Quantity: 2500.000 ml

RecipeID	NAME	NO.	Prep Date	Expiration D	Prepared By
2902	S8 ICPMS	MP38999	04/03/2017	04/19/2017	jaswal

FROM 1.000ml of M3602 + 2.500ml of M3626 + 2.500ml of M3783 + 5.000ml of M3630 + 5.000ml of M3671 + 5.000ml of M3672 + 79.000ml of MP38998 = Final Quantity: 100.000 ml

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STANDARD PREPARATION LOG

RecipeID	NAME	NO.	Prep Date	Expiration D	Prepared By
3349	S7 ICPMS	MP39000	04/03/2017	04/19/2017	jaswal

FROM 0.500ml of M3298 + 0.500ml of M3304 + 0.500ml of M3333 + 0.500ml of M3468 + 0.500ml of M3470 + 0.500ml of M3535 + 0.500ml of M3668 + 0.500ml of M3759 + 0.950ml of M3602 + 1.000ml of M3760 + 1.000ml of M3792 + 2.000ml of M3785 + 2.450ml of M3626 + 2.450ml of M3783 + 2.500ml of M3843 + 25.000ml of M3591 + 4.950ml of M3630 + 4.950ml of M3671 + 4.950ml of M3672 + 436.800ml of W 1152 + 5.000ml of M3844 = Final Quantity: 500.000 ml

RecipeID	NAME	NO.	Prep Date	Expiration D	Prepared By
3350	S6 ICPMS	MP39001	04/03/2017	04/19/2017	jaswal

FROM 50.000ml of MP38998 + 50.000ml of MP39000 = Final Quantity: 100.000 ml

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STANDARD PREPARATION LOG

RecipeID	NAME	NO.	Prep Date	Expiration D	Prepared By
3351	S5 ICPMS	MP39002	04/03/2017	04/19/2017	jaswal

FROM 25.000ml of MP39000 + 75.000ml of MP38998 = Final Quantity: 100.000 ml

RecipeID	NAME	NO.	Prep Date	Expiration D	Prepared By
1145	S4 ICPMS	MP39003	04/03/2017	04/19/2017	jaswal

FROM 12.500ml of MP39000 + 87.500ml of MP38998 = Final Quantity: 100.000 ml

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STANDARD PREPARATION LOG

RecipeID	NAME	NO.	Prep Date	Expiration D	Prepared By
1146	S3 ICPMS	MP39004	04/03/2017	04/19/2017	jaswal

FROM 10.000ml of MP39001 + 90.000ml of MP38998 = Final Quantity: 100.000 ml

RecipeID	NAME	NO.	Prep Date	Expiration D	Prepared By
1120	ICPMS ISM01.2 S1(CONC.)	MP39006	04/03/2017	04/19/2017	jaswal

FROM 0.050ml of M3298 + 0.050ml of M3304 + 0.050ml of M3305 + 0.050ml of M3306 + 0.050ml of M3316 + 0.050ml of M3321 + 0.050ml of M3325 + 0.050ml of M3327 + 0.050ml of M3328 + 0.050ml of M3333 + 0.050ml of M3470 + 0.050ml of M3535 + 0.050ml of M3814 + 0.100ml of M3468 + 0.100ml of M3471 + 0.100ml of M3602 + 0.100ml of M3612 + 0.100ml of M3668 + 0.250ml of M3323 + 0.250ml of M3759 + 0.250ml of M3783 + 0.250ml of M3787 + 0.250ml of M3812 + 0.250ml of M3813 + 0.500ml of M3785 + 2.500ml of M3626 + 2.500ml of M3630 + 2.500ml of M3671 + 2.500ml of M3672 + 236.900ml of MP38998 = Final Quantity: 250.000 ml

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

STANDARD PREPARATION LOG

RecipeID	NAME	NO.	Prep Date	Expiration D	Prepared By
1147	S2 ICPMS	MP39007	04/03/2017	04/19/2017	jaswal

FROM 0.500ml of MP39006 + 99.500ml of MP38998 = Final Quantity: 100.000 ml

RecipeID	NAME	NO.	Prep Date	Expiration D	Prepared By
1148	S1 ICPMS	MP39008	04/03/2017	04/19/2017	jaswal

FROM 10.000ml of MP39007 + 90.000ml of MP38998 = Final Quantity: 100.000 ml

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

STANDARD PREPARATION LOG

RecipeID	NAME	NO.	Prep Date	Expiration D	Prepared By
3130	100ppm ICV SOL.	MP39010	04/03/2017	04/19/2017	jaswal

FROM 0.250ml of M3498 + 2.500ml of M3758 + 21.500ml of MP38998 = Final Quantity: 25.000 ml

RecipeID	NAME	NO.	Prep Date	Expiration D	Prepared By
1575	ICV ISM01.2 MS	MP39011	04/03/2017	04/19/2017	jaswal

FROM 2.000ml of M3745 + 0.500ml of MP39010 + 97.500ml of MP38998 = Final Quantity: 100.000 ml

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

STANDARD PREPARATION LOG

RecipeID	NAME	NO.	Prep Date	Expiration D	Prepared By
1430	CCV ICPMS ISM01.2	MP39012	04/03/2017	04/19/2017	jaswal

FROM 0.250ml of M3298 + 0.250ml of M3304 + 0.250ml of M3333 + 0.250ml of M3468 + 0.250ml of M3470 + 0.250ml of M3535 + 0.250ml of M3668 + 0.250ml of M3759 + 0.475ml of M3602 + 0.500ml of M3760 + 0.500ml of M3792 + 1.000ml of M3785 + 1.225ml of M3626 + 1.225ml of M3783 + 12.500ml of M3591 + 2.475ml of M3630 + 2.475ml of M3671 + 2.475ml of M3672 + 470.900ml of MP38998 = Final Quantity: 500.000 ml

RecipeID	NAME	NO.	Prep Date	Expiration D	Prepared By
1142	ICSA ICPMS	MP39013	04/03/2017	04/19/2017	jaswal

FROM 10.000ml of M3683 + 90.000ml of MP38998 = Final Quantity: 100.000 ml

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

STANDARD PREPARATION LOG

RecipeID	NAME	NO.	Prep Date	Expiration D	Prepared By
1143	ICSAB ICPMS	MP39014	04/03/2017	04/19/2017	jaswal

FROM 0.005ml of M3298 + 0.005ml of M3304 + 0.005ml of M3333 + 0.005ml of M3533 + 10.000ml of M3680 + 10.000ml of M3683 + 79.975ml of MP38998 = Final Quantity: 100.000 ml

RecipeID	NAME	NO.	Prep Date	Expiration D	Prepared By
3124	ICPMS Internal std P7	MP39016	04/03/2017	04/19/2017	jaswal

FROM 220.000ml of W1152 + 25.000ml of M3832 + 5.000ml of M3844 = Final Quantity: 250.000 ml

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

STANDARD PREPARATION LOG

RecipeID	NAME	NO.	Prep Date	Expiration D	Prepared By
1135	MG 10PPM ILM05.4 FOR TUNE	MP39017	04/03/2017	04/19/2017	jaswal

FROM 0.100ml of M3671 + 99.900ml of MP38998 = Final Quantity: 100.000 ml

RecipeID	NAME	NO.	Prep Date	Expiration D	Prepared By
1172	TUNE SOL 100PPB ICPMS	MP39018	04/03/2017	04/19/2017	jaswal

FROM 1.000ml of M3541 + 1.000ml of MP39017 + 98.000ml of MP38998 = Final Quantity: 100.000 ml

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STANDARD PREPARATION LOG

RecipeID	NAME	NO.	Prep Date	Expiration D	Prepared By
3352	6020 SPIKE LCS-1	MP39020	04/03/2017	04/19/2017	jaswal

FROM 5.000ml of M3298 + 5.000ml of M3304 + 5.000ml of M3305 + 5.000ml of M3306 + 5.000ml of M3316 + 5.000ml of M3321 + 5.000ml of M3323 + 5.000ml of M3325 + 5.000ml of M3327 + 5.000ml of M3328 + 5.000ml of M3333 + 5.000ml of M3471 + 5.000ml of M3612 + 5.000ml of M3812 + 5.000ml of M3814 + 20.000ml of MP38998 = Final Quantity: 100.000 ml

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CGTH1-1 / Thorium 1000 ug/ml	H2-TH01094R	12/15/2017	01/30/2015 / BIN	01/19/2015 / BIN	M3298

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CGZR1-1 / Zirconium, 1000 PPM, 125 ml	H2-ZR01095R	12/16/2017	01/30/2015 / BIN	01/19/2015 / BIN	M3304

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CGNI1-1 / NICKEL 125mL 1000ug/mL	H2-NI02086R	12/03/2017	01/30/2015 / BIN	01/19/2015 / BIN	M3305

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CGCO1-1 / COBALT 125mL 1000ug/mL	H2-CO02063	10/27/2017	01/30/2015 / BIN	01/19/2015 / BIN	M3306

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CGTL1-1 / THALLIUM 125mL 1000ug/mL	H2-TL02003R	11/20/2017	01/30/2015 / BIN	01/19/2015 / BIN	M3316

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CGAS1-1 / ARSENIC 125mL 1000ug/mL	H2-AS02102R	12/11/2017	01/30/2015 / BIN	01/19/2015 / BIN	M3321

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CGV1-1 / VANADIUM 125mL 1000ug/mL	H2-V02090	05/09/2017	01/30/2015 / BIN	01/19/2015 / BIN	M3323

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CGBE1-1 / BERYLLIUM 125mL 1000ug/mL	H2-BE02021R	11/20/2017	01/30/2015 / BIN	01/19/2015 / BIN	M3325

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CGPB1-1 / LEAD 125mL 1000ug/mL	H2-PB03044R	12/04/2017	01/30/2015 / BIN	01/19/2015 / BIN	M3327

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CGAG1-1 / SILVER 125mL 1000ug/mL	H2-AG03035R	12/03/2017	01/30/2015 / BIN	01/19/2015 / BIN	M3328

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CGU1-1 / Uranium 1000 ug/ml	H2-U01102R	11/20/2017	01/30/2015 / BIN	01/19/2015 / BIN	M3333

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CGCU1-5 / Copper, 500 ml, 1000 PPM	H2-CU03021	02/13/2018	09/16/2015 / BIN	09/04/2015 / BIN	M3468

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57038 / Strontium (Sr) 1000PPM	071415	07/14/2018	09/24/2015 / jaswal	09/24/2015 / jaswal	M3470

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58024 / Chromium, Cr, 500 ml, 1000 PPM	010615	01/06/2018	09/24/2015 / jaswal	09/24/2015 / jaswal	M3471

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CGMG10-5 / Magnesium, 500 ml, 10000 PPM	J2-MG03145	07/16/2018	10/02/2015 / BIN	10/02/2015 / BIN	M3481

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CGCA10-5 / Calcium, 500 ml, 10000 PPM	H2-CA04105	12/03/2017	10/02/2015 / BIN	10/02/2015 / BIN	M3482

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CGSR10-1 / STRONTIUM 1 X 125 ml	H2-SR02049	11/17/2017	10/13/2015 / jaswal	09/29/2015 / BIN	M3498

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CGSNCL1-1 / TIN/HCL 125mL 1000ug/mL	H2-SN02071	04/03/2018	12/18/2015 / BIN	12/10/2015 / BIN	M3533

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58025 / Manganese, Mn, 500 ml, 1000 PPM	072215	07/22/2018	12/18/2015 / BIN	12/07/2015 / BIN	M3535

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	IV-STOCK-12 / ICP-MS TUNING SOLUTION, 125mL	J2-MEB603008	11/06/2018	01/14/2016 / jaswal	01/07/2016 / jaswal	M3541

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	6020CAL-1 / Calibration Standard Method 6020	J2-MEB598085	09/25/2018	06/06/2016 / jaswal	04/13/2016 / BIN	M3591

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58113 / Aluminum (Al) 10,000PPM	123115	12/31/2018	06/01/2016 / BIN	06/12/2015 / BIN	M3602

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CGSBF1-1 / ANTIMONY HF, 125mL 1,000ug/mL	J2-SB03035	04/21/2018	05/26/2016 / BIN	05/23/2016 / BIN	M3612

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CGK10-5 / Potassium, 500 ml, 10000 PPM	J2-K03054	12/01/2018	06/02/2016 / BIN	05/13/2016 / BIN	M3626

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CGNA10-5 / Sodium, 500 ml, 10000 PPM	J2-NA03138	10/01/2018	06/06/2016 / jaswal	05/13/2016 / BIN	M3630

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CGZN1-5 / Zinc, 500 ml, 1000 PPM	K2-ZN02116	04/21/2020	08/26/2016 / BIN	08/26/2016 / BIN	M3668

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CGMG10-5 / Magnesium, 500 ml, 10000 PPM	J2-MG03145	07/16/2018	01/07/2017 / jaswal	06/07/2016 / BIN	M3671

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CGCA10-5 / Calcium, 500 ml, 10000 PPM	H2-CA04105	12/03/2017	01/07/2017 / jaswal	06/07/2016 / BIN	M3672

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
EPA	/ ICSB (ICPMS) STOCK SOLUTION	ICSB-0803	08/16/2021	01/01/1900 /	08/16/2016 / BIN	M3680

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
EPA	PART A / ICSA (ICPMS) STOCK SOLN	ICSA-0803	08/16/2017	02/16/2017 / jaswal	08/16/2016 / BIN	M3683

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
EPA	ICV-1 / ICV (ICP/ICPMS) STOCK SOLN	ICV1-0307	08/27/2017	02/27/2017 / jaswal	03/04/2016 / BIN	M3745

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CHEM-QC-4 / CHEM-QC-4, Second Source, 1000 ug/ml, B, Mo, Si, Sn, Ti	K2-MEB651765	09/13/2019	10/03/2016 / bin	09/20/2016 / bin	M3758

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	Z9651Q / CHEM-CLP-4/.25L	K2-MEB651764	09/13/2019	10/03/2016 / bin	09/20/2016 / bin	M3759

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CGP10-1 / Phosphorus, 125 ml, 10000 ug/ml	K2-P02069	05/17/2020	10/03/2016 / bin	09/20/2016 / bin	M3760

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CGFE10-5 / Iron, 500 ml, 10000 PPM	K2-FE04057	02/27/2020	11/30/2016 / BIN	11/18/2016 / BIN	M3783

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CGBA1-1 / BARIUM 125mL 1000ug/mL	K2-BA650002	07/19/2020	11/30/2016 / BIN	11/18/2016 / BIN	M3785

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CGB1-1 / BORON 125mL 1000ug/mL	K2-B02134	03/11/2020	11/30/2016 / BIN	11/18/2016 / BIN	M3787

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CGS10-1 / SULFUR 125mL 10,000ug/mL	K2-S02040	02/18/2020	12/08/2016 / BIN	12/08/2016 / BIN	M3792

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CGSE(4)1-1 / SELENIUM 125mL 1000ug/mL	J2-SE02058	06/09/2018	01/30/2017 / BIN	01/30/2017 / BIN	M3812

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CGSI1-1 / SILICON 125mL 1000ug/mL	J2-SI03059	12/23/2018	01/30/2017 / BIN	01/30/2017 / BIN	M3813

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CGCD1-1 / CADMIUM, 125mL 1000ug/mL	K2-CD650193	07/20/2020	01/30/2017 / BIN	01/30/2017 / BIN	M3814

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	140440 / TEST PAPERS,PH,0-2.5,.2SENSI, 100PK	hc681231	02/08/2021	02/13/2017 / bhadresh	02/08/2017 / bhadresh	M3819

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	6020ISS / 6020ISS, 10 ug/ml, Bi, Ho, In, 6Li, Rh, Sc, TB, Y	K2-MEB651921	10/03/2020	03/15/2017 / jaswal	10/17/2016 / jaswal	M3832

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L)	0000162118	10/11/2021	04/03/2017 / bhadresh	03/29/2017 / bhadresh	M3843

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9598-34 / Nitric Acid, Instra-Analyzed (cs/4x2.5L)	0000162027	12/01/2021	03/31/2017 / bhadresh	03/29/2017 / bhadresh	M3844

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9598-34 / Nitric Acid, Instra-Analyzed (cs/4x2.5L)	0000162027	12/01/2021	04/11/2017 / bhadresh	04/05/2017 / bhadresh	M3847

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Res-Kem General water	DIW / DI Water	Lab certified	02/23/2025	02/23/2010 /	02/23/2010 / divya	W1152

M3298 R: 01/19/15 OP: 01/30/15

INORGANIC VENTURES™
300 Technology Drive
Christiansburg, VA 24073 · USA
inorganicventures.com

CERTIFICATE OF ANALYSIS

Ex: 12/15/17

tel: 800.669.6799 · 540.585.3030
fax: 540.585.3012
info@inorganicventures.com

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ACCREDITED Testing Laboratory Certificate 883.01 ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGTH1
Lot Number:	H2-TH01094R
Matrix:	5% (v/v) HNO3
Value/Analyte(s):	1 000 µg/mL Thorium
Starting Material:	Th(NO3)4x4H2O
Starting Material Lot#:	1803
Starting Material Purity:	99.9934%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 1000 ± 4 µg/mL

Certified Density: 1.026 g/mL (measured at 20 ± 1 °C)

Assay Information:

Assay Method #1 **1001 ± 4 µg/mL**
ICP Assay NIST SRM 3159 Lot Number: 992912

Assay Method #2 **1000 ± 3 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

M334 OD: 01/30/15 R: 01/19/15

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INORGANIC VENTURES™
300 Technology Drive
Christiansburg, VA 24073 · USA
inorganicventures.com

tel: 800.669.6799 · 540.585.3030
fax: 540.585.3012
info@inorganicventures.com

Ex: 12/16/17

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ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGZR1
Lot Number:	H2-ZR01095R
Matrix:	tr. HF
Value/Analyte(s):	1 000 µg/mL Zirconium
Starting Material:	ZrO2
Starting Material Lot#:	1765
Starting Material Purity:	99.9947%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 995 ± 5 µg/mL - weighted mean

Certified Density: 1.000 g/mL (measured at 20 ± 1 °C)

Assay Information:

Assay Method #1 **997 ± 3 µg/mL**
ICP Assay NIST SRM 3169 Lot Number: 071226

Assay Method #2 **1000 ± 3 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

M3305 R: 01/19/15 OP: 01/30/15 Ex: 12/03/17

INORGANIC VENTURES™
300 Technology Drive
Christiansburg, VA 24073 · USA
inorganicventures.com

CERTIFICATE OF ANALYSIS

tel: 800.669.6799 · 540.585.3030
fax: 540.585.3012
info@inorganicventures.com

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ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGNI1
Lot Number:	H2-NI02086R
Matrix:	2% v/v HNO3
Value/Analyte(s):	1 000 µg/mL Nickel
Starting Material:	Ni pieces
Starting Material Lot#:	1559
Starting Material Purity:	99.9998%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 1002 ± 4 µg/mL - weighted mean

Certified Density: 1.011 g/mL (measured at 20 ± 1 °C)

Assay Information:

Assay Method #1	**1001 ± 3 µg/mL** ICP Assay NIST SRM 3136 Lot Number: 000612
Assay Method #2	**1002 ± 3 µg/mL** EDTA NIST SRM 928 Lot Number: 928

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

M3306 R:01/19/15 O: 01/30/15 Ex: 10/27/17

INORGANIC VENTURES™

300 Technology Drive
Christiansburg, VA 24073 · USA
inorganicventures.com

tel: 800.669.6799 · 540.585.3030
fax: 540.585.3012
info@inorganicventures.com

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ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGCO1
Lot Number:	H2-CO02063
Matrix:	3% (v/v) HNO3
Value / Analyte(s):	1 000 µg/mL ea: Co
Starting Material:	Cobalt Carbonate
Starting Material Lot#:	1850
Starting Material Purity:	99.9990%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 998 ± 3 µg/mL - weighted mean

Certified Density: 1.017 g/mL (measured at 20 ± 1 °C)

Assay Information:

Assay Method #1	**996 ± 4 µg/mL** ICP Assay NIST SRM 3113 Lot Number: 000630 Co
Assay Method #2	**999 ± 3 µg/mL** EDTA NIST SRM 928 Lot Number: 928

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

M3316 R: 01/19/15 OP: 01/30/15 Ex: 01/20/17

INORGANIC VENTURES™
300 Technology Drive
Christiansburg, VA 24073 · USA
inorganicventures.com

CERTIFICATE OF ANALYSIS

tel: 800.669.6799 · 540.585.3030
fax: 540.585.3012
info@inorganicventures.com

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ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGTL1
Lot Number:	H2-TL02003R
Matrix:	0.7% v/v HNO3
Value/Analyte(s):	1 000 µg/mL Thallium
Starting Material:	TINO3
Starting Material Lot#:	1576
Starting Material Purity:	99.9996%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 1003 ± 7 µg/mL - no weighted mean

Certified Density: 1.003 g/mL (measured at 20 ± 1 °C)

Assay Information:

Assay Method #1 **1003 ± 6 µg/mL**
ICP Assay NIST SRM 3158 Lot Number: 993012

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

M3321 R:01/19/15 OP:01/30/15 Exp 12/11/17

INORGANIC VENTURES™
300 Technology Drive
Christiansburg, VA 24073 · USA
inorganicventures.com

CERTIFICATE OF ANALYSIS

tel: 800.669.6799 · 540.585.3030
fax: 540.585.3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO Guide 34, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (SAI Global File Number (010105).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGAS1
Lot Number:	H2-AS02102R
Matrix:	2% (v/v) HNO3
Value/Analyte(s):	1 000 µg/mL Arsenic
Starting Material:	As Lump
Starting Material Lot#:	1814
Starting Material Purity:	99.9995%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 1001 ± 5 µg/mL - weighted mean

Certified Density: 1.012 g/mL (measured at 20 ± 1 °C)

Assay Information:

Assay Method #1 **999 ± 4 µg/mL**
ICP Assay NIST SRM 3103a Lot Number: 100818

Assay Method #2 **1002 ± 3 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

M333 R: 01/19/15 Ex: 01/30/15 Ex: 05/09/17
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300 Technology Drive
Christiansburg, VA 24073 · USA
inorganicventures.com

CERTIFICATE OF ANALYSIS

tel: 800.669.6799 · 540.585.3030
fax: 540.585.3012
info@inorganicventures.com

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ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGV1
Lot Number:	H2-V02090
Matrix:	2% (v/v) HNO3
Value/Analyte(s):	1 000 µg/mL Vanadium
Starting Material:	V2O5
Starting Material Lot#:	1782
Starting Material Purity:	99.9876%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 1000 ± 5 µg/mL weighted mean

Certified Density: 1.016 g/mL (measured at 20 ± 1 °C)

Assay Information:

Assay Method #1 **1000 ± 5 µg/mL**
ICP Assay NIST SRM 3165 Lot Number: 992706

Assay Method #2 **1000 ± 3 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

M 33285 R: 01/19/15 O: 01/30/15 Ex 11/2017

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Christiansburg, VA 24073 · USA
inorganicventures.com

tel: 800.669.6799 · 540.585.3030
fax: 540.585.3012
info@inorganicventures.com

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ACCREDITED Testing Laboratory Certificate 883.01 ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGBE1
Lot Number:	H2-BE02021R
Matrix:	3% (v/v) HNO3
Value/Analyte(s):	1 000 µg/mL Beryllium
Starting Material:	Be4O(OOCCH3)6
Starting Material Lot#:	1772
Starting Material Purity:	99.9999%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 1005 ± 5 µg/mL - no weighted mean

Certified Density: 1.022 g/mL (measured at 20 ± 1 °C)

Assay Information:

Assay Method #1 **1005 ± 4 µg/mL**
ICP Assay NIST SRM 3105a Lot Number: 090514

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

IV3327 R:01/19/15 D:01/30/15 Ex: 12/09/17

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300 Technology Drive
Christiansburg, VA 24073 · USA
inorganicventures.com

tel: 800.669.6799 540.585.3030
fax: 540.585.3012
info@inorganicventures.com

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2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGPB1
Lot Number:	H2-PB03044R
Matrix:	0.5% v/v HNO3
Value/Analyte(s):	1 000 µg/mL Lead
Starting Material:	Pb(NO3)2
Starting Material Lot#:	1717
Starting Material Purity:	99.9998%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 1000 ± 3 µg/mL - weighted mean

Certified Density: 1.002 g/mL (measured at 20 ± 1 °C)

Assay Information:

Assay Method #1	**998 ± 3 µg/mL** ICP Assay NIST SRM 3128 Lot Number: 101026
Assay Method #2	**1002 ± 3 µg/mL** EDTA NIST SRM 928 Lot Number: 928

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

M3328 O: 01/30/15 E: 12/03/17
R: 01/19/15

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Christiansburg, VA 24073 · USA
inorganicventures.com

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tel: 800.669.6799 · 540.585.3030
fax: 540.585.3012
info@inorganicventures.com

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ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGAG1
Lot Number:	H2-AG03035R
Matrix:	5% HNO3 (v/v)
Value/Analyte(s):	1 000 µg/mL Silver
Starting Material:	Ag shot
Starting Material Lot#:	1641
Starting Material Purity:	100.0000%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 1002 ± 6 µg/mL - weighted mean

Certified Density: 1.026 g/mL (measured at 20 ± 1 °C)

Assay Information:

Assay Method #1 **1000 ± 3 µg/mL**
ICP Assay NIST SRM 3151 Lot Number: 992212

Assay Method #2 **1003 ± 2 µg/mL**
Volhard NIST SRM 999b Lot Number: 999b

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

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Christiansburg, VA 24073 · USA
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R: 01/19/15 OD: 01/30/15 Ex: 11/20/17

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tel: 800.669.6799 · 540.585.3030
fax: 540.585.3012
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ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGU1
Lot Number:	H2-U01102R
Matrix:	2% HNO3 (v/v)
Value/Analyte(s):	1 000 µg/mL Uranium
Starting Material:	UO2(NO3)2•6H2O
Starting Material Lot#:	1767
Starting Material Purity:	99.9995%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 1004 ± 6 µg/mL - no weighted mean

Certified Density: 1.010 g/mL (measured at 20 ± 1 °C)

Assay Information:

Assay Method #1 **1004 ± 5 µg/mL**
ICP Assay NIST SRM 3164 Lot Number: 080521

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

R: 04/04/15
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Ex: 02/13/18
M3468

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300 Technology Drive
Christiansburg, VA 24073 · USA
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CERTIFICATE OF ANALYSIS

tel: 800.669.6799 · 540.585.3030
fax: 540.585.3012
info@inorganicventures.com

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ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGCU1
Lot Number:	H2-CU03021
Matrix:	3% (v/v) HNO3
Value / Analyte(s):	1 000 µg/mL ea: Cu
Starting Material:	Cu Metal
Starting Material Lot#:	1806
Starting Material Purity:	99.9996%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 1004 ± 5 µg/mL - weighted mean

Certified Density: 1.016 g/mL (measured at 20 ± 1 °C)

Assay Information:

Assay Method #1 **1002 ± 5 µg/mL**
ICP Assay NIST SRM 3114 Lot Number: 121207

Assay Method #2 **1005 ± 3 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

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M3471

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CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:		
Part Number:	**58024**	C363101	Nitric Acid		
Lot Number:	**010615**				
Description:	**Chromium (Cr)**	2.0%	40.0 (mL)	Nitric Acid	
Expiration Date:	010618				
	Storage: 20 °C				
Nominal Concentration (µg/mL):	**1000**				
	5E-05 Balance Uncertainty				
Volume shown below was diluted to (mL):	2000.24	0.142 Flask Uncertainty			

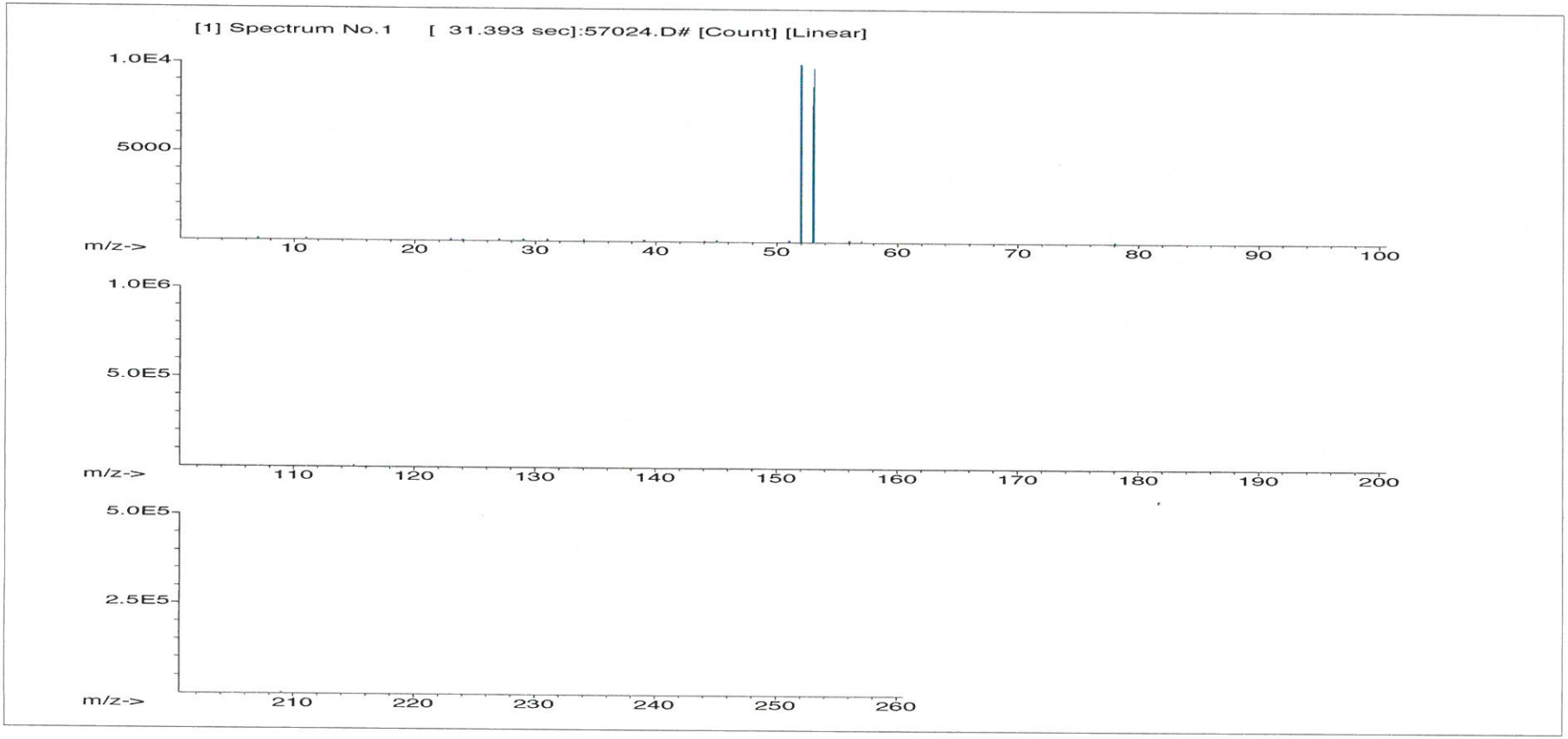
Giovanni Esposito

Formulated By:	Giovanni Esposito	010615

Pedro Rentas

Reviewed By:	Pedro L. Rentas	010615

Compound	Part Number	Lot Number	Dilution Factor	Initial Volume	Uncertainty Pipette	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty (+/-)	MSDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Chromium (III) nitrate nonahydrate (Cr)	58124	093014	0.100	200.0	0.013	10001.0	**1000.0**	0.00201	07789-02-8	0.5 mg(Cr)/m3	orl-rat 3250 mg/kg	3112a



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I2745-METALS

M 3489 R: 10/02/15 OP: 10/02/15

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Christiansburg, VA 24073 · USA
inorganicventures.com

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BH Ex: 07/16/18

tel: 800.669.6799 · 540.585.3030
fax: 540.585.3012
info@inorganicventures.com

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ACCREDITED Testing Laboratory Certificate 883.01 ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGMG10
Lot Number:	J2-MG03145
Matrix:	2% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Mg
Starting Material:	Mg chips
Starting Material Lot#:	1484
Starting Material Purity:	99.9987%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 9970 ± 24 µg/mL

Certified Density: 1.053 g/mL (measured at 20 ± 1 °C)

Assay Information:

Assay Method #1 **9954 ± 58 µg/mL**
ICP Assay NIST SRM 3131a Lot Number: 050302

Assay Method #2 **9973 ± 26 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

M3482 MP: 10/02/15 Ex: 12/03/17 R: 10/02/15

INORGANIC VENTURES
300 Technology Drive
Christiansburg, VA 24073 - USA
inorganicventures.com

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BH

tel: 800.669.6799 - 540.585.3030
fax: 540.585.3012
info@inorganicventures.com

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ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGCA10
Lot Number:	H2-CA04105
Matrix:	2% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Ca
Starting Material:	CaO
Starting Material Lot#:	1748
Starting Material Purity:	99.9971%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 9950 ± 24 µg/mL - weighted mean

Certified Density: 1.040 g/mL (measured at 20 ± 1 °C)

Assay Information:

Assay Method #1 **9956 ± 50 µg/mL**
ICP Assay NIST SRM 3109a Lot Number: 130213

Assay Method #2 **9948 ± 25 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

IV3498 R:09/29/15

CERTIFICATE OF ANALYSIS

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300 Technology Drive
Christiansburg, VA 24073 • USA
inorganicventures.com
tel: 800.669.6799 • 540.585.3030
fax: 540.585.3012
info@inorganicventures.com

Ex: 11/17/2017 BH

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ACCREDITED Testing Laboratory Certificate 883.01 ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGSR10
Lot Number:	H2-SR02049
Matrix:	2% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Sr
Starting Material:	SrCO3
Starting Material Lot#:	1716
Starting Material Purity:	99.9989%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10013 ± 33 µg/mL - weighted mean

Certified Density: 1.030 g/mL (measured at 20 ± 1 °C)

Assay Information:

Assay Method #1	**9955 ± 54 µg/mL** ICP Assay NIST SRM 3153a Lot Number: 990906
Assay Method #2	**10046 ± 41 µg/mL** EDTA NIST SRM 928 Lot Number: 928

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

M3533 R: 12/10/15
OP: 12/18/15 BH

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300 Technology Drive
Christiansburg, VA 24073 - USA
inorganicventures.com

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tel: 800.669.6799 - 540.585.3030
fax: 540.585.3012
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ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGSNCL1
Lot Number:	H2-SN02071
Matrix:	20% (v/v) HCl
Value / Analyte(s):	1 000 µg/mL ea: Sn
Starting Material:	Sn Shot
Starting Material Lot#:	1789
Starting Material Purity:	99.9982%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 1000 ± 6 µg/mL

Certified Density: 1.042 g/mL (measured at 20 ± 1 °C)

Assay Information:

Assay Method #1

NIST SRM Lot Number:

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

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M3535

Certified Reference Material CRM

R: 12/10/15
OP: 12/18/15

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CERTIFIED WEIGHT REPORT:

Part Number:	**58025**	**Lot #**	**Solvent:**		
Lot Number:	**072215**	C471305	Nitric Acid		
Description:	**Manganese (Mn)**				
		2.0%	40.0 (mL)	Nitric Acid	
Expiration Date:	072218				
	Storage: 20 °C				
Nominal Concentration (µg/mL):	**1000**				
		5E-05	Balance Uncertainty		
Volume shown below was diluted to (mL):	2000.24	0.148	Flask Uncertainty		

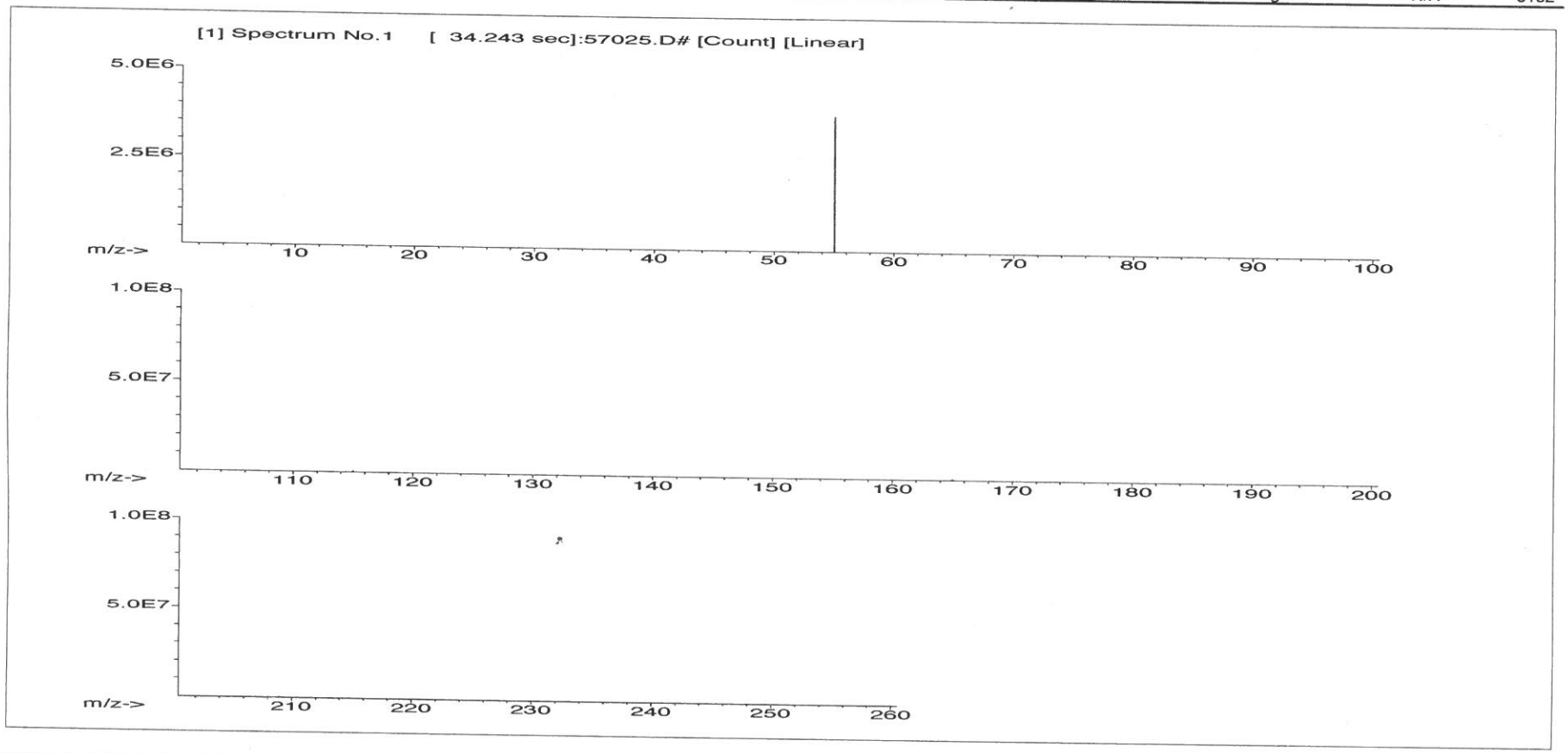
Gabriel Helland

Formulated By:	Gabriel Helland	072215

Pedro Rentas

Reviewed By:	Pedro L. Rentas	072215

Compound	Part Number	Lot Number	Dilution Factor	Initial Volume	Uncertainty Pipette	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty (+/-)	MSDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Manganese (II) nitrate Hydrate (Mn)	58125	012115	0.1000	200.0	0.013	10001.5	**1000.0**	0.00201	15710-66-4	5 mg/m3	N/A	3132



INORGANIC VENTURES
300 Technology Drive
Christiansburg, VA 24073 - USA
inorganicventures.com

R: 01/07/16
Do: 01/14/16
Exp: 11/06/18

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M3541

toll-free: 800.669.6799 - 540.585.3030
fax: 540.585.3012
info@inorganicventures.com

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ACCREDITED Testing Laboratory Certificate 883.01
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2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	IV-STOCK-12
Lot Number:	J2-MEB603008
Matrix:	5% (v/v) HNO3
Value / Analyte(s):	10 µg/mL ea:

Ba, Be, Bi,
Ce, Co, In,
Li, Ni, Pb,
U

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Barium, Ba	10.00 ± 0.05 µg/mL	Beryllium, Be	10.00 ± 0.06 µg/mL
Bismuth, Bi	10.00 ± 0.05 µg/mL	Cerium, Ce	10.00 ± 0.05 µg/mL
Cobalt, Co	10.00 ± 0.05 µg/mL	Indium, In	10.00 ± 0.05 µg/mL
Lead, Pb	10.00 ± 0.05 µg/mL	Lithium, Li	10.00 ± 0.06 µg/mL
Nickel, Ni	10.00 ± 0.05 µg/mL	Uranium, U	10.00 ± 0.06 µg/mL

Certified Density: 1.023 g/mL (measured at 20 ± 1 °C)

Assay Information:

M3591 - M3595 R: 04/13/16
Ex: 09/25/18 (BH)

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300 Technology Drive
Christiansburg, VA 24073 - USA
inorganicventures.com

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tel: 800.669.6799 - 540.585.3030
fax: 540.585.3012
info@inorganicventures.com

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2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	6020CAL-1
Lot Number:	J2-MEB598085
Matrix:	5% (v/v) HNO3 tr. HF
Value / Analyte(s):	20 µg/mL ea:

Ag,	Al,	As,
Ba,	Be,	Ca,
Cd,	Co,	Cr3,
Cu,	Fe,	K,
Mg,	Mn,	Na,
Ni,	Pb,	Sb,
Se,	Tl,	V,
Zn		

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Aluminum, Al	20.00 ± 0.13 µg/mL	Antimony, Sb	20.01 ± 0.14 µg/mL
Arsenic, As	20.00 ± 0.18 µg/mL	Barium, Ba	20.00 ± 0.13 µg/mL
Beryllium, Be	20.00 ± 0.13 µg/mL	Cadmium, Cd	20.00 ± 0.12 µg/mL
Calcium, Ca	20.00 ± 0.12 µg/mL	Chromium+3, Cr3	20.00 ± 0.13 µg/mL
Cobalt, Co	20.00 ± 0.13 µg/mL	Copper, Cu	20.00 ± 0.12 µg/mL
Iron, Fe	20.00 ± 0.09 µg/mL	Lead, Pb	20.00 ± 0.13 µg/mL
Magnesium, Mg	20.00 ± 0.12 µg/mL	Manganese, Mn	20.00 ± 0.12 µg/mL
Nickel, Ni	20.00 ± 0.13 µg/mL	Potassium, K	20.00 ± 0.12 µg/mL
Selenium, Se	20.00 ± 0.13 µg/mL	Silver, Ag	20.00 ± 0.13 µg/mL
Sodium, Na	20.00 ± 0.12 µg/mL	Thallium, Tl	19.99 ± 0.12 µg/mL
Vanadium, V	20.00 ± 0.12 µg/mL	Zinc, Zn	20.00 ± 0.14 µg/mL

Certified Density: 1.026 g/mL (measured at 20 ± 1 °C)

Assay Information:

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ISO 9001 QS Registered
ISO 17025-34-35-43 Accredited
Scopes: http://AbsoluteStandards.com

CERTIFIED WEIGHT REPORT:

Part Number: **58113**
Lot Number: **123115**
Description: **Aluminum (Al)**

Expiration Date: 123118
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): **10000**

Weight shown below was diluted to (mL): 1999.78

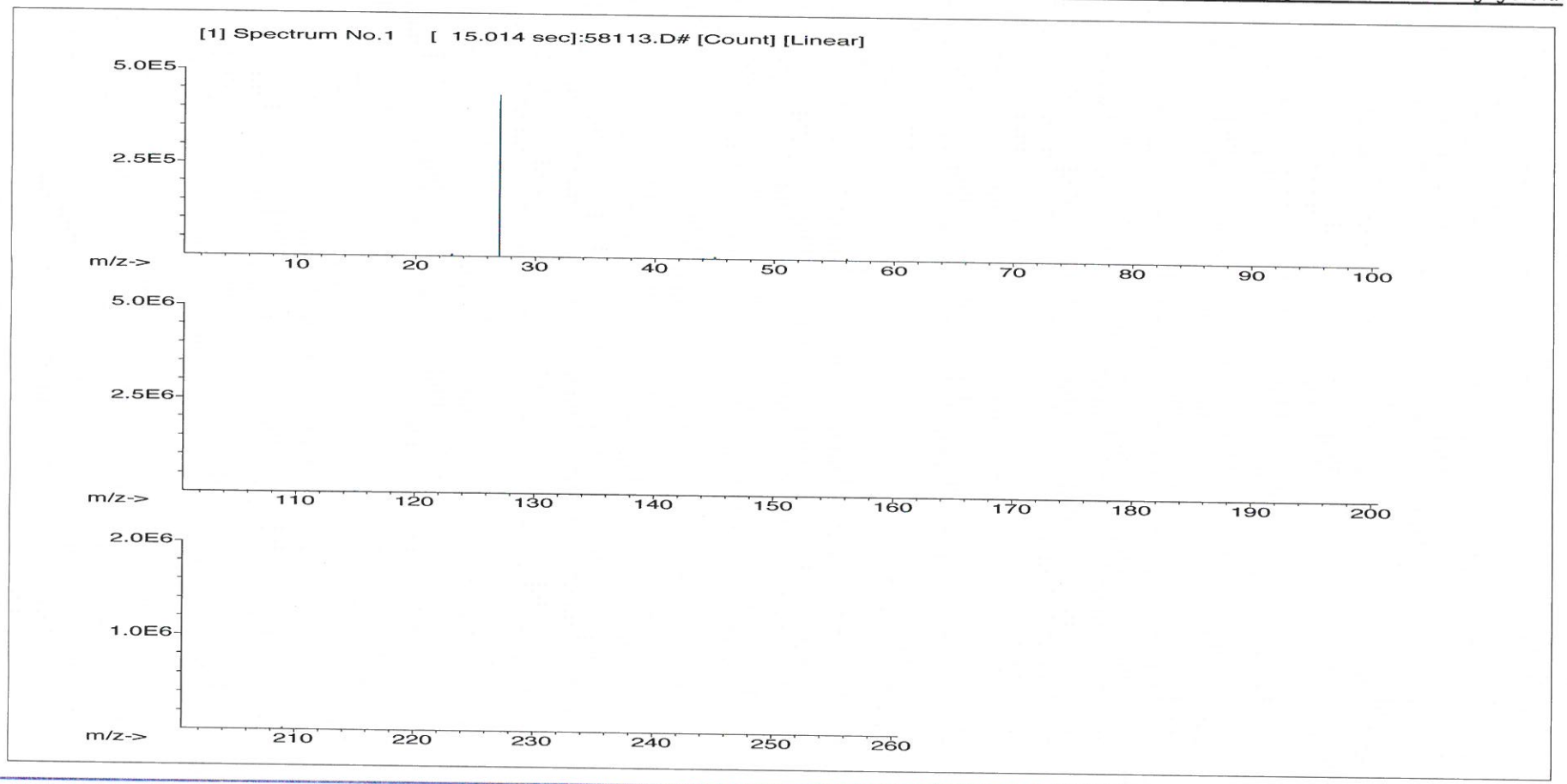
	Lot #		
Solvent:	C471305	Nitric Acid	
2%	40.0 (mL)	Nitric Acid	
	5E-05	Balance Uncertainty	
	0.100	Flask Uncertainty	

Formulated By: Lawrence Barry 123115
Reviewed By: Pedro L. Rentas 123115

M362
ReDate: 06/12/15
Ex: 12/31/18

BH

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity	Uncertainty Purity	Assay (%)	Target Weight (g)	Actual Weight (g)	**Actual Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	MSDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Aluminum nitrate nonahydrate (Al)	IN022	ALE42013A1	10000.0	99.999	0.10	7.10	281.6625	281.7048	**10001.5**	**20.0**	07784-27-2	5 mg/m3	orl-rat 264 mg/kg 3101a	



M3612 R: 05123/16 Ex: 04/2018
op: 05/26/16

INORGANIC VENTURES

CERTIFICATE OF ANALYSIS

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO Guide 34, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (SAI Global File Number 010105).

ACCREDITED Testing Laboratory Certificate 863.01

ACCREDITED Reference Material Producer Certificate 491.22

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGSBF1
Lot Number:	J2-SB03035
Matrix:	2% (v/v) HNO3 tr. HF
Value / Analyte(s):	1 000 µg/mL ea. Sb
Starting Material:	Sb shot
Starting Material Lot#:	1647
Starting Material Purity:	99.9997%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 998 ± 6 µg/mL - no weighted mean

Certified Density: 1.010 g/mL (measured at 20 ± 1 °C)

Assay Information:

Assay Method #1 **998 ± 4 µg/mL**
ICP Assay NIST SRM 3102A Lot Number: 061229

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

M3626
R: 05/13/16
Ex: 12/01/18
DP: 06/02/16

INORGANIC VENTURES
300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

CERTIFICATE OF ANALYSIS

tel: 800.669.6799 - 540.585.3030
fax: 540.585.3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO Guide 34, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (SAI Global File Number 010105).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGK10
Lot Number:	J2-K03054
Matrix:	2% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Potassium
Starting Material:	KNO3
Starting Material Lot#:	1727
Starting Material Purity:	99.9990%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10 003 ± 24 µg/mL

Certified Density: 1.025 g/mL (measured at 20 ± 1 °C)

Assay Information:

Assay Method #1 **10008 ± 64 µg/mL**
ICP Assay NIST SRM 3141a Lot Number: 140813

Assay Method #2 **10003 ± 24 µg/mL**
Gravimetric NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

M3630 R: 05113116

Ex: 10/01/18

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INORGANIC VENTURES

300 Technology Drive
Christiansburg, VA 24073 - USA
inorganicventures.com

toll: 800.669.6779 - 540.585.3030
fax: 540.585.3012
info@inorganicventures.com

CERTIFICATE OF ANALYSIS

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO Guide 34, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (SAI Global File Number 010105).

ACCREDITED Testing Laboratory Certificate 883.01

ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGNA10
Lot Number:	J2-NA03138
Matrix:	2% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Na
Starting Material:	Na2CO3
Starting Material Lot#:	1628 and 1870
Starting Material Purity:	99.9995%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 9991 ± 18 µg/mL

Certified Density: 1.033 g/mL (measured at 20 ± 1 °C)

Assay Information:

Assay Method #1 **10015 ± 47 µg/mL**
ICP Assay NIST SRM 3152a Lot Number: 120715

Assay Method #2 **9987 ± 18 µg/mL**
Gravimetric NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

M3668 R: 08/26/16 Ex: 04/21/20
OP: 08/26/16

INORGANIC VENTURES
300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

CERTIFICATE OF ANALYSIS

tel: 800.669.6799 540.585.3030
fax: 540.585.3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO Guide 34, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (SAI Global File Number 010105).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGZN1
Lot Number:	K2-ZN02116
Matrix:	2% (v/v) HNO3
Value / Analyte(s):	1 000 µg/mL ea: Zinc
Starting Material:	Zn Shot
Starting Material Lot#:	1887
Starting Material Purity:	99.9994%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 998 ± 5 µg/mL

Certified Density: 1.011 g/mL (measured at 20 ± 1 °C)

Assay Information:

Assay Method #1 **995 ± 3 µg/mL**
ICP Assay NIST SRM 3168a Lot Number: 120629

Assay Method #2 **1001 ± 3 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

M3671 Ex: 07/16/18

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INORGANIC VENTURES
300 Technology Drive
Christiansburg, VA 24073 · USA
inorganicventures.com

CERTIFICATE OF ANALYSIS

tel: 800.669.6799 · 540.585.3030
fax: 540.585.3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO Guide 34, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (SAI Global File Number 010105).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGMG10
Lot Number:	J2-MG03145
Matrix:	2% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Magnesium
Starting Material:	Mg chips
Starting Material Lot#:	1484
Starting Material Purity:	99.9987%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 9970 ± 24 µg/mL

Certified Density: 1.053 g/mL (measured at 20 ± 1 °C)

Assay Information:

Assay Method #1 **9954 ± 58 µg/mL**
ICP Assay NIST SRM 3131a Lot Number: 050302

Assay Method #2 **9973 ± 26 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

M3672 Ex: 12/03/17 BH

INORGANIC VENTURES

CERTIFICATE OF ANALYSIS

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO Guide 34, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (SAI Global File Number 010105).

ACCREDITED Testing Laboratory Certificate 883.01 ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGCA10
Lot Number:	H2-CA04105
Matrix:	2% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Calcium
Starting Material:	CaO
Starting Material Lot#:	1748
Starting Material Purity:	99.9971%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 9950 ± 24 µg/mL - weighted mean

Certified Density: 1.040 g/mL (measured at 20 ± 1 °C)

Assay Information:

Assay Method #1 **9956 ± 50 µg/mL**
ICP Assay NIST SRM 3109a Lot Number: 130213

Assay Method #2 **9948 ± 25 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

ICSB: M3673. M3674 M3675. M3676

Instructions for QATS Reference Material: *ICP-MS ICS* M3677

Using Class "A" glassware, preparation and analysis must be performed according to the following instructions:

ICSA-0803, Inferferents: Pipet 10 mL of the ICSA solution into a 100 mL volumetric flask and dilute to volume with 1% v/v HNO_3. Analyze this solution by ICP-MS.

R: 08/16/11

ICSB-0803, Analytes, mixed with ICSA-0803, Interferents: Pipet 10 mL of the ICSA solution and 10 mL of the ICSB solution into a 100 mL volumetric flask and dilute to volume with 1% v/v HNO_3. Analyze this ICSAB solution by ICP-MS.

(D) *"CERTIFIED VALUE" CONCENTRATIONS OF QATS ICP-MS ICS SOLUTION(S)*

The "Certified Value" concentrations of the elements, listed in Table 1 below, were derived from statistically pooled results from the following sources: CLP Pre-award analysis, Quarterly Blind analysis, CLP laboratory referee analysis, and QATS Laboratory analysis.

Table 1. "CERTIFIED VALUES" FOR INTERFERENCE CHECK SAMPLE ICP-MS ICSA-0803, AND ICSA-0803 MIXED WITH ICSB-0803

Element	CRQL	Part A (µg/L)	Lower Limit (µg/L)	Upper Limit (µg/L)	Part A +Part B (µg/L)	Lower Limit (µg/L)	Upper Limit (µg/L)
Al	20	[100000]			[100000]		
Sb	2	(1.5)	-2.5	5.5	22.0	17.6	26.4
As	1	(0.1)	-1.9	2.1	19.0	15.2	22.8
Ba	10	(1.2)	-18.8	21.2	(22.0)	2.0	42.0
Be	1	(0)	-2.0	2.0	19.0	15.2	22.8
Cd	1	(0.7)	-1.3	2.7	20.0	16.0	24.0
Ca	500	[100000]			[100000]		
C		[200000]			[200000]		
Cl		[1000000]			[1000000]		
Cr	2	21.0	16.8	25.2	40.0	32.0	48.0
Co	1	(1.0)	-1.0	3.0	20.0	16.0	24.0
Cu	2	(8.0)	4.0	12.0	25.0	20.0	30.0
Fe	200	[100000]			[100000]		
Pb	1	(4.0)	2.0	6.0	25.0	20.0	30.0
Mg	500	[100000]			[100000]		
Mn	1	(7.0)	5.0	9.0	27.0	21.6	32.4
Mo		[2000]			[2000]		
Ni	1	(6.0)	4.0	8.0	24.0	19.2	28.8
P		[100000]			[100000]		
K	500	[100000]			[100000]		
Se	5	(0.3)	-9.7	10.3	(19.0)	9.0	29.0
Ag	1	(0)	-2.0	2.0	18.0	14.4	21.6
Na	500	[100000]			[100000]		
S		[100000]			[100000]		
Tl	1	(0)	-2.0	2.0	21.0	16.8	25.2
Ti		[2000]			[2000]		
V	5	(0.5)	-9.5	10.5	(19.0)	9.0	29.0
Zn	2	(11.0)	7.0	15.0	29.0	23.2	34.8

[ ] Indicates analytes that do not require ICP-MS determination in the ICS.
( ) Indicates analyte certified values. The acceptance range is calculated based on +/- 2 times the CRQL.

ICSA: M3683 M3684 M3685 M3686 M3687 M3688 M3689 M3690 M3691 M3692

ICSB: M3673. M3674 M3675. M3676 M3677

R: 08/16/11

Instructions for QATS Reference Material: *ICP-MS ICS*

Using Class "A" glassware, preparation and analysis must be performed according to the following instructions:

ICSA-0803, Inferferents: Pipet 10 mL of the ICSA solution into a 100 mL volumetric flask and dilute to volume with 1% v/v HNO_3. Analyze this solution by ICP-MS.

ICSB-0803, Analytes, mixed with ICSA-0803, Interferents: Pipet 10 mL of the ICSA solution and 10 mL of the ICSB solution into a 100 mL volumetric flask and dilute to volume with 1% v/v HNO_3. Analyze this ICSAB solution by ICP-MS.

(D) *"CERTIFIED VALUE" CONCENTRATIONS OF QATS ICP-MS ICS SOLUTION(S)*

The "Certified Value" concentrations of the elements, listed in Table 1 below, were derived from statistically pooled results from the following sources: CLP Pre-award analysis, Quarterly Blind analysis, CLP laboratory referee analysis, and QATS Laboratory analysis.

Table 1. "CERTIFIED VALUES" FOR INTERFERENCE CHECK SAMPLE ICP-MS ICSA-0803, AND ICSA-0803 MIXED WITH ICSB-0803

Element	CRQL	Part A (µg/L)	Lower Limit (µg/L)	Upper Limit (µg/L)	Part A +Part B (µg/L)	Lower Limit (µg/L)	Upper Limit (µg/L)
Al	20	[100000]			[100000]		
Sb	2	(1.5)	-2.5	5.5	22.0	17.6	26.4
As	1	(0.1)	-1.9	2.1	19.0	15.2	22.8
Ba	10	(1.2)	-18.8	21.2	(22.0)	2.0	42.0
Be	1	(0)	-2.0	2.0	19.0	15.2	22.8
Cd	1	(0.7)	-1.3	2.7	20.0	16.0	24.0
Ca	500	[100000]			[100000]		
C		[200000]			[200000]		
Cl		[1000000]			[1000000]		
Cr	2	21.0	16.8	25.2	40.0	32.0	48.0
Co	1	(1.0)	-1.0	3.0	20.0	16.0	24.0
Cu	2	(8.0)	4.0	12.0	25.0	20.0	30.0
Fe	200	[100000]			[100000]		
Pb	1	(4.0)	2.0	6.0	25.0	20.0	30.0
Mg	500	[100000]			[100000]		
Mn	1	(7.0)	5.0	9.0	27.0	21.6	32.4
Mo		[2000]			[2000]		
Ni	1	(6.0)	4.0	8.0	24.0	19.2	28.8
P		[100000]			[100000]		
K	500	[100000]			[100000]		
Se	5	(0.3)	-9.7	10.3	(19.0)	9.0	29.0
Ag	1	(0)	-2.0	2.0	18.0	14.4	21.6
Na	500	[100000]			[100000]		
S		[100000]			[100000]		
Tl	1	(0)	-2.0	2.0	21.0	16.8	25.2
Ti		[2000]			[2000]		
V	5	(0.5)	-9.5	10.5	(19.0)	9.0	29.0
Zn	2	(11.0)	7.0	15.0	29.0	23.2	34.8

[ ] Indicates analytes that do not require ICP-MS determination in the ICS.
( ) Indicates analyte certified values. The acceptance range is calculated based on +/- 2 times the CRQL.

R: 03/04/14 BA

Instructions for QATS Reference Material: *Inorganic ICV Solutions*

For ICP-MS use: dilute the ICV1 concentrate 50-fold with 1% (v/v) nitric acid; pipet 2 mL of the concentrate into a 100 mL volumetric flask and dilute to volume with 1% (v/v) nitric acid.

ICV5-0508 For the cold vapor analysis of mercury by AA: dilute the ICV5 concentrate 100-fold with 2% (v/v) nitric acid; pipet 1 mL of the concentrate into a 100 mL volumetric flask and dilute to volume with 2% (v/v) nitric acid. The ICV5 concentrate is prepared in 0.05% (w/v) $K_2Cr_2O_7$ and 5% (v/v) nitric acid.

ICV6-0400 For the analysis of cyanide: dilute the ICV6 concentrate 100-fold with Type II water; pipet 1 mL of the concentrate into a 100 mL volumetric flask and dilute to volume with Type II water. Distill this solution along with the samples before analysis. The cyanide concentrate is prepared from $K_3Fe(CN)_6$, Type II water, and 0.1 % sodium hydroxide, and will decompose rapidly if exposed to light.

NOTE: USE TYPE II WATER AND HIGH-PURITY ACIDS FOR ALL DILUTIONS.

ICV1-0307

(D) ***CERTIFIED CONCENTRATIONS OF QATS ICV1, ICV5, AND ICV6 SOLUTIONS***

M3740
M3741
M3742
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ICV1-0307		
Element	**Concentration (µg/L) (after 10-fold dilution)**	**Concentration (µg/L) (after 50-fold dilution)**
Al	2521	504
Sb	994	199
As	999	200
Ba	497	99
Be	495	99
Cd	496	99
Ca	10026	2005
Cr	490	98
Co	499	100
Cu	492	98
Fe	5082	1016
Pb	1002	200
Mg	6074	1215
Mn	499	100
Ni	503	101
K	10021	2004
Se	1029	206
Ag	501	100
Na	10097	2019
Tl	1028	206
V	501	100
Zn	1025	205

ICV5-0508		ICV6-0400	
Element	**Concentration (µg/L) (after 100-fold dilution)**	**Analyte**	**Concentration (µg/L) (after 100-fold dilution)**
Hg	4.0	**CN^-**	99

M3758 R: 09/20/16 Ex: 09/13/19
O: 10/03/16

INORGANIC VENTURES
300 Technology Drive
Christiansburg, VA 24073 - USA
inorganicventures.com

tel: 800.669.6799 540.585.3030
fax: 540.585.3012
info@inorganicventures.com

CERTIFICATE OF ANALYSIS

1.0 ACCREDITATION / REGISTRATION

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ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	CHEM-QC-4
Lot Number:	K2-MEB651765
Matrix:	3% (v/v) HNO_3 3% (v/v) HF
Value / Analyte(s):	1 000 µg/mL ea: Boron, Molybdenum, Silicon, Tin, Titanium

Second Source: Whenever possible, this solution was manufactured from a second set of concentrates in our manufacturing facility.

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Boron, B	1 000 ± 6 µg/mL	Molybdenum, Mo	1 000 ± 4 µg/mL
Silicon, Si	1 000 ± 6 µg/mL	Tin, Sn	1 000 ± 5 µg/mL
Titanium, Ti	1 000 ± 6 µg/mL		

Certified Density: 1.033 g/mL (measured at 20 ± 1 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
B	ICP Assay	3107	110830
Mo	ICP Assay	3134	130418
Mo	Calculated		See Sec. 4.2
Si	ICP Assay	3150	071204
Si	Calculated		See Sec. 4.2
Sn	ICP Assay	3161a	070330
Ti	ICP Assay	3162a	060808
Ti	Calculated		See Sec. 4.2

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

M3759 R:09/20/16 Ex:09/13/19

INORGANIC VENTURES

CERTIFICATE OF ANALYSIS

300 Technology Drive
Christiansburg, VA 24073 - USA
inorganicventures.com

tel: 800.669.6799 · 540.585.3030
fax: 540.585.3012
info@inorganicventures.com

O: 10/03/16

1.0 ACCREDITATION / REGISTRATION

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ACCREDITED Testing Laboratory Certificate 883.01 — ACCREDITED Reference Material Producer Certificate-883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	CHEM-CLP-4
Lot Number:	K2-MEB651764
Matrix:	3% (v/v) HNO3 3% (v/v) HF
Value / Analyte(s):	1 000 µg/mL ea: Boron, Molybdenum, Silicon, Tin, Titanium

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Boron, B	1 000 ± 6 µg/mL	Molybdenum, Mo	1 000 ± 5 µg/mL
Silicon, Si	1 000 ± 6 µg/mL	Tin, Sn	1 000 ± 4 µg/mL
Titanium, Ti	1 000 ± 6 µg/mL		

Certified Density: 1.030 g/mL (measured at 20 ± 1 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
B	ICP Assay	3107	110830
Mo	ICP Assay	3134	130418
Si	ICP Assay	3150	130912
Sn	ICP Assay	3161a	070330
Sn	Calculated		See Sec. 4.2
Ti	ICP Assay	3162a	130925

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

M3760 R: 09/20/16 D: 10/03/16 Ex: 05/17/20

INORGANIC VENTURES
300 Technology Drive
Christiansburg, VA 24073 · USA
inorganicventures.com

CERTIFICATE OF ANALYSIS

tel: 800.669.6799 · 540.585.3030
fax: 540.585.3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO Guide 34, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01 ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGP10
Lot Number:	K2-P02069
Matrix:	H2O
Value / Analyte(s):	10 000 µg/mL ea: Phosphorus
Starting Material:	H3PO4
Starting Material Lot#:	1881
Starting Material Purity:	100.0000%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 9947 ± 31 µg/mL

Certified Density: 1.015 g/mL (measured at 20 ± 1 °C)

Assay Information:

Assay Method #1 **9968 ± 53 µg/mL**
ICP Assay NIST SRM 3139a Lot Number: 060717

Assay Method #2 **9943 ± 21 µg/mL**
Acidimetric NIST SRM 84L Lot Number: 84L

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

M3783 R: 11/18/16 Ex: 02/27/20
OP: 11/30/16

INORGANIC VENTURES
300 Technology Drive
Christiansburg, VA 24073 - USA
inorganicventures.com

CERTIFICATE OF ANALYSIS

tel: 800.669.6779 - 540.585.3030
fax: 540.585.3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO Guide 34, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (SAI Global File Number 010105).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGFE10
Lot Number:	K2-FE04057
Matrix:	5% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Iron
Starting Material:	Iron Metal
Starting Material Lot#:	2031
Starting Material Purity:	99.9970%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10 003 ± 26 µg/mL

Certified Density: 1.041 g/mL (measured at 20 ± 1 °C)

Assay Information:

Assay Method #1 **9998 ± 26 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

Assay Method #2 **10038 ± 66 µg/mL**
ICP Assay NIST SRM 3126a Lot Number: 140812

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

M3785, M3786 R: 11/18/16 Ex: 07/19/2020
DP: 11/30/16

INORGANIC VENTURES
300 Technology Drive
Christiansburg, VA 24073 · USA
inorganicventures.com

CERTIFICATE OF ANALYSIS

tel: 800.669.6799 · 540.585.3030
fax: 540.585.3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

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ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGBA1
Lot Number:	K2-BA650002
Matrix:	0.1% (v/v) HNO3
Value / Analyte(s):	1 000 µg/mL ea: Barium
Starting Material:	Ba(NO3)2
Starting Material Lot#:	1894
Starting Material Purity:	99.9986%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 999 ± 4 µg/mL

Certified Density: 1.000 g/mL (measured at 20 ± 1 °C)

Assay Information:

Assay Method #1 **1000 ± 4 µg/mL**
ICP Assay NIST SRM 3104a Lot Number: 140909

Assay Method #2 **999 ± 3 µg/mL**
Gravimetric NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

M3787 R: 11/18/16 Ex: 03/11/2020
OP: 11/30/16

INORGANIC VENTURES

CERTIFICATE OF ANALYSIS

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO Guide 34, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (SAI Global File Number 010105).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGB1
Lot Number:	K2-B02134
Matrix:	H2O
Value / Analyte(s):	1 000 µg/mL ea: Boron
Starting Material:	H3BO3
Starting Material Lot#:	1631
Starting Material Purity:	99.9998%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 1002 ± 6 µg/mL

Certified Density: 1.001 g/mL (measured at 20 ± 1 °C)

Assay Information:

Assay Method #1 **1003 ± 4 µg/mL**
ICP Assay NIST SRM 3107 Lot Number: 110830

Assay Method #2 **1000 ± 7 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

IV13792 R: 12/08/16
OP : 12/08/16

INORGANIC VENTURES

CERTIFICATE OF ANALYSIS

300 Technology Drive
Christiansburg, VA 24073 - USA
inorganicventures.com

Tel: 800.669.2799 • 540.585.3030
Fax: 540.585.3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

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ACCREDITED Testing Laboratory Certificate 883.01

ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGS10
Lot Number:	K2-S02040
Matrix:	H2O
Value / Analyte(s):	10 000 µg/mL ea: Sulfur
Starting Material:	H2SO4
Starting Material Lot#:	11478
Starting Material Purity:	100.0000%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10 048 ± 67 µg/mL

Certified Density: 1.018 g/mL (measured at 20 ± 1 °C)

Assay Information:

Assay Method #1 **10048 ± 21 µg/mL**
Acidimetric NIST SRM 84L Lot Number: 84L

Assay Method #2 **10052 ± 75 µg/mL**
ICP Assay NIST SRM 3154 Lot Number: 892205

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

M3812 R: 01/30/17 DP: 01/30/17

INORGANIC VENTURES

CERTIFICATE OF ANALYSIS

300 Technology Drive
Christiansburg, VA 24073 - USA
inorganicventures.com

tel: 800.669.6799 - 540.585.3030
fax: 540.585.3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

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ACCREDITED Testing Laboratory Certificate 883.01 ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGSE(4)1
Lot.Number:	J2-SE02058
Matrix:	2% (v/v) HNO3
Value / Analyte(s):	1 000 µg/mL ea: Se
Starting Material:	Se Shot
Starting Material Lot#:	1616
Starting Material Purity:	99.9995%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 1002 ± 4 µg/mL - weighted mean

Certified Density: 1.011 g/mL (measured at 20 ± 1 °C)

Assay Information:

Assay Method #1 **1004 ± 4 µg/mL**
ICP Assay NIST SRM 3149 Lot Number: 100901

Assay Method #2 **1000 ± 5 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

M38B R: 01/30/17
OP: 01/30/17

INORGANIC VENTURES
300 Technology Drive
Christiansburg, VA 24073 - USA
inorganicventures.com

CERTIFICATE OF ANALYSIS

tel: 800.669.6799 - 540.585.3030
fax: 540.585.3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

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ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGSI1
Lot Number:	J2-SI03059
Matrix:	tr. HNO3 tr. HF
Value / Analyte(s):	1 000 µg/mL ea: Silicon
Starting Material:	Fumed Silica
Starting Material Lot#:	1771
Starting Material Purity:	99.9931%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 1 000 ± 6 µg/mL

Certified Density: 1.003 g/mL (measured at 20 ± 1 °C)

Assay Information:

Assay Method #1 **1000 ± 5 µg/mL**
ICP Assay NIST SRM 3150 Lot Number: 130912

Assay Method #2 **1000 ± 7 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

M3814 R: 01/30/17
OP: 01/30/17

INORGANIC VENTURES
300 Technology Drive
Christiansburg, VA 24073 - USA
inorganicventures.com

CERTIFICATE OF ANALYSIS

tel: 800.669.6799 - 540.585.3030
fax: 540.585.3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

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ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGCD1
Lot Number:	K2-CD650193
Matrix:	3% (v/v) HNO3
Value / Analyte(s):	1 000 µg/mL ea: Cadmium
Starting Material:	Cd shot
Starting Material Lot#:	1816
Starting Material Purity:	99.9999%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 999 ± 5 µg/mL

Certified Density: 1.015 g/mL (measured at 20 ± 1 °C)

Assay Information:

Assay Method #1 **999 ± 4 µg/mL**
ICP Assay NIST SRM 3108 Lot Number: 130116

Assay Method #2 **999 ± 3 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

M3832
M3833
M3834.

Exp: 03/15/17

INORGANIC VENTURES
300 Technology Drive
Christiansburg, VA 24073 · USA
inorganicventures.com

CERTIFICATE OF ANALYSIS

tel: 800.669.6799 · 540.585.3030
fax: 540.585.3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO Guide 34, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	6020ISS
Lot Number:	K2-MEB651921
Matrix:	7% (v/v) HNO3
Value / Analyte(s):	10 µg/mL ea:

Bismuth, Holmium, Indium,
6-Lithium, Rhodium, Scandium,
Terbium, Yttrium

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
6-Lithium, Li6	10.00 ± 0.04 µg/mL	Bismuth, Bi	10.00 ± 0.04 µg/mL
Holmium, Ho	10.00 ± 0.05 µg/mL	Indium, In	10.00 ± 0.05 µg/mL
Rhodium, Rh	10.00 ± 0.06 µg/mL	Scandium, Sc	10.00 ± 0.04 µg/mL
Terbium, Tb	10.00 ± 0.04 µg/mL	Yttrium, Y	10.00 ± 0.04 µg/mL

Certified Density: 1.035 g/mL (measured at 20 ± 1 °C)

Assay Information:

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

M 3843
Rec:- 03/29/17
Exp:- 10/11/21

Material No.: 9530-33
Batch No.: 0000162118
Manufactured Date: 2016/10/12
Retest Date: 2021/10/11

Certificate of Analysis

Test	Specification	Result
ACS - Assay (as HCl) (by acid-base titrn)	36.5 - 38.0 %	37.7
ACS - Color (APHA)	<= 10	5
ACS - Residue after Ignition	<= 3 ppm	< 1
ACS - Specific Gravity at 60°/60°F	1.185 - 1.192	1.191
ACS - Bromide (Br)	<= 0.005 %	< 0.005
ACS - Extractable Organic Substances	<= 5 ppm	< 1
ACS - Free Chlorine (as Cl_2)	<= 0.5 ppm	< 0.5
Phosphate (PO_4)	<= 0.05 ppm	< 0.03
Sulfate (SO_4)	<= 0.5 ppm	< 0.3
Sulfite (SO_3)	<= 0.8 ppm	0.3
Ammonium (NH_4)	<= 3 ppm	< 1
Trace Impurities - Arsenic (As)	<= 0.010 ppm	< 0.003
Trace Impurities - Aluminum (Al)	<= 10.0 ppb	1.3
Arsenic and Antimony (as As)	<= 5 ppb	< 3
Trace Impurities - Barium (Ba)	<= 1.0 ppb	< 0.2
Trace Impurities - Beryllium (Be)	<= 1.0 ppb	< 0.2
Trace Impurities - Bismuth (Bi)	<= 10.0 ppb	< 1.0
Trace Impurities - Boron (B)	<= 20.0 ppb	2.2
Trace Impurities - Cadmium (Cd)	<= 1.0 ppb	< 0.3
Trace Impurities - Calcium (Ca)	<= 50.0 ppb	37.0
Trace Impurities - Chromium (Cr)	<= 1.0 ppb	< 0.4
Trace Impurities - Cobalt (Co)	<= 1.0 ppb	< 0.3
Trace Impurities - Copper (Cu)	<= 1.0 ppb	< 0.1
Trace Impurities - Gallium (Ga)	<= 1.0 ppb	< 0.2

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.573.2600
Avantor Performance Materials, LLC.
3477 Corporate Parkway. Center Valley, PA 18034. U.S.A. Phone: 610.573.2600 . Fax: 610.573.2610

Material No.: 9530-33
Batch No.: 0000162118

Test	Specification	Result
Trace Impurities - Germanium (Ge)	<= 3.0 ppb	< 2.0
Trace Impurities - Gold (Au)	<= 4.0 ppb	< 0.2
Heavy Metals (as Pb)	<= 100 ppb	< 50
Trace Impurities - Iron (Fe)	<= 15.0 ppb	<1
Trace Impurities - Lead (Pb)	<= 1.0 ppb	< 0.5
Trace Impurities - Lithium (Li)	<= 1.0 ppb	< 0.2
Trace Impurities - Magnesium (Mg)	<= 10.0 ppb	1.0
Trace Impurities - Manganese (Mn)	<= 1.0 ppb	< 0.4
Trace Impurities - Mercury (Hg)	<= 0.5 ppb	< 0.1
Trace Impurities - Molybdenum (Mo)	<= 10.0 ppb	< 3.0
Trace Impurities - Nickel (Ni)	<= 4.0 ppb	< 0.3
Trace Impurities - Niobium (Nb)	<= 1.0 ppb	< 0.2
Trace Impurities - Potassium (K)	<= 9.0 ppb	< 2.0
Trace Impurities - Selenium (Se), For Information Only	ppb	1.0
Trace Impurities - Silicon (Si)	<= 100.0 ppb	0.4
Trace Impurities - Silver (Ag)	<= 1.0 ppb	< 0.3
Trace Impurities - Sodium (Na)	<= 100.0 ppb	0.8
Trace Impurities - Strontium (Sr)	<= 1.0 ppb	< 0.2
Trace Impurities - Tantalum (Ta)	<= 1.0 ppb	< 0.9
Trace Impurities - Thallium (Tl)	<= 5.0 ppb	< 2.0
Trace Impurities - Tin (Sn)	<= 5.0 ppb	< 0.8
Trace Impurities - Titanium (Ti)	<= 1.0 ppb	< 0.2
Trace Impurities - Vanadium (V)	<= 1.0 ppb	< 0.2
Trace Impurities - Zinc (Zn)	<= 5.0 ppb	< 0.3
Trace Impurities - Zirconium (Zr)	<= 1.0 ppb	< 0.1

For Laboratory, Research or Manufacturing Use
Product Information (not specifications):
Appearance (clear, fuming liquid)
Meets ACS Specifications

Country of Origin: US
Packaging Site: Phillipsburg Mfg Ctr & DC

ISO
Phillipsburg, NJ 9001:2008, 14001:2004, FSSC 22000
Paris, KY 9001:2008
Mexico City, Mexico 9001:2008
Deventer, The Netherlands 9001:2008, 14001:2004, 13485:2003
Gliwice, Poland 9001:2008, 13485:2012
Selangor, Malaysia 9001:2008
Dehradun, India, 9001:2008, 14001:2004, 13485:2003
Mumbai, India, 9001:2008
Panoli, India 9001:2008

James T Ethier
Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.573.2600
Avantor Performance Materials, LLC.
3477 Corporate Parkway. Center Valley, PA 18034. U.S.A. Phone: 610.573.2600 . Fax: 610.573.2610

Nitric Acid, 69.0–70.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

M 3844
Rec 03/29/17
Exp :- 12/01/21

Part of AVANTOR™ PERFORMANCE MATERIALS

Material No.: 9598-34
Batch No.: 0000162027
Manufactured Date: 2016/12/02
Retest Date: 2021/12/01

Certificate of Analysis

Test	Specification	Result
ACS – Assay (HNO_3)	69.0 – 70.0 %	69.5
Appearance	Passes Test	PT
ACS – Color (APHA)	<= 10	5
ACS – Residue after Ignition	<= 2 ppm	1
ACS – Specific Gravity at 60°/60°F	1.416 – 1.420	1.420
Chloride (Cl)	<= 0.04 ppm	< 0.03
Phosphate (PO_4)	<= 0.1 ppm	<0.01
Sulfate (SO_4)	<= 0.4 ppm	< 0.2
Trace Impurities – Aluminum (Al)	<= 30.0 ppb	0.7
Arsenic and Antimony (as As)	<= 5 ppb	< 2
Trace Impurities – Barium (Ba)	<= 1.0 ppb	< 0.2
Trace Impurities – Beryllium (Be)	<= 1.0 ppb	< 0.2
Trace Impurities – Bismuth (Bi)	<= 1.0 ppb	< 1.0
Trace Impurities – Boron (B)	<= 4.0 ppb	< 0.7
Trace Impurities – Cadmium (Cd)	<= 1.0 ppb	< 0.3
Trace Impurities – Calcium (Ca)	<= 50.0 ppb	2.0
Trace Impurities – Chromium (Cr)	<= 10.0 ppb	1.0
Trace Impurities – Cobalt (Co)	<= 1.0 ppb	< 0.3
Trace Impurities – Copper (Cu)	<= 1.0 ppb	< 0.1
Trace Impurities – Gallium (Ga)	<= 20.0 ppb	< 0.2
Trace Impurities – Germanium (Ge)	<= 4.0 ppb	< 2.0
Trace Impurities – Gold (Au)	<= 4.0 ppb	< 0.2
Heavy Metals (as Pb)	<= 100 ppb	< 50
Trace Impurities – Iron (Fe)	<= 10.0 ppb	0.9

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Avantor Performance Materials, LLC.
3477 Corporate Parkway. Center Valley, PA 18034. U.S.A. Phone: 610.573.2600 . Fax: 610.573.2610

Material No.: 9598-34
Batch No.: 0000162027

Test	Specification	Result
Trace Impurities - Lead (Pb)	<= 0.5 ppb	< 0.5
Trace Impurities - Lithium (Li)	<= 1.0 ppb	< 0.2
Trace Impurities - Magnesium (Mg)	<= 7.0 ppb	0.2
Trace Impurities - Manganese (Mn)	<= 1.0 ppb	< 0.4
Trace Impurities - Mercury (Hg)	<= 0.5 ppb	< 0.1
Trace Impurities - Molybdenum (Mo)	<= 5.0 ppb	< 3.0
Trace Impurities - Nickel (Ni)	<= 1.0 ppb	< 0.3
Trace Impurities - Niobium (Nb)	<= 1.0 ppb	0.3
Trace Impurities - Potassium (K)	<= 5.0 ppb	< 2.0
Trace Impurities - Silicon (Si)	<= 20.0 ppb	1.0
Trace Impurities - Silver (Ag)	<= 1.0 ppb	0.8
Trace Impurities - Sodium (Na)	<= 200.0 ppb	1.0
Trace Impurities - Strontium (Sr)	<= 1.0 ppb	< 0.2
Trace Impurities - Tantalum (Ta)	<= 2.0 ppb	< 0.9
Trace Impurities - Thallium (Tl)	<= 5.0 ppb	2.0
Trace Impurities - Tin (Sn)	<= 5.0 ppb	< 0.8
Trace Impurities - Vanadium (V)	<= 1.0 ppb	< 0.2
Trace Impurities - Zinc (Zn)	<= 5.0 ppb	0.3
Trace Impurities - Zirconium (Zr)	<= 1.0 ppb	0.2

For Laboratory, Research or Manufacturing Use
Meets ACS Specifications

Country of Origin: US
Packaging Site: Phillipsburg Mfg Ctr & DC

ISO
Phillipsburg, NJ 9001:2008, 14001:2004, FSSC 22000
Paris, KY 9001:2008
Mexico City, Mexico 9001:2008
Deventer, The Netherlands 9001:2008, 14001:2004, 13485:2003
Gliwice, Poland 9001:2008, 13485:2012
Selangor, Malaysia 9001:2008
Dehradun, India, 9001:2008, 14001:2004, 13485:2003
Mumbai, India, 9001:2008
Panoli, India 9001:2008

James Ethier
Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.573.2600
Avantor Performance Materials, LLC.
3477 Corporate Parkway. Center Valley, PA 18034. U.S.A. Phone: 610.573.2600 . Fax: 610.573.2610

Nitric Acid, 69.0–70.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

M3847
Rec: 04/05/17
Exp: ~~12/01/21~~ 12/01/21

Material No.: 9598-34
Batch No.: 0000162027
Manufactured Date: 2016/12/02
Retest Date: 2021/12/01

Certificate of Analysis

Test	Specification	Result
ACS – Assay (HNO_3)	69.0 – 70.0 %	69.5
Appearance	Passes Test	PT
ACS – Color (APHA)	<= 10	5
ACS – Residue after Ignition	<= 2 ppm	1
ACS – Specific Gravity at 60°/60°F	1.416 – 1.420	1.420
Chloride (Cl)	<= 0.04 ppm	< 0.03
Phosphate (PO_4)	<= 0.1 ppm	<0.01
Sulfate (SO_4)	<= 0.4 ppm	< 0.2
Trace Impurities – Aluminum (Al)	<= 30.0 ppb	0.7
Arsenic and Antimony (as As)	<= 5 ppb	< 2
Trace Impurities – Barium (Ba)	<= 1.0 ppb	< 0.2
Trace Impurities – Beryllium (Be)	<= 1.0 ppb	< 0.2
Trace Impurities – Bismuth (Bi)	<= 1.0 ppb	< 1.0
Trace Impurities – Boron (B)	<= 4.0 ppb	< 0.7
Trace Impurities – Cadmium (Cd)	<= 1.0 ppb	< 0.3
Trace Impurities – Calcium (Ca)	<= 50.0 ppb	2.0
Trace Impurities – Chromium (Cr)	<= 10.0 ppb	1.0
Trace Impurities – Cobalt (Co)	<= 1.0 ppb	< 0.3
Trace Impurities – Copper (Cu)	<= 1.0 ppb	< 0.1
Trace Impurities – Gallium (Ga)	<= 20.0 ppb	< 0.2
Trace Impurities – Germanium (Ge)	<= 4.0 ppb	< 2.0
Trace Impurities – Gold (Au)	<= 4.0 ppb	< 0.2
Heavy Metals (as Pb)	<= 100 ppb	< 50
Trace Impurities – Iron (Fe)	<= 10.0 ppb	0.9

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3477 Corporate Parkway. Center Valley, PA 18034. U.S.A. Phone: 610.573.2600 . Fax: 610.573.2610

Material No.: 9598-34
Batch No.: 0000162027

Test	Specification	Result
Trace Impurities - Lead (Pb)	<= 0.5 ppb	< 0.5
Trace Impurities - Lithium (Li)	<= 1.0 ppb	< 0.2
Trace Impurities - Magnesium (Mg)	<= 7.0 ppb	0.2
Trace Impurities - Manganese (Mn)	<= 1.0 ppb	< 0.4
Trace Impurities - Mercury (Hg)	<= 0.5 ppb	< 0.1
Trace Impurities - Molybdenum (Mo)	<= 5.0 ppb	< 3.0
Trace Impurities - Nickel (Ni)	<= 1.0 ppb	< 0.3
Trace Impurities - Niobium (Nb)	<= 1.0 ppb	0.3
Trace Impurities - Potassium (K)	<= 5.0 ppb	< 2.0
Trace Impurities - Silicon (Si)	<= 20.0 ppb	1.0
Trace Impurities - Silver (Ag)	<= 1.0 ppb	0.8
Trace Impurities - Sodium (Na)	<= 200.0 ppb	1.0
Trace Impurities - Strontium (Sr)	<= 1.0 ppb	< 0.2
Trace Impurities - Tantalum (Ta)	<= 2.0 ppb	< 0.9
Trace Impurities - Thallium (Tl)	<= 5.0 ppb	2.0
Trace Impurities - Tin (Sn)	<= 5.0 ppb	< 0.8
Trace Impurities - Vanadium (V)	<= 1.0 ppb	< 0.2
Trace Impurities - Zinc (Zn)	<= 5.0 ppb	0.3
Trace Impurities - Zirconium (Zr)	<= 1.0 ppb	0.2

For Laboratory, Research or Manufacturing Use
Meets ACS Specifications

Country of Origin: US
Packaging Site: Phillipsburg Mfg Ctr & DC

ISO
Phillipsburg, NJ 9001:2008, 14001:2004, FSSC 22000
Paris, KY 9001:2008
Mexico City, Mexico 9001:2008
Deventer, The Netherlands 9001:2008, 14001:2004, 13485:2003
Gliwice, Poland 9001:2008, 13485:2012
Selangor, Malaysia 9001:2008
Dehradun, India, 9001:2008, 14001:2004, 13485:2003
Mumbai, India, 9001:2008
Panoli, India 9001:2008

James Ethier
Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.573.2600
Avantor Performance Materials, LLC.
3477 Corporate Parkway. Center Valley, PA 18034. U.S.A. Phone: 610.573.2600 . Fax: 610.573.2610

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ISO 9001 QS Registered
ISO 17025-34-35-43 Accredited
Scopes: http://AbsoluteStandards.com

~~M3475~~ M3470

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:		
Part Number:	**57038**	C471305	Nitric Acid		
Lot Number:	**071415**				
Description:	**Strontium (Sr)**	2.0%	40.0 (mL)	Nitric Acid	
Expiration Date:	071418				
	Storage: 20 °C				
Nominal Concentration (µg/mL):	**1000**				
		5E-05	Balance Uncertainty		
Volume shown below was diluted to (mL):	2000.24	0.148	Flask Uncertainty		

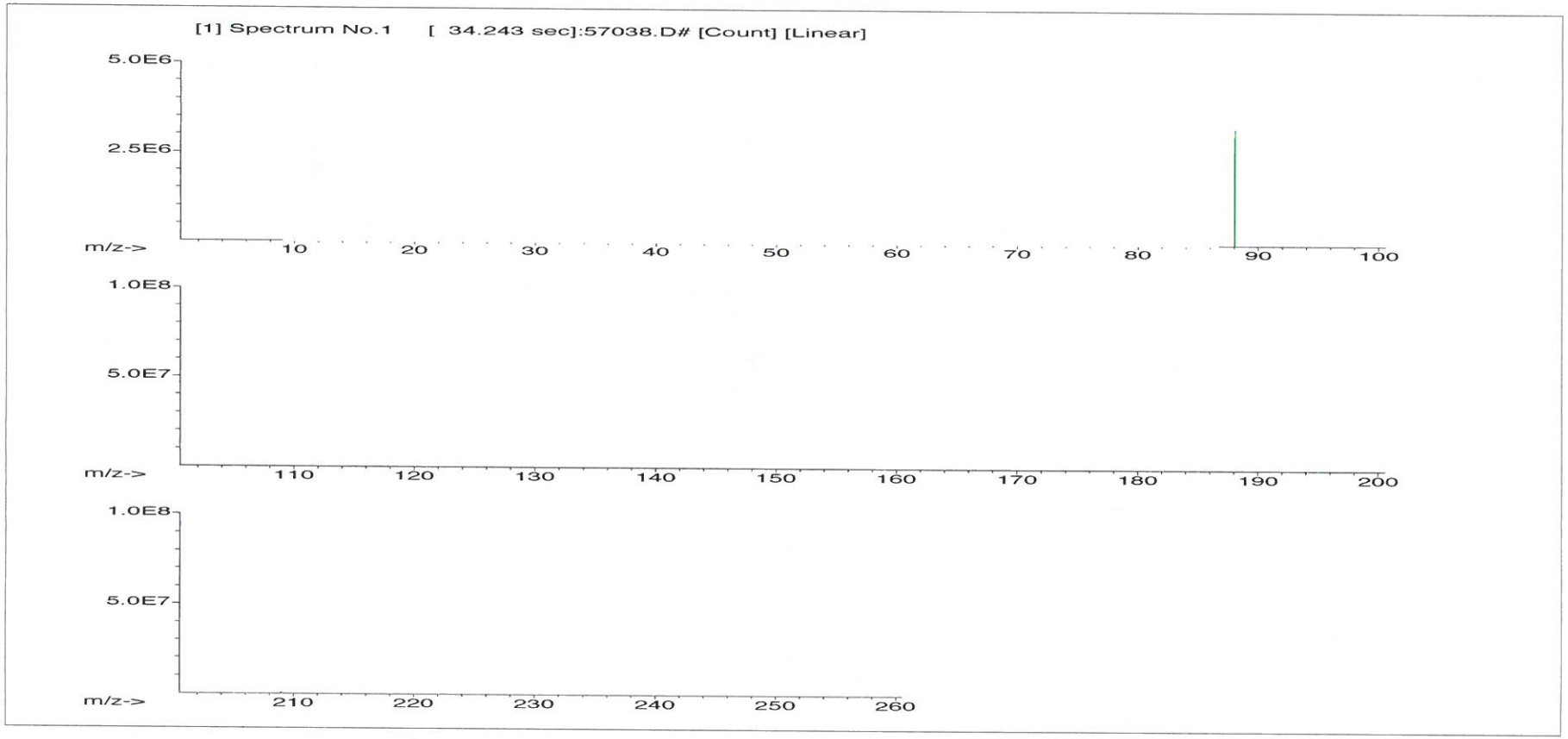
Gabriel Helland

Formulated By:	Gabriel Helland	071415

Pedro Rentas

Reviewed By:	Pedro L. Rentas	071415

Compound	Part Number	Lot Number	Dilution Factor	Initial Volume	Uncertainty Pipette	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty (+/-)	MSDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Strontium nitrate (Sr)	58138	032014	0.1000	200.0	0.013	10001.3	**1000.0**	0.00212	10042-76-9	N/A	orl-rat 2750mg/kg	3153a



602 of 606
I2745-METALS

SHIPPING DOCUMENTS

CHEMTECH
CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 Fax (908) 789-8922
www.chemtech.net

CHEMTECH PROJECT NO.
QUOTE NO. I2745
COC Number 040688

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: LiRO Engineers
ADDRESS: 690 Delaware Ave.
CITY: Buffalo STATE: NY ZIP: 14209
ATTENTION: ~~Jon~~ Jon Williams
PHONE: 716-882-5476 FAX: —

CLIENT PROJECT INFORMATION

PROJECT NAME: Kingsley park
PROJECT NO.: LOCATION:
PROJECT MANAGER: Steve Frank
e-mail: williamsj@liro.com
PHONE: same FAX: —

CLIENT BILLING INFORMATION

BILL TO: PO#:
ADDRESS: SAME
CITY: STATE: ZIP:
ATTENTION: PHONE:

DATA TURNAROUND INFORMATION

FAX: 10 DAYS *
HARD COPY: 10 DAYS *
EDD: 10 DAYS *
PREAPPROVED TAT: ☐ YES ☐ NO
* STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

☐ LEVEL 1: Results only ☐ Others
☐ LEVEL 2: Results + QC
☐ LEVEL 3: Results (plus results raw data) + QC
☒ LEVEL 4: Results + QC (all raw data)
☒ EDD Format: NYSDEC-EQUIS

ANALYSIS

1	2	3	4	5	6	7	8	9
Total Arsenic	Cadmium							

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1 E/B	PRESERVATIVES 2 2/B	3	4	5	6	7	8	9	COMMENTS
1.	DIK1-GW-MW-01	GW		X	4/17/17	1145	1	X	X								← Specify Preservatives
2.	DIK1-GW-MW-02	GW		X	"	1317	1	X	X								A-HCl B-HNO_3
3.	DIK1-GW-MW-10	GW		X	"	—	1	X	X								C-H_2SO_4 D-NaOH
4.																	E-ICE F-Other
5.																	
6.																	
7.																	
8.																	
9.																	
10.																	

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1.	4/17/17 1600	1.
RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:
2.		2.
RELINQUISHED BY:	DATE/TIME: 7:00 4-18-17	RECEIVED FOR LAB BY:
3.		3.

Conditions of bottles or coolers at receipt: ☐ Compliant ☐ Non Compliant Cooler Temp. 4.2
MeOH extraction requires an additional 4 oz jar for percent solid.
Ice in Cooler?: yes
Comments: NYSDEC ASP-B Deliverables

Page 1 of 1

SHIPPED VIA: CLIENT: ☐ HAND DELIVERED ☒ OVERNIGHT
CHEMTECH: ☐ PICKED UP ☐ OVERNIGHT
Shipment Complete: ☐ YES ☐ NO

Revision 8/2007

WHITE - CHEMTECH COPY FOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY



After printing this label:
1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.
Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com.FedEx will not be responsible for any claim in excess of $100 per package, whether the result of loss, damage, delay, non-delivery,misdelivery,or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim.Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental,consequential, or special is limited to the greater of $100 or the authorized declared value. Recovery cannot exceed actual documented loss.Maximum for items of extraordinary value is $1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our ServiceGuide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	EP-W-14-030
Connecticut	PH-0649
DOD ELAP (L-A-B)	L2219
Florida	E87935
Maine	2012025
Maryland	296
New Hampshire	255413
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	P330-13-00380
Texas	T104704488-13-5

SAMPLE COLLECTION FIELD SHEET

Date Submitted: 09/13/2016

IW Sample No.: 17-00140
Investigator: MS

Industry No.: BU216 BUFFALO - KINGSLEY

Address: 2-88 KINGSLEY STREET BUFFALO

Sample Point Number: 001

Type of Sample: GRAB

Sample Point Description:

% of Flow: 100.00

Flow Measuring Method:
Total Flow: 0

Installation Data

Date & Time: 09/13/2016 09:00:00
Crew: CM-BN
Sample Interval: 15 MINUTE
Preservation Used: ICE
Type of Bottle: GLASS

Collection Data

Date & Time: 09/13/2016 09:00:00
Crew: CM-BN
pH: 6.0
Temperature: 12C
Observation: SLIGHTLY CLOUDY BROWN

CHAIN OF CUSTODY

Sampler's Signature: _____

Sample No.	Location	Date	Time	Type	#Containers
_____	_____	_____	_____	_____	_____

Relinquished by: _____ Date: _____ Time: _____
Representing: _____
Received by: _____ Date: _____ Time: _____
Representing: _____

MONITORING REQUEST

Lab No.: 009 Lab Name: Alpha Analytical

Sample Date	Pol. Code	Pollutant Description	M/U	Results
09/13/2016	F36	BIS(2-ETHYLHEXYL)PHTHALAT	MicroGram	0
09/13/2016	M02	ARSENIC	MilliGram	0.026
09/13/2016	M04	CADMIUM	MilliGram	0.038
09/13/2016	N06	pH	Standard	6.0
09/13/2016	M81	BARIUM	MilliGram	0.221

SAMPLE COLLECTION FIELD SHEET

Date Submitted: 09/17/2015

IW Sample No.: 16-00070
Investigator: MS

Industry No.: BU216 BUFFALO - KINGSLEY

Address: 2-88 KINGSLEY STREET BUFFALO

Sample Point Number: 001

Type of Sample: GRAB

Sample Point Description:

% of Flow: 100.00

Flow Measuring Method:
Total Flow: 0

Installation Data

Date & Time:
Crew: MS-AA
Sample Interval: 15 MINUTE
Preservation Used: ICE
Type of Bottle: GLASS

Collection Data

Date & Time: 09/17/2015 09:00:00
Crew: MS-AA
pH: 7.0
Temperature: 10C
Observation: CLEAR COLORLESS

CHAIN OF CUSTODY

Sampler's Signature: _____

Sample No.	Location	Date	Time	Type	#Containers

Relinquished by: _____ Date: _____ Time: _____
Representing: _____
Received by: _____ Date: _____ Time: _____
Representing: _____

MONITORING REQUEST

Lab No.: 008 Lab Name: Alpha Analytical

Sample Date	Pol. Code	Pollutant Description	M/U	Results
09/17/2015	F36	BIS(2-ETHYLHEXYL)PHTHALAT	MicroGram	0
09/17/2015	M81	BARIUM	MilliGram	0.026
09/17/2015	M04	CADMIUM	MilliGram	0
09/17/2015	M02	ARSENIC	MilliGram	0

SAMPLE COLLECTION FIELD SHEET

Date Submitted: 09/17/2014

IW Sample No.: 15-00099
Investigator: MS

Industry No.: BU216 BUFFALO - KINGSLEY

Address: 2-88 KINGSLEY STREET BUFFALO

Sample Point Number: 001

Type of Sample: GRAB

Sample Point Description:

% of Flow: 100.00

Flow Measuring Method:
Total Flow: 0

Installation Data

Date & Time: 09:00:00
Crew: MS-AA
Sample Interval: 15 MINUTE
Preservation Used: ICE
Type of Bottle: GLASS

Collection Data

Date & Time: 09/17/2014 09:00:00
Crew: MS-AA
pH: 7.0
Temperature: 9C
Observation: CLEAR COLORLESS

CHAIN OF CUSTODY

Sampler's Signature: _____

Sample No.	Location	Date	Time	Type	#Containers

Relinquished by: _____ Date: _____ Time: _____
Representing: _____
Received by: _____ Date: _____ Time: _____
Representing: _____

MONITORING REQUEST

Lab No.: 006 Lab Name: ISLECHEM LLC

Sample Date	Pol. Code	Pollutant Description	M/U	Results
09/17/2014	F36	BIS(2-ETHYLHEXYL)PHTHALAT	MicroGram	0
09/17/2014	M81	BARIUM	MilliGram	0.024
09/17/2014	M04	CADMIUM	MilliGram	0
09/17/2014	M02	ARSENIC	MilliGram	0

SAMPLE COLLECTION FIELD SHEET

Date Submitted: 08/28/2013

IW Sample No.: 14-00068
Investigator: MS

Industry No.: BU216 BUFFALO - KINGSLEY

Address: 2-88 KINGSLEY STREET BUFFALO

Sample Point Number: 001

Type of Sample: GRAB

Sample Point Description:

% of Flow: 100.00

Flow Measuring Method:
Total Flow: 0

Installation Data

Date & Time: 09:00:00
Crew: MS-AA
Sample Interval: BEG-MID-END
Preservation Used: ICE
Type of Bottle: GLASS

Collection Data

Date & Time: 08/28/2013 09:00:00
Crew: MS-AA
pH: 7.0
Temperature: 12C
Observation: CLEAR COLORLESS

CHAIN OF CUSTODY

Sampler's Signature: _____

Sample No.	Location	Date	Time	Type	#Containers

Relinquished by: _____ Date: _____ Time: _____
Representing: _____
Received by: _____ Date: _____ Time: _____
Representing: _____

MONITORING REQUEST

Lab No.: 005 Lab Name: ISLECHEM LLC

Sample Date	Pol. Code	Pollutant Description	M/U	Results
08/28/2013	D25	625 SCAN (1625)(8250,8270	MicroGram	0
08/28/2013	M81	BARIUM	MilliGram	0.023
08/28/2013	M04	CADMIUM	MilliGram	0
08/28/2013	M02	ARSENIC	MilliGram	0

SAMPLE COLLECTION FIELD SHEET

Date Submitted: 08/21/2012

IW Sample No.: 13-00082
Investigator: MS

Industry No.: BU216 BUFFALO - KINGSLEY

Address: 2-88 KINGSLEY STREET BUFFALO

Sample Point Number: 001

Type of Sample: GRAB

Sample Point Description:

% of Flow: 100.00

Flow Measuring Method:
Total Flow: 0

Installation Data

Date & Time: 09:00:00
Crew: MS-AA
Sample Interval: BEG-MID-END
Preservation Used: ICE
Type of Bottle: GLASS

Collection Data

Date & Time: 08/21/2012 09:00:00
Crew: MS-AA
pH: 7.0
Temperature: 12C
Observation: CLEAR COLORLESS

CHAIN OF CUSTODY

Sampler's Signature: _____

Sample No.	Location	Date	Time	Type	#Containers

Relinquished by: _____ Date: _____ Time: _____
Representing: _____
Received by: _____ Date: _____ Time: _____
Representing: _____

MONITORING REQUEST

Lab No.: 004 Lab Name: ISLECHEM LLC

Sample Date	Pol. Code	Pollutant Description	M/U	Results
08/21/2012	D25	625 SCAN (1625)(8250,8270	MicroGram	0
08/21/2012	M02	ARSENIC	MilliGram	0
08/21/2012	N06	pH	Standard	7.0
08/21/2012	M81	BARIUM	MilliGram	0.018
08/21/2012	M04	CADMIUM	MilliGram	0

ALPHA ANALYTICAL

ANALYTICAL REPORT

Lab Number:	L1711651
Client:	Buffalo Sewer Authority Foot of West Ferry St. 90 West Ferry St. Buffalo, NY 14213-1799
ATTN:	Mike Szilagyi
Phone:	(716) 851-4664
Project Name:	BU216/17-00384
Project Number:	17-00384
Report Date:	04/25/17

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), NJ NELAP (MA935), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-14-00197).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: BU216/17-00384
Project Number: 17-00384

Lab Number: L1711651
Report Date: 04/25/17

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1711651-01	BU216/17-00384	WATER	Not Specified	04/13/17 09:00	04/13/17

Project Name:	BU216/17-00384	**Lab Number:**	L1711651
Project Number:	17-00384	**Report Date:**	04/25/17

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: BU216/17-00384 **Lab Number:** L1711651
Project Number: 17-00384 **Report Date:** 04/25/17

Case Narrative (continued)

Report Submission

Please note that this report format does not contain typical QC parameters that were performed with these samples. As such, any QC outliers or non-conformances can only be reviewed by accessing your Alpha Customer Center account at www.alphalab.com and building a Data Usability table (format 11) in our Data Merger tool.

Semivolatile Organics

L1711651-01: The sample has an elevated detection limit due to the dilution required by the elevated concentrations of non-target compounds in the sample.

WG995756: A Matrix Spike was prepared with the sample batch, however, the native sample was not available for reporting; therefore, the matrix spike results could not be reported.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Melissa Cripps Melissa Cripps

Title: Technical Director/Representative Date: 04/25/17

SEMIVOLATILES

Project Name: BU216/17-00384 **Lab Number:** L1711651

Project Number: 17-00384 **Report Date:** 04/25/17

SAMPLE RESULTS

Lab ID:	L1711651-01	D	Date Collected:	04/13/17 09:00
Client ID:	BU216/17-00384		Date Received:	04/13/17
Sample Location:	Not Specified		Field Prep:	Not Specified
Matrix:	Water		Extraction Method:	EPA 625
Analytical Method:	5,625		Extraction Date:	04/19/17 18:41
Analytical Date:	04/20/17 17:07			
Analyst:	ALS			

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Bis(2-ethylhexyl)phthalate	ND		ug/l	6.0	--	2

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	22		21-120
Phenol-d6	17		10-120
Nitrobenzene-d5	40		23-120
2-Fluorobiphenyl	43		15-120
2,4,6-Tribromophenol	49		10-120
4-Terphenyl-d14	45		33-120

METALS

Project Name: BU216/17-00384 **Lab Number:** L1711651

Project Number: 17-00384 **Report Date:** 04/25/17

SAMPLE RESULTS

Lab ID: L1711651-01 Date Collected: 04/13/17 09:00

Client ID: BU216/17-00384 Date Received: 04/13/17

Sample Location: Not Specified Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	ND		mg/l	0.005	--	1	04/19/17 10:10	04/20/17 14:51	EPA 3005A	19,200.7	PS
Barium, Total	0.050		mg/l	0.010	--	1	04/19/17 10:10	04/20/17 14:51	EPA 3005A	19,200.7	PS
Cadmium, Total	0.007		mg/l	0.005	--	1	04/19/17 10:10	04/20/17 14:51	EPA 3005A	19,200.7	PS

Project Name: BU216/17-00384
Project Number: 17-00384

Lab Number: L1711651
Report Date: 04/25/17

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information Custody Seal

Cooler	
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1711651-01A	Plastic 250ml HNO3 preserved	A	<2	2.7	Y	Absent	BA-UI(180),CD-UI(180),AS-UI(180)
L1711651-01B	Amber 1000ml Na2S2O3	A	7	2.7	Y	Absent	625(7)
L1711651-01C	Amber 1000ml Na2S2O3	A	7	2.7	Y	Absent	625(7)

*Values in parentheses indicate holding time in days

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GLOSSARY

Acronyms

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A - Spectra identified as "Aldol Condensation Product".

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the

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Data Qualifiers

reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the reporting limit (RL) for the sample.

Report Format: DU Report - No QC

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REFERENCES

5 Methods for the Organic Chemical Analysis of Municipal and Industrial Wastewater. Appendix A, Part 136, 40 CFR (Code of Federal Regulations).

19 Inductively Coupled Plasma Atomic Emission Spectrometric Method for Trace Element Analysis of Water and Wastes. Appendix C, Part 136, 40 CFR (Code of Federal Regulations). July 1, 1999 edition.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624: m/p-xylene, o-xylene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
EPA 300: DW: Bromide
EPA 6860: NPW and SCM: Perchlorate
EPA 9010: NPW and SCM: Amenable Cyanide Distillation
EPA 9012B: NPW: Total Cyanide
EPA 9050A: NPW: Specific Conductance
SM3500: NPW: Ferrous Iron
SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.
SM5310C: DW: Dissolved Organic Carbon

Mansfield Facility
SM 2540D: TSS
EPA 3005A NPW
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **SM4500NO3-F, EPA 353.2**: Nitrate-N, **EPA 351.1, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D.**
EPA 624: Volatile Halocarbons & Aromatics,
EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E.**

Mansfield Facility:

Drinking Water
EPA 200.7: Ba, Be, Cd, Cr, Cu, Ni, Na, Ca. **EPA 200.8:** Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, TL. **EPA 245.1** Hg.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

SAMPLE COLLECTION FIELD SHEET

Date Submitted: 04/13/2017

IW Sample No.: 17-00384
Investigator: MS

Industry No.: BU216

Sample Point Number: 001

Type of Sample: GRAB

Sample Point Description:

Flow Measuring Method:
Total Flow: 0

Installation Data

Date & Time:
Crew: CM-BN
Sample Interval: BEG-MID-END
Preservation Used: ICE
Type of Bottle: PLASTIC/GLASS

Collection Data

Date & Time: 04/13/2017 09:00:00
Crew: CM-BN
pH: 9.0
Temperature: 11C
Observation: Cloudy

CHAIN OF CUSTODY

Sampler's Signature: C. Maynard

Sample No.	Location	Date	Time	Type	#Containers
17-00384	BSA	04/13/17	09:00	Grab	3

Relinquished by: C. Maynard Date: 04/13/17 Time: 11:00
Representing: BSA
Received by: [signature] Date: 4/13/17 Time: 1430
Representing: AAL
4/14/17 0935

MONITORING REQUEST

Lab No.: 009 Lab Name: Alpha Analytical

Sample Date	Pol. Code	Pollutant Description	M/U	Results
04/13/2017	M02	ARSENIC	MilliGram	
04/13/2017	F36	BIS(2-ETHYLHEXYL)PHTHALAT	MicroGram	
04/13/2017	M81	BARIUM	MilliGram	
04/13/2017	M04	CADMIUM	MilliGram	